

Appendix 45

Meadowbank and Whale Tail 2018 Wildlife Monitoring Summary Report



MEADOWBANK MINE

2018 WILDLIFE MONITORING SUMMARY REPORT

FINAL

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SECTION 1 • EXECUTIVE SUMMARY

As a requirement of the NIRB Project Certificate, the 2018 Wildlife Monitoring Summary Report represents the 13th of a series of annual Wildlife Monitoring Summary Reports for the Agnico Eagle Mines Ltd. (Agnico Eagle) Meadowbank Mine (the project). Baseline and monitoring programs were first initiated in 1999 and will continue throughout the life of the mine. Details of the wildlife monitoring program for the project are provided in the Terrestrial Ecosystem Management Plan (Agnico Eagle 2018). The 2018 report provides the objectives, methodology, historical and current year results, and management recommendations for each monitoring program. The 2018 Wildlife Monitoring Summary Report builds on data presented in previous reports and incorporates monitoring recommendations from these reports.

A habitat analysis was completed for the first time since 2014. The approach taken in 2018 varied from previous years where habitat losses were compared to values predicted in the EIA and subsequent extensions. Given the difficulty in tracking approved extensions, additions, and mine plan changes, habitat losses were instead compared to habitat availability within permitted areas. A thorough analysis of habitat losses for the Meadowbank and Whale Tail areas found that losses were well within overall habitats in permitted areas. As well, for wildlife Valued Ecosystem Components, high suitability habitat losses were substantially lower than was available within permitted areas.

Seven active Peregrine Falcon (*Falco peregrinus*) nests were observed and monitored at quarry sites along the AWAR in 2018, with successful nesting confirmed at three nests. No raptor nests were monitored along the Whale Tail Haul Road or in the vicinity of the Whale Tail Pit in 2018. Raptor nest management plans were not warranted at any of the active nest sites as no project-related effects on raptor nesting success were observed.

The GN Caribou (*Rangifer tarandus*) collaring program, ongoing for the past 11 years in the Baker Lake area, continued in 2018 with monitoring of existing collared animals. Seasonal Caribou movements within and adjacent to the Meadowbank Regional Study Area (RSA) were tracked and mapped throughout the year. Collared Caribou were present throughout the year but particularly during spring migration (i.e., April and May). Additional collars were deployed for Baker Lake animals in 2018 and by the end of the year, 40 collars from three deployments remained active.

A Hunter Harvest Study (HHS) was conducted from 2007 to 2015, but the program was suspended following declining participation and difficulty in interpreting limited hunting data. In 2016 and 2017, Agnico Eagle, the HTO, KivIA, GN, and other agencies met to discuss the HHS, and in early 2019 the study was relaunched. Results from 2019 will be summarized in next year's annual report.

Numerous road closures were implemented on all project roads, particularly in April and May, to ensure safe passage to migrating Caribou herds. No Caribou fatalities occurred because of activities at the mine or along project roads. With the Authorization of the GN officer, one Wolverine (*Gulo gulo*) and one Wolf (*Canis lupus*) needed to be euthanized after attempts to deter the animals were unsuccessful. In general, improved food-handling practices and employee awareness programs at the mine site have helped prevent mine-related Predatory Mammal fatalities.

SECTION 2 • OVERVIEW

2.1 BACKGROUND

The Agnico Eagle Mines Ltd. (Agnico Eagle) Meadowbank Mine (the project), located in the Kivalliq Region of Nunavut (**Figures 2.1** and **2.2**), received a Project Certificate No. 004 from the Nunavut Impact Review Board (NIRB) in 2006. The subsequent Water License, GN and CIRNAC Land Lease, and KIA Land Use Production Lease, allowed for the construction of a gold mine and ancillary facilities including an All-Weather Access Road (AWAR), barge unloading facilities, lay-down area, and a fuel tank farm near the Hamlet of Baker Lake. The Whale Tail Pit Project, an extension of the Meadowbank Mine, received a Project Certificate No. 008 from NIRB in 2018. The Project Certificates, and subsequent Water License and land leases, allowed development of five gold deposits in the 10 years since the start of operations at Meadowbank and the first phase of the Whale Tail satellite deposit including construction of the Whale Tail Haul Road.

Up to 2017, annual reports were based on the Terrestrial Ecosystem Management Plan (TEMP) developed by Cumberland Resources (Cumberland 2006). The TEMP was a requirement of the Meadowbank Project Certificate No. 004, Condition 54 and Whale Tail Pit Project Certificate No. 008, Condition 28. In 2018, the TEMP was revised to incorporate the Whale Tail component of the project, and to reflect changes in management and monitoring approaches since 2006 (Agnico Eagle 2018). The revised TEMP also benefitted from collaborative input from the Government of Nunavut Department of Environment (GN), the Kivalliq Inuit Association (KivIA), and the Hunters and Trappers Organization (HTO) of Baker Lake through annual report reviews, technical reviews, workshops, and discussions within the Terrestrial Advisory Group (TAG). The 2018 revised TEMP provides the basis for the 2018 annual report. The scope of the TEMP is to report on monitoring of the mine during construction, operation, maintenance, reclamation, and closure.

This annual report includes data collected in 2018, the ninth year of operation, and is the 13th of a series of annual Wildlife Monitoring Summary Reports for the project. The purpose of this report is to summarize 2018 data collected from wildlife monitoring programs, and to describe natural variation and potential mine-related changes in wildlife populations within and adjacent to the Meadowbank Gold Mine. The 2018 report describes monitoring objectives and methodology, historical and current year results, mitigation activities, and management recommendations based on 2018 monitoring results.

2.2 PROJECT DESCRIPTION;

The Meadowbank Gold Mine, with an expected operating life of about nine (9) years (or until Q3, 2019), is located approximately 90 km north of the Hamlet of Baker Lake, while the Whale Tail Pit extension, with an expected operating life of seven years (2019 to 2025), is located approximately 180 km to the north of the Hamlet. The Whale Tail Pit extension is a proposed open-pit mine mined by truck-and-shovel operation and will produce 19 M tons of ore. The project is 300 km inland from the northwest coast of Hudson Bay and is above the tree line near the Arctic Circle. The local physiography is characterized by numerous lakes and low, rolling hills covered mainly by lichen/rock complexes, and heath tundra.

**Figure 2.1:
Meadowbank Mine
Project Location Map**

Legend

- Capital City
- Towns/Villages
- Rivers
- Water
- National Parks

Data Sources:
Natural Resources Canada
Geological Survey of Canada
Caslys Consulting Ltd.



Prepared for:



AGNICO EAGLE

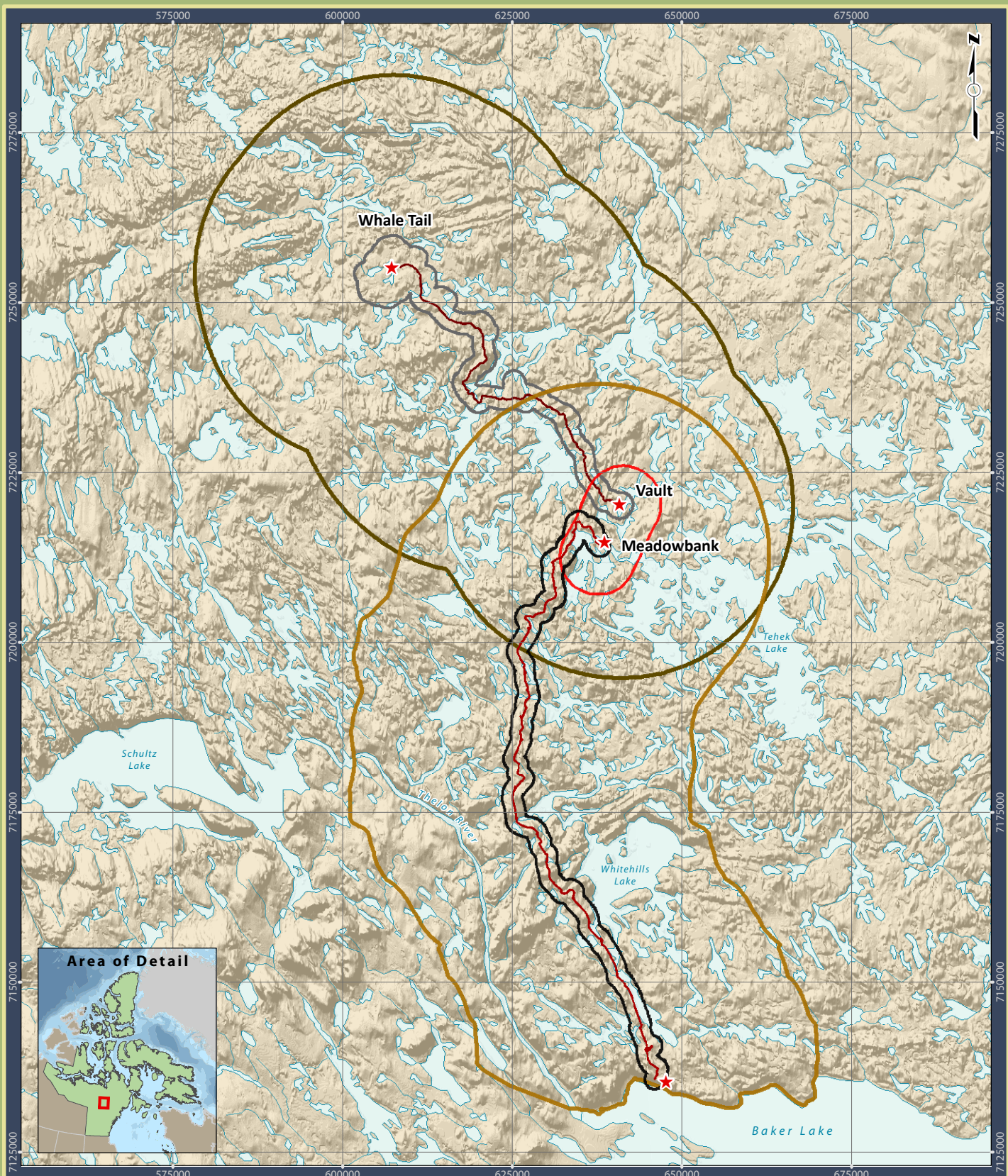


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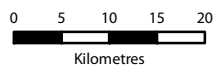


**CASLYS
CONSULTING**



Legend

- All-Weather Access Road
- Whale Tail Haul Road
- Meadowbank All-Weather Access Road Local Study Area (LSA)
- Meadowbank Local Study Area (LSA)
- Meadowbank Regional Study Area (RSA)
- Whale Tail Pit and Haul Road Local Study Area (LSA)
- Whale Tail Pit and Haul Road Regional Study Area (RSA)



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 2.2: Overview of Boundaries for Meadowbank Mine Monitoring Studies

Meadowbank Gold Project

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By:



2018 WILDLIFE MONITORING SUMMARY

Environmental baseline studies were conducted in the project area prior to Meadowbank and Whale Tail mine approvals and integrated into project designs according to the Cumberland (2006) and Agnico Eagle (2018) TEMPs. Wildlife Valued Ecosystem Components (VECs) for the Meadowbank project were identified in consultation with regulatory agencies and Baker Lake residents, and considered criteria such as conservation status, relative abundance within the Project study area, importance in subsistence lifestyle and economy, importance in predator-prey systems, habitat requirement size and sensitivity, and contribution to local area concerns. Based on these selection criteria, key terrestrial VECs determined for the Meadowbank project were Wildlife Habitat, Ungulates, Predatory Mammals, Small Mammals, Raptors, Waterbirds, and Upland Breeding Birds. Because of limited evidence that Small Mammals were affected by the project, this VEC was not included in the Whale Tail extension project or revised TEMP. Further details can be found in the Final Environmental Impact Statements for the Meadowbank Project (Cumberland 2005) and the Whale Tail Pit (Golder 2016).

Construction of a 106.8 km All-Weather Access Road (AWAR) between the Hamlet of Baker Lake, the nearest community, and the Meadowbank mine was completed in March 2008 and provides mine site access and re-supply, while on-site mine haul and access roads connect open pit areas to ancillary facilities. Meadowbank mine site facilities include a mill, power plant, maintenance facilities, tank farm for fuel storage, water treatment plant, sewage treatment plant, airstrip, and accommodations. Mine components include open pits, waste rock storage facilities, and a tailings storage facility.

In 2008, construction of the AWAR and numerous camp infrastructure facilities were completed, while in 2009, principal mine site construction commenced. Mine operation commenced in early 2010. Goose Pit was completely depleted in 2015 while Agnico Eagle continued ongoing mining operations at Portage and Vault pits and investigated expansion of the Vault area into Phaser Lake. In 2018, an expansion was done in pit E (Portage) to extend mining and mill feed to bridge the gap between the end of mining activities in Meadowbank and the start of mining activities at Whale Tail Pit. As a result, mining activities at Meadowbank in 2018 were only ongoing in Pit E and are expected to be depleted by Q3, 2019. The Vault pit continued to be exploited in 2018 and is expected to be completed in Q1, 2019. The dewatering of Phaser Lake occurred during summer 2016 in preparation for mining activity in Phaser and BB Phaser Pit. Phaser Pit mining activities were completed in Q4, 2018 while BB Phaser mining began in early 2018 and is scheduled to be completed in Q3, 2019.

To extend mine operations and milling at Meadowbank Mine, Agnico Eagle is developing the Whale Tail Pit and Haul Road Project, approximately 55 km north of the Meadowbank mine, on a satellite deposit located on the Amaruq property in the Kivalliq Region of Nunavut. The Amaruq Exploration Access Road (AEAR) was built in 2016 and 2017 to access the Amaruq exploration site from the Meadowbank complex. The AEAR was modified into the Whale Tail Haul Road (enlargement) following regulatory approval and was completed in 2018. Construction along the Haul Road in 2018 included drilling and blasting to prepare rock fill, culvert installation, bridge construction, and rock fill. Construction activities at the Whale Tail site in 2018 included the Whale Tail Dike construction, which will allow for Whale Tail Lake North Basin dewatering in Q1, 2019, the pre-stripping of future Whale Tail Pit, and the construction of major infrastructures including the permanent camp, with accommodation and kitchen facilities for approximately 400 people, sewage treatment plan, tank farm for fuel storage, and freshwater intake. A conventional open pit mining operation is proposed on the Whale Tail deposit with commercial production beginning in Q3, 2019.

2.3 STUDY AREA BOUNDARIES

2.3.1 Meadowbank Mine, Vault Pit and AWAR

The Meadowbank Mine Local Study Area (LSA) includes a 5 km radius area centred on the Mine Site and a 5 km radius around the Vault Site creating an elliptical shape with a total area of 194 km². The AWAR LSA consists of a 3 km wide corridor centred on the AWAR between Baker Lake and the Meadowbank Mine. The Regional Study Area (RSA) encompasses an area that includes a 25 km radius area around the Main and Vault sites and a 50 km wide corridor along the AWAR for a total area of 5,106 km² (Figure 2.3).

2.3.2 Whale Tail Pit and Haul Road

The Whale Tail LSA is a 3 km corridor centered on the Whale Tail Haul Road and borrow site access roads (i.e., 1.5 km on either side of the road and 1.5 km around borrow areas) and includes an approximate 1.5 km buffer around development areas at the Whale Tail Pit area, for a total area of 282 km². The Whale Tail RSA is a 50 km corridor centred on the Haul Road alignment (i.e., 25 km on either side of the Haul Road and borrow site access roads, and 25 km around borrow areas), with a total area of 5,017 km² (Figure 2.4).






2.4 MONITORING APPROACH

Wildlife monitoring is an essential tool in protecting and maintaining wildlife occurring near the project. A comprehensive monitoring strategy, along with quantitative monitoring indicators, has been implemented and, as required, is adapted to evaluate the accuracy of impact predictions and to meet the objectives of the management strategy set out in the TEMP (Agnico Eagle 2018). Monitoring programs evaluate the effectiveness of mitigation measures and assess mine-related impact predictions. For all wildlife monitoring programs there is a certain level of uncertainty or unpredictability; therefore, residual effects identified during monitoring may require implementation of adaptive management strategies. Adaptive management is an ongoing process that evolves throughout the life of the project as better and more effective ideas are introduced in a process that is designed to be continually improving. Ongoing review of the TEMP and annual Wildlife Monitoring Summary Reports (which provide results of TEMP monitoring programs) by regulatory agencies, technical reviewers, and stakeholders will further ensure that local and regional concerns have been adequately addressed.

Environmental staff monitor wildlife near mine facilities (i.e., Meadowbank Mine and Whale Tail Pit) and along the AWAR, Vault Haul Road, and Whale Tail Haul Road on a regular basis (discussed in detail in Sections 3 and 4). Where unacceptable risks to wildlife are observed, mitigation measures are implemented to avert animals from site activities in accordance with the TEMP (Agnico Eagle 2018). Detailed reporting protocols (e.g., a dangerous animal occurrence, monthly wildlife reports submitted to the GN, road closure notification to GN, KIA, HTO, etc.) are established and implemented by on-site environmental staff. During these events, Agnico Eagle representatives communicate any issues directly with the GN Department of Environment (DoE) Conservation Officer, KIA, and the local HTO.



Legend

-  All-Weather Access Road
-  Whale Tail Haul Road
-  Meadowbank All-Weather Access Road Local Study Area (LSA)
-  Meadowbank Local Study Area (LSA)
-  Meadowbank Regional Study Area (RSA)



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 2.3: RSA and LSA Boundaries for the Meadowbank Mine and AWAR

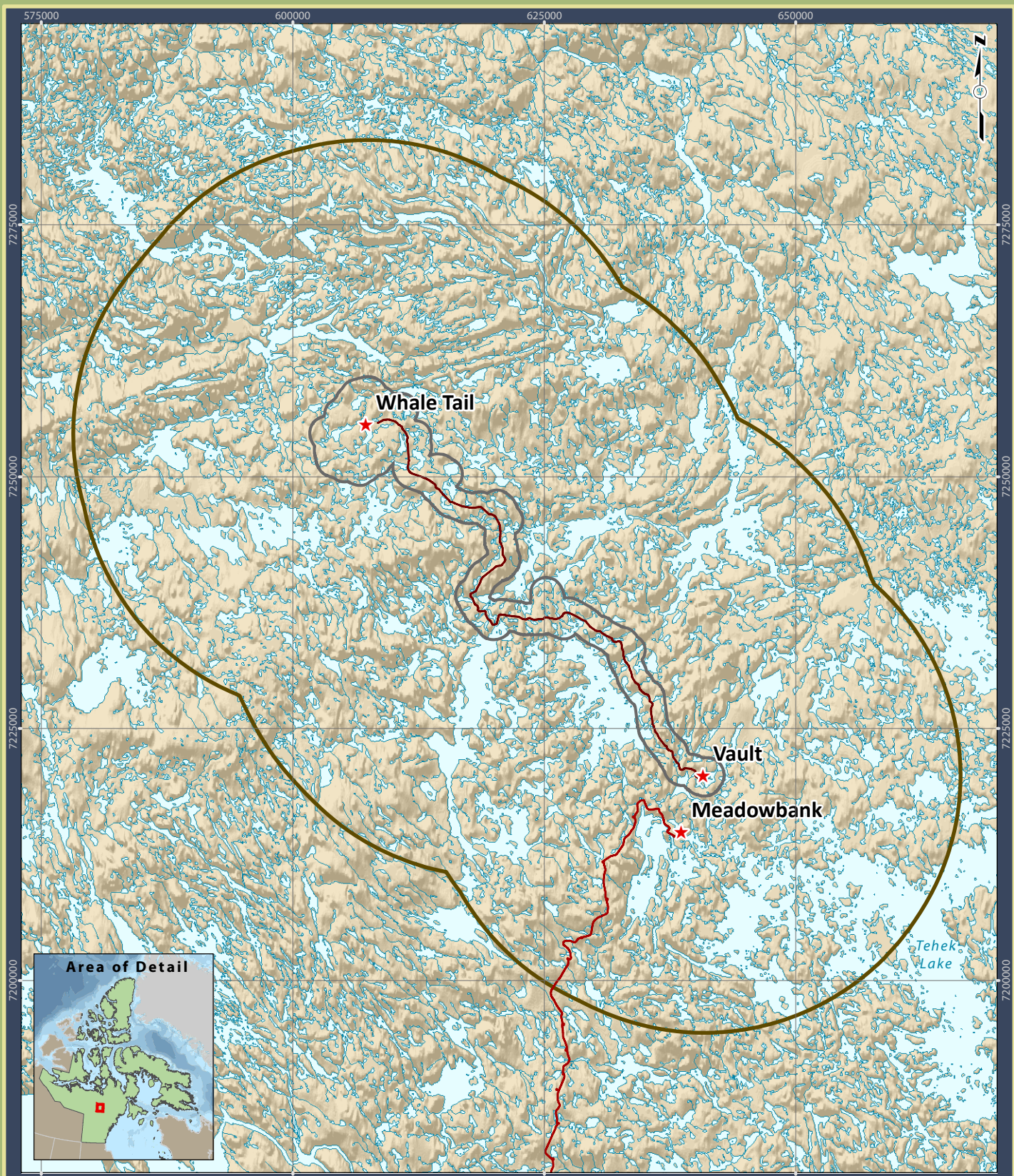
Meadowbank Gold Project

Prepared for:



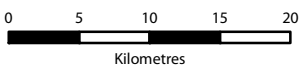
By:





Legend

- All-Weather Access Road
- Whale Tail Haul Road
- Whale Tail Pit and Haul Road Local Study Area (LSA)
- Whale Tail Pit and Haul Road Regional Study Area (RSA)



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 2.4: RSA and LSA Boundaries for the Whale Tail Pit and Haul Road

Meadowbank Gold Project

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2.5 REPORT OBJECTIVES

The primary objectives of the 2018 Wildlife Monitoring Summary Report are to:

- Report the results of the 2018 wildlife monitoring programs;
- Summarize the monitoring strategy implemented over the course of the year;
- Evaluate the function and validity of implemented monitoring strategies;
- Summarize adaptive management strategies;
- Provide management recommendations for 2019; and
- Allow regulators to contribute advice for improving wildlife management.

2.6 INUIT INVOLVEMENT

Since 1999, local Inuit from the Hamlet of Baker Lake have been involved in all wildlife-related baseline and monitoring surveys. A summary of the various programs and the average number of Inuit involved since 1999 is provided in **Table 2.1**. As required by the IIBA, “Anything done by Agnico in order to implement the TEMP [...] shall incorporate Inuit Qaujimanituqagit”; therefore, traditional knowledge or IQ has been incorporated in this annual report.

Table 2.1: Inuit Involvement in Baseline and Monitoring Programs for the Meadowbank Mine.

Survey Description	Years Conducted (# of Years)	Average # of Inuit Involved
RSA Aerial Survey	1999, 2002 to 2008 (8) – discontinued	2
LSA Aerial Survey	1999, 2002 to 2008 (8) – discontinued	2
Breeding Bird Plots	2003 to 2012; 2015 (11)	2 to 3
Breeding Bird Transects	2005 to 2011; 2015 (8) - discontinued	2
Waterfowl Nest Surveys	2004 to 2012 (9) - discontinued	3
Whale Tail Waterbird Nest Surveys	2018 (1)	2
Raptor Nest Surveys	2004 to 2007, 2010 to 2018 (13)	3 to 4
AWAR Ground Surveys	2004 to 2018 (15)	2 to 3
Vault Haul Road Surveys	2017 to 2018 (2)	1 to 2
Whale Tail Haul Road Surveys	2018 (1)	1 to 2
Height of Land Surveys	2018 (1)	1 to 2
Habitat Mapping	2004 to 2005, 2010, 2012, 2014, 2017, 2018 (7)	1
Phenology Plots	2003 to 2005 (3) - discontinued	2

2.7 TERRESTRIAL ADVISORY GROUP

As per Project Certificate No.008, Condition 27 of the Whale Tail Pit Final Environmental Impact Statement (EIS) Addendum (Golder 2016), Agnico Eagle is committed to establishing a Terrestrial Advisory Group (TAG) consisting of representatives from the following organizations at a minimum; Agnico Eagle, the Government of Nunavut Department of Environment (GN-DoE), the Kivalliq Inuit Association (KivIA), and the Baker Lake Hunters and Trappers Organization (HTO).

An MOU is currently being developed and will likely be signed by all parties in early 2019. Agnico Eagle will provide a summary of TAG meeting outcomes to the NIRB in the annual report beginning in 2019.

The purpose of the TAG is to:

- Measure the relevant environmental effects of the project on terrestrial wildlife;
- Confirm that the project is being carried out within the terms and conditions of the project certificate relating to the protection of terrestrial wildlife;
- Assess the accuracy of the predictions contained in the final environmental impact statement filed by Agnico Eagle with NIRB in respect of the project;
- Identify and select appropriate target species, indicators and linkages for monitoring;
- Evaluate the effectiveness of mitigation measures and to support any required improvement of those measures;
- Identify any unforeseen environmental effects caused by the project;
- Provide an early warning mechanism to identify any environmental effects caused by the project; and
- Determine and identify any cause-and-effect interactions between the project and the environment.

2.8 MITIGATION AUDIT

An annual mitigation audit is a new requirement outlined in the 2018 TEMP. Mitigation approaches stem from current practices at existing mines or were suggested during the environmental assessment process; however, an auditing system is required to evaluate the use and effectiveness of the mitigation, following principals of adaptive management, and to identify additional mitigation measures as required. The audit is to be undertaken annually and summarized in the annual report, and will focus specifically on mitigation listed in Section 2 of the June 2018 TEMP. The audit will evaluate:

- If all mitigation has been implemented;
- Which mitigation is perceived to be or shown to be successful;
- If new mitigation has been implemented in response to new issues; and
- If some mitigation is redundant.

The first mitigation audit will be conducted at the end of 2019 and a summary will be included in the 2019 Wildlife Monitoring Summary Report.

SECTION 3 • ROAD SURVEYS

3.1 OVERVIEW

A systematic ground survey monitoring program for the AWAR, and Vault and Whale Tail haul roads has been designed to evaluate sensory disturbance for wildlife, particularly Caribou (*Rangifer tarandus*), Muskoxen (*Ovibos moschatus*), and Predatory Mammals utilizing habitats adjacent to the roads. The program also monitors mortality of species utilizing habitats near the roads.

3.2 OBJECTIVES

The primary objectives of the road ground survey monitoring program are to:

1. Document wildlife utilization along the AWAR, Vault Haul Road, and Whale Tail Haul Road corridors;
2. Evaluate wildlife trends along the road corridors, including identifying areas where higher densities of wildlife are observed. Evaluate whether road-related operations preclude Caribou from using suitable habitats beyond 1,000 m. The threshold level along the roads is unnatural Caribou use patterns beyond 1,000 m;
3. Assess the need for adaptive mitigation, such as temporary road closures during peak Caribou migration periods;
4. Ensure that mortality thresholds for wildlife are not exceeded;
5. Confirm that Caribou are not killed through road-related mortality. The project-wide threshold mortality level for Ungulates is two (2) individuals per year (as per TEMP 2018); and
6. Confirm that Predatory Mammals are not killed through road-related mortality. The project-wide threshold mortality level for Predatory Mammals is two (2) individuals per year (as per TEMP 2018)

3.3 DURATION

The AWAR, Vault Haul Road, and Whale Tail Haul Road systematic ground surveys are ongoing over the operation phase of the mine and are scheduled to be conducted a minimum of once per week throughout the year, twice per week during Caribou migration (i.e., contingent on weather, road access and personnel availability), and every two days if Caribou presence triggers are surpassed (see Figures 7 and 8 in 2018 TEMP). Agnico Eagle is committed to conducting a minimum of approximately 75 road surveys per year along the AWAR and Whale Tail Haul Road. The number of surveys along the Vault Haul Road is contingent on whether Caribou have been sighted in the area during mine site ground surveys or are known to be in the area based on collaring data. Monitoring of vehicle collisions and wildlife mortality is continual along all road segments.

3.4 METHODOLOGY

Road surveys were expanded beyond the AWAR to include the recently completed Vault Haul Road, beginning in 2017, and the Whale Tail Haul Road, beginning in 2018. For the Whale Tail Haul Road, Agnico Eagle has signed an MOU with the Baker Lake HTO for a wildlife monitor on the road beginning in October 2018 (see **Appendix H** for MOU).

The survey team typically includes two observers (one can be the driver) in a vehicle. The terrain on both sides of the road (to a maximum horizontal distance of approximately 1 km perpendicular from the road edge) is surveyed as the vehicle progresses at a maximum speed of 30 km per hour. For each sighting, the vehicle is safely parked in a road pullout and UTM coordinates are recorded along with the estimated distance of the animal(s) from the road, nearest road marker, species, number, and a variety of other information (e.g., behavior). Where animals are sighted close to roads and a risk of collision with vehicles is possible, the environmental monitor reports the number of animals, location, and direction of travel to the mine radio dispatcher who informs all vehicle operators. In addition, all vehicle operators report Ungulates and Predatory Mammals seen along the road to the dispatcher.

Regular data provided to mine site personnel from the Caribou satellite-collaring program (**Section 6**) are also used to track Caribou movement and potential migration towards the roads and mine facilities.

3.5 HISTORICAL RESULTS

Ground surveys commenced shortly following the onset of AWAR construction (2007). Sampling intensity has been comparable along the entire length of the AWAR since 2009. Surveys along the Vault Haul Road have been irregular since its completion but were included as part of regular AWAR surveys in 2016 and conducted separately beginning in 2017. Over the past 12 years (to 2018), surveys have been completed along the AWAR every 3.9 to 6.1 days (5.0 days in 2018) (see **Table 3.1**). Surveys for the past two years at the Vault Haul Road have been completed every 7.2 to 15.8 days (**Table 3.2**). Surveys along the Whale Tail Haul Road were initiated in 2018; therefore, data is described in the following section.

3.6 2018 RESULTS

3.6.1 Wildlife Species Encountered

Mammal species identified and observed during AWAR, Vault Haul Road, and Whale Tail Haul Road surveys in 2018 included Arctic Fox (*Vulpes lagopus*), Arctic Ground Squirrel (*Spermophilus parryii*), Arctic Hare (*Lepus arcticus*), Caribou, Muskox, Wolf (*Canis lupus*), and Wolverine (*Gulo gulo*). Bird species observed included Bald Eagle (*Haliaeetus leucocephalus*), Cackling Goose (*Branta hutchinsii*), Canada Goose (*Branta canadensis*), Common Loon (*Gavia immer*), Common Raven (*Corvus corax*), Herring Gull (*Larus argentatus*), Horned Lark (*Eremophila alpestris*), jaeger (*Stercorarius* sp.), Lapland Longspur (*Calcarius lapponicus*), Long-tailed Duck (*Clangula hyemalis*), Northern Pintail (*Anas acuta*), Peregrine Falcon (*Falco peregrinus*), ptarmigan (*Lagopus* sp.), Rock Ptarmigan (*Lagopus muta*), raptor, Rough-legged Hawk (*Buteo lagopus*), Sandhill Crane (*Grus canadensis*), Snow Goose (*Anser caerulescens*), and Snowy Owl (*Bubo scandiacus*).

3.6.2 AWAR Surveys

The number of AWAR surveys completed each season in 2018 is provided in **Table 3.1**. The number of systematic road surveys completed in 2018 (n=72) is just below the annual average of 73 surveys over the previous 11 years and the annual goal of 75 surveys. Surveys were conducted on average every 5.0 days over the course of the year. Survey frequency was highest in September (n=9) and October (n=8). Raw road survey data are provided in **Appendix A**.

Cumulative Caribou density along the AWAR for 2018 (all seasons) is provided in **Figure 3.1**. The highest Caribou densities in 2018 were observed around the Whitehills Lake area (between Km 15 and 37) and along a broad band further north between Km 48 and Km 89. Lower densities were recorded at the northern and southern ends of the AWAR in 2018.

The 2018 Caribou occurrence data were added to the 2008 to 2017 datasets with the resulting cumulative Caribou numbers presented in **Figure 3.2**. These data illustrate that for over 10 years of surveys, the highest cumulative Caribou abundances along the AWAR continue to be in areas closest to the Hamlet of Baker Lake, from Km 0 to Km 10 (cumulative density of 1,709 to 1,559 Caribou/km), and south of Whitehills Lake between Km 25 and Km 30 (2,032 Caribou/km). High Caribou abundances were also observed from Km 15 to 20 (1,253 Caribou/km), Km 50 to Km 55 (1,450 Caribou/km), and Km 70 to Km 75 (1,388 Caribou/km). The 2018 data do not consistently follow this pattern. Higher densities were not observed in the immediate vicinity of Baker Lake, while higher densities were observed across a long band further north of Whitehills Lake (see **Figures 3.1** and **3.2**). High densities in the Whitehills Lake area was consistent between 2018 and the cumulative data set.

In 2018, Caribou numbers recorded on AWAR surveys were significantly higher than in 2016 and 2017 and comparable to numbers in 2014 and 2015 (**Figure 3.3**). The frequency of Caribou observed during AWAR surveys was fairly consistent through the year with lower numbers in midwinter and mid-summer (**Table 3.3**). The average number of Caribou observed per survey trip in April and May was the highest since surveys began indicating a strong spring migration through the study area (**Table 3.3**).

3.6.3 Vault Haul Road Surveys

The number of Vault Haul Road surveys completed each season in 2018 is provided in **Table 3.2**. The total number of surveys fluctuated from 47 surveys in 2017 (i.e., every 7.8 days) to 18 in 2018 (i.e., every 15.2 days). No surveys were conducted in the summer, a period of low Caribou activity (**Table 3.2**). The average number of Caribou observed along the Vault Road was significantly higher than in 2017 with the highest average numbers seen in April and September (**Table 3.4**). Raw road survey data are provided in **Appendix A**.

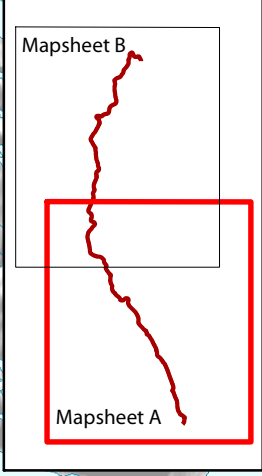
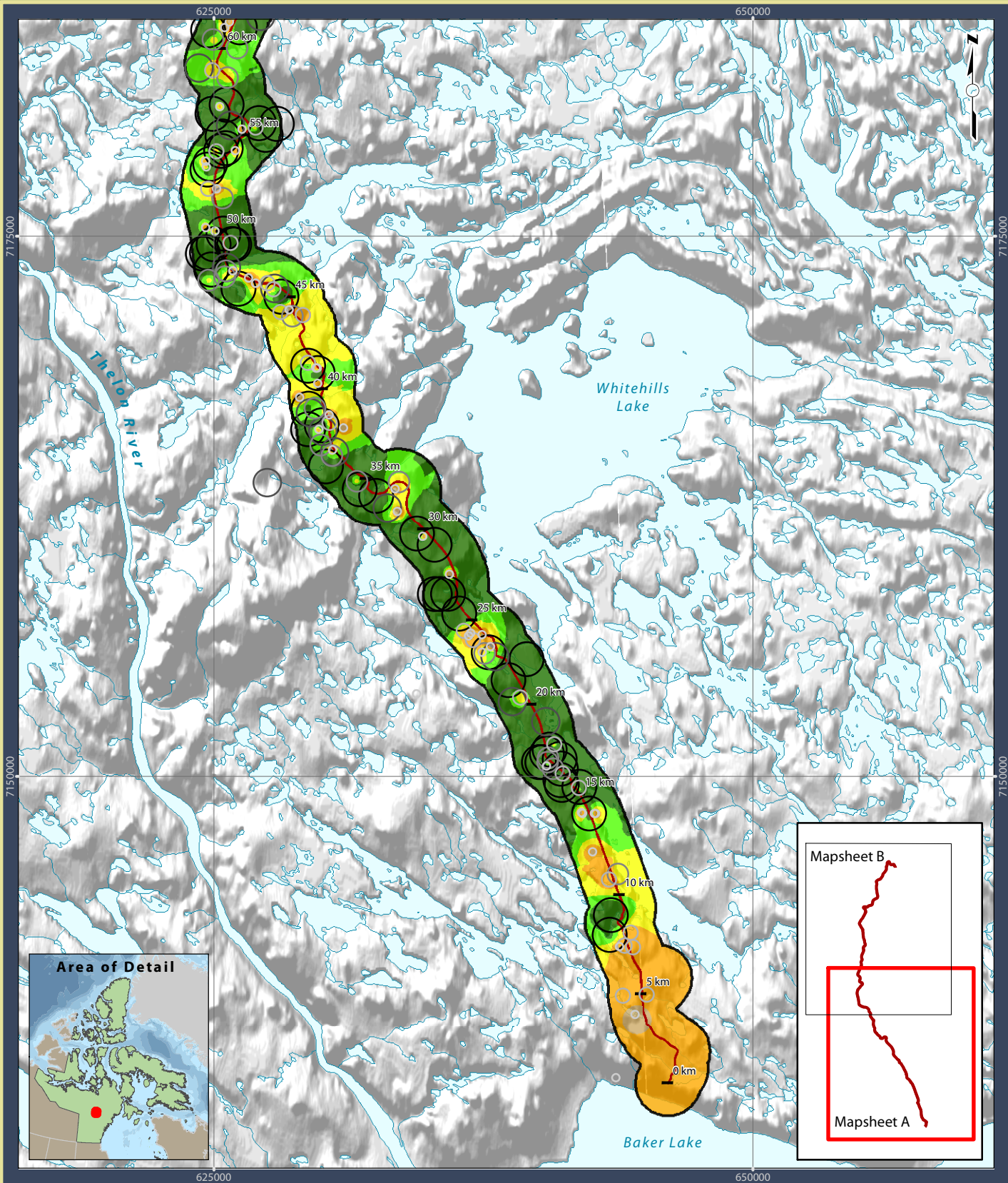
Table 3.1: Details of AWAR Wildlife Surveys from 2007 to 2018.

Season	Number of AWAR Surveys											
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*	2017	2018
Spring (April to May)	13	15	15	9	10	14	9	11	17	10	19	9
Summer (June to July)	24	7	10	9	9	13	13	7	16	14	16	12
Fall (August to September)	8	15	8	12	11	12	10	11	11	16	14	16
Winter (Jan to Mar, Oct to Dec)	33	57	25	36	33	38	31	38	32	38	36	35
Year End Total	78	94	58	66	63	77	63	67	76	78	85	72
Duration	1-Mar to 31-Dec	2-Jan to 29-Dec	9-Jan to 16-Dec	21-Jan to 17-Dec	10-Jan to 30-Dec	4-Jan to 29-Dec	2-Feb to 27-Dec	12-Jan to 30-Dec	3-Jan to 18-Dec	2-Jan to 27-Dec	3-Jan to 29-Dec	3-Jan to 29-Dec
Average Frequency of Surveys (over duration)*	4.1 days	3.9 days	6.1 days	5.6 days	6.0 days	4.7 days	6.0 days	5.5 days	4.7 days	4.7 days	4.3 days	5.0 days

* Frequency refers to the number of days between surveys, on average over the year

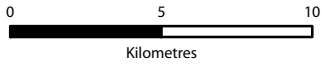
Table 3.2: Details of Vault Haul Road Wildlife Surveys from 2017 to 2018.

Season	Number of Vault Haul Road Surveys	
	2017	2018
Spring (April to May)	9	3
Summer (June to July)	7	0
Fall (August to September)	7	4
Winter (Jan to Mar, Oct to Dec)	24	11
Year End Total	47	18
Duration	3-Jan to 29-Dec	30-Jan to 16-Dec
Average Frequency of Surveys (over duration)	7.8 days	15.2 days



Legend

All-Weather Access Road	Caribou / Ha	Observation Counts
Whale Tail Haul Road	0	0 - 5
Meadowbank All-Weather Access Road Local Study Area (LSA)	1 - 5	6 - 10
	5 - 10	11 - 15
	10 - 15	16 - 20
	15 - 20	> 20
	> 20	> 20



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited
 Gebauer & Associates Ltd.

Figure 3.1: 2018 Ground Survey Observed Caribou Distribution within the LSA for the AWAR & Vault Haul Road - All Seasons (Map A)

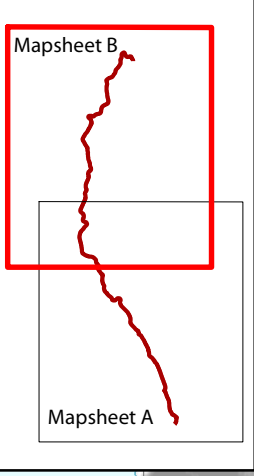
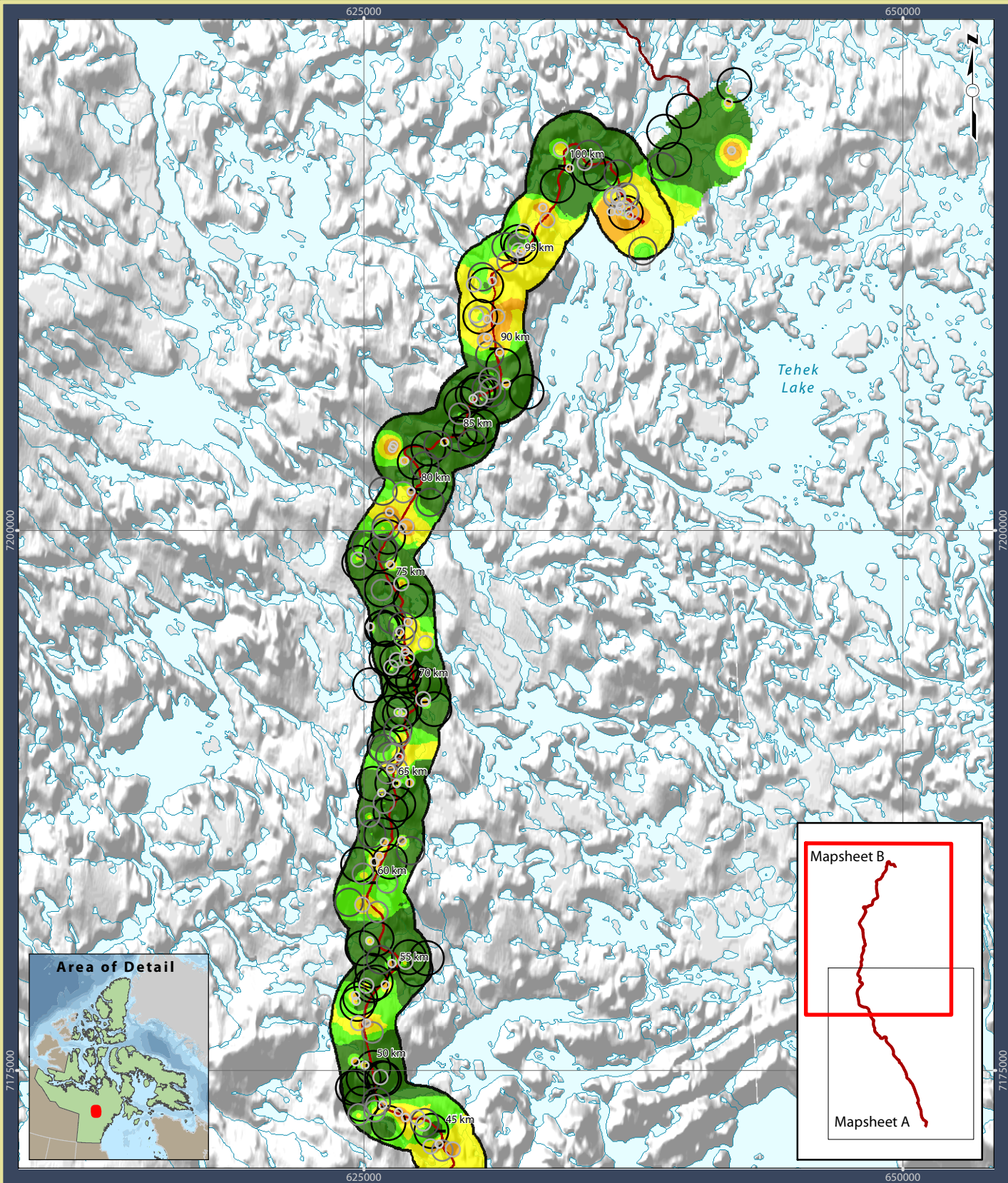
Meadowbank Gold Project

Prepared for:



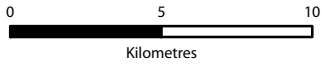
By:





Legend

All-Weather Access Road	Caribou / Ha	Observation Counts
Whale Tail Haul Road	0	0 - 5
Meadowbank All-Weather Access Road Local Study Area (LSA)	1 - 5	6 - 10
	5 - 10	11 - 15
	10 - 15	16 - 20
	15 - 20	> 20
	> 20	> 20



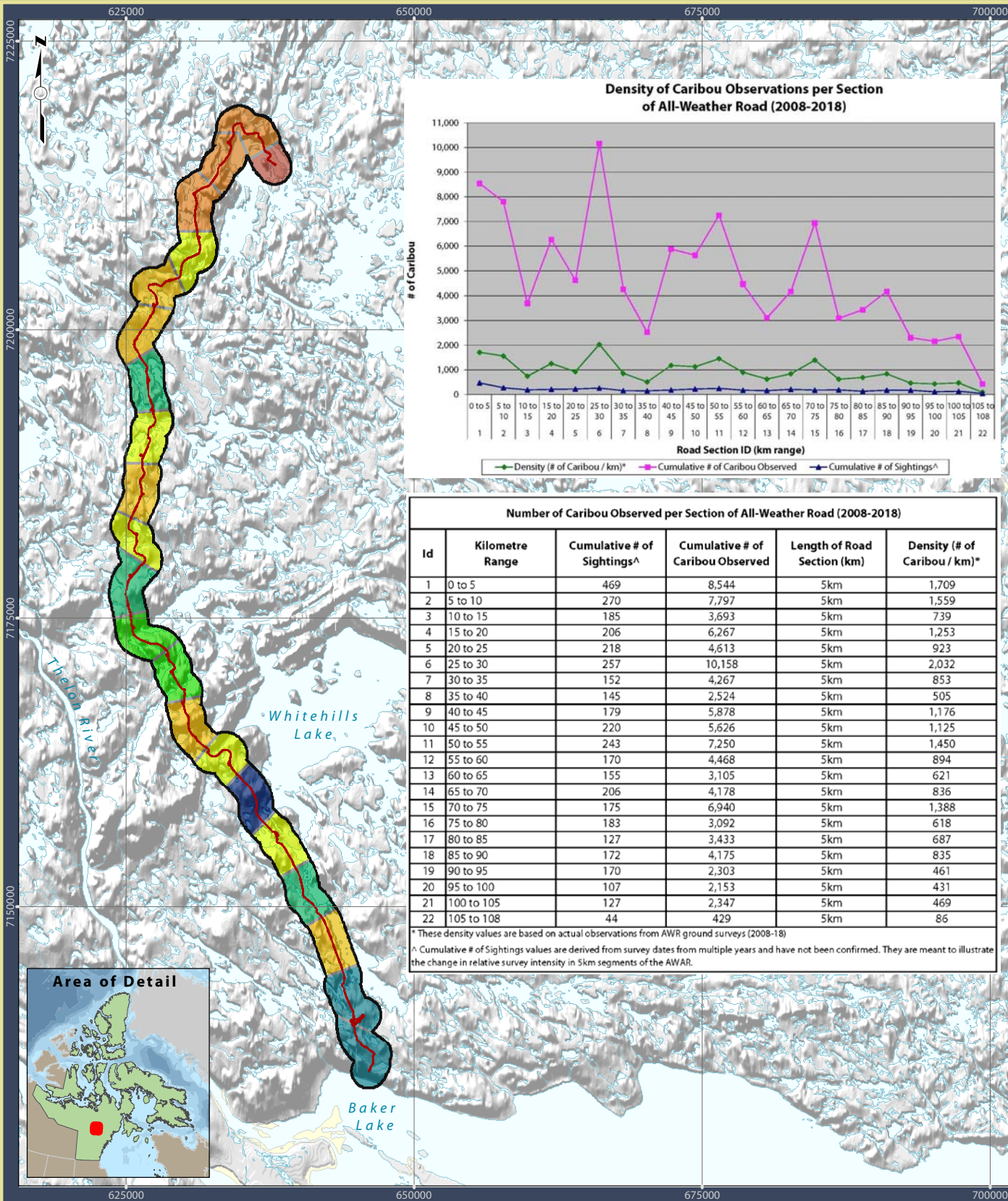
Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited
 Gebauer & Associates Ltd.

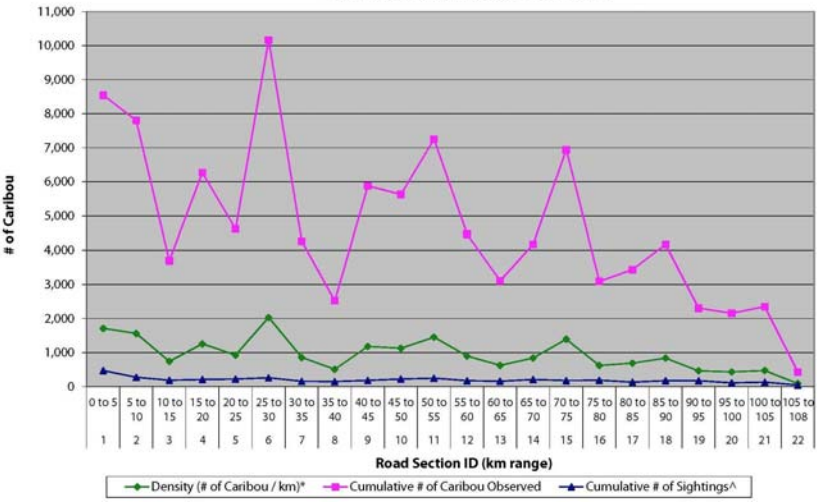
Figure 3.1: 2018 Ground Survey Observed Caribou Distribution within the LSA for the AWAR & Vault Haul Road - All Seasons (Map B)

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Prepared for: By:



Density of Caribou Observations per Section of All-Weather Road (2008-2018)



Id	Kilometre Range	Cumulative # of Sightings ^A	Cumulative # of Caribou Observed	Length of Road Section (km)	Density (# of Caribou / km)*
1	0 to 5	469	8,544	5km	1,709
2	5 to 10	270	7,797	5km	1,559
3	10 to 15	185	3,693	5km	739
4	15 to 20	206	6,267	5km	1,253
5	20 to 25	218	4,613	5km	923
6	25 to 30	257	10,158	5km	2,032
7	30 to 35	152	4,267	5km	853
8	35 to 40	145	2,524	5km	505
9	40 to 45	179	5,878	5km	1,176
10	45 to 50	220	5,626	5km	1,125
11	50 to 55	243	7,250	5km	1,450
12	55 to 60	170	4,468	5km	894
13	60 to 65	155	3,105	5km	621
14	65 to 70	206	4,178	5km	836
15	70 to 75	175	6,940	5km	1,388
16	75 to 80	183	3,092	5km	618
17	80 to 85	127	3,433	5km	687
18	85 to 90	172	4,175	5km	835
19	90 to 95	170	2,303	5km	461
20	95 to 100	107	2,153	5km	431
21	100 to 105	127	2,347	5km	469
22	105 to 108	44	429	5km	86

* These density values are based on actual observations from AWR ground surveys (2008-18)
^A Cumulative # of Sightings values are derived from survey dates from multiple years and have not been confirmed. They are meant to illustrate the change in relative survey intensity in 5km segments of the AWR.



Legend

- All-Weather Access Road
- Meadowbank All-Weather Access Road Local Study Area (LSA)

Caribou Density (per km of AWR)

21 - 250	1001 - 1250
251 - 500	1251 - 1500
501 - 750	1501 - 1750
751 - 1000	1751 - 2000

0 5 10 15
Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 3.2: Caribou Density along the AWR and Vault Haul Road (2008 to 2018)

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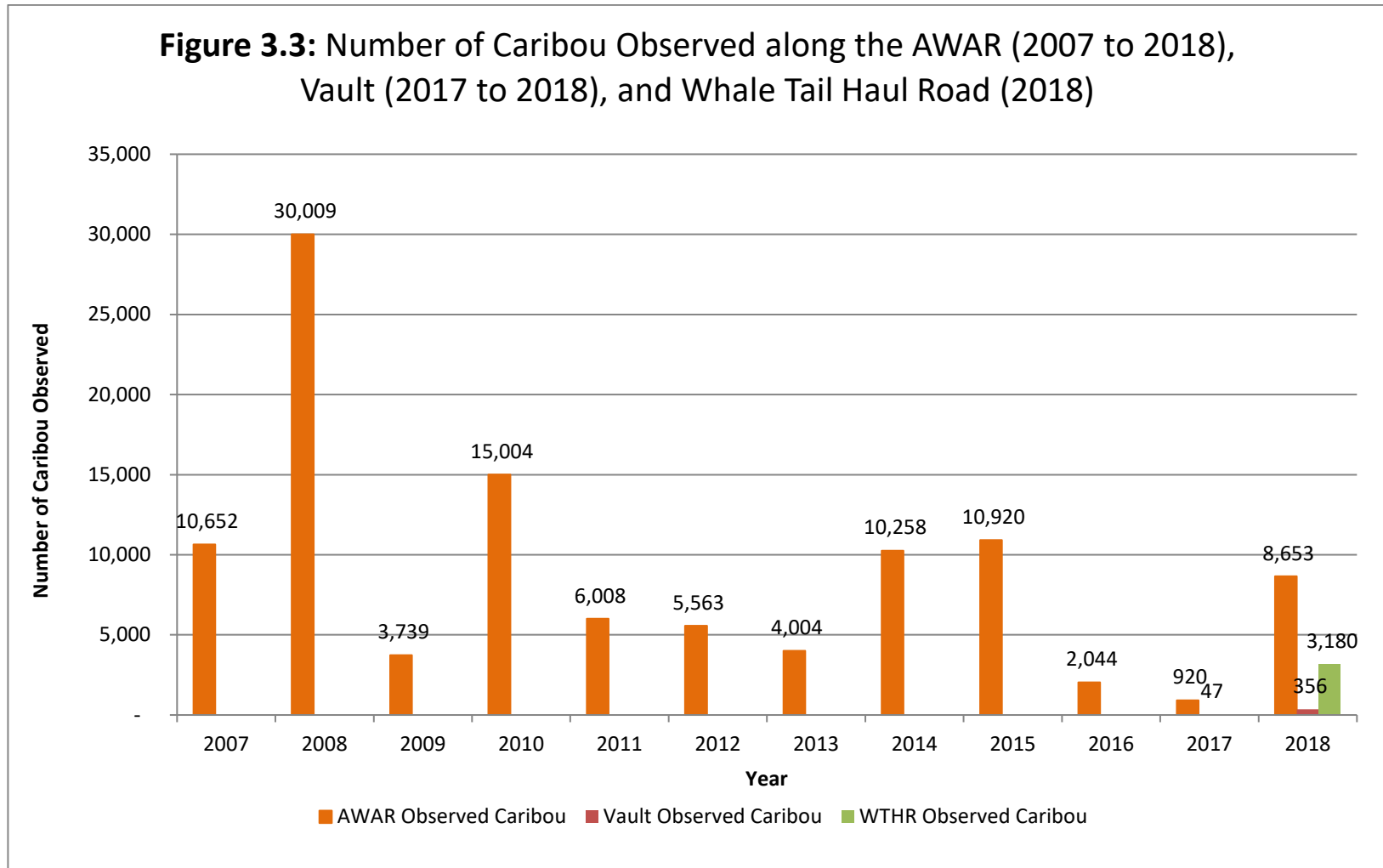


Table 3.3: Average Number of Caribou Observed Per Survey Trip along the AWAR from 2007 to 2018.

Month	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Average
January	0	14.3	12.0	5.3	3.0	5.1	0	3.2	5.8	3.7	8.0	6.4	5.6
February	0	11.5	10.7	4.1	1.0	5.3	68.1	10.5	7.0	2.3	0	12.3	11.1
March	11.4	11.4	16.7	6.7	6.0	6.0	39.8	10.5	14.4	6.0	3.5	14.4	12.2
April	14.0	12.7	11.4	10.8	34.0	15.2	0	27.2	22.4	23.8	4.0	51.4	18.9
May	15.4	12.1	13.0	18.0	25.3	14.2	11.0	8.4	14.1	13.2	0	27.7	14.4
June	7.1	3.5	8.2	9.0	12.5	3.1	5.3	1.5	6.3	6.9	1.0	12.3	6.4
July	1.5	13.3	0	1.1	1.0	0	0	0	2.0	0	0	1.0	1.7
August	1.1	5.4	3.6	5.6	63.0	1.0	1.0	1.0	3.0	2.7	3.4	23.4	9.5
September	10.8	12.5	8.5	4.8	10.3	1.0	6.5	33.1	12.3	3.3	5.3	23.7	11.0
October	18.4	44.3	25.4	197.2	71.6	60.0	6.0	101.8	41.5	73.0	63.3	38.8	61.8
November	72.4	90.7	13.0	106.0	2.3	116.5	455.2	48.4	148.9	2.0	12.6	40.6	92.4
December	18.4	10.3	11.0	7.9	7.8	169.7	16.8	17.6	275.0	15.7	5.4	1.0	46.4

Data show the average number of Caribou observed for a month of the year, including data from all surveys done that month. Data are based on the observed number, which might be more inaccurate for larger groups or groups that are further away. Data does not include Vault Haul Road survey data, which was initiated in 2017, as results would not be comparable across years.

Table 3.4: Average Number of Caribou Observed Per Survey Trip along the Vault Haul Road from 2017 to 2018.

Month	2017	2018
January	0	0
February	5	2
March	9	5
April	5	46.3
May	0	0
June	0	0
July	0	0
August	0	0
September	3	77
October	0	10
November	6	0
December	0	0

Data show the average number of caribou observed for a month of the year, including data from all surveys done that month. Data are based on the observed number, which might be more inaccurate for larger groups or groups that are further away.

3.6.4 Whale Tail Haul Road Surveys

The number of Whale Tail Haul Road surveys completed each season in 2018 is provided in **Table 3.5**. Surveys were conducted on average every 6.4 days from the beginning of the survey (19 April) to the end of the year). Survey frequency was highest in October (n=15) and November (n=11). The highest average numbers of Caribou were seen in April and October, which aligns with surveys results from the AWAR and the Vault Haul Road (**Table 3.6**). Raw road survey data are provided in **Appendix A**.

Table 3.5: Details of Whale Tail Haul Road Surveys in 2018.

Season	Number of Whale Tail Haul Road Surveys
	2018
Spring (April to May)	1
Summer (June to July)	1
Fall (August to September)	3
Winter (Jan to Mar, Oct to Dec)	36
Year End Total	41
Duration	19-Apr to 30-Dec
Average Frequency of Surveys (over duration)	6.4 days

Table 3.6: Average Number of Caribou Observed Per Survey Trip along the Whale Tail Haul Road in 2018.

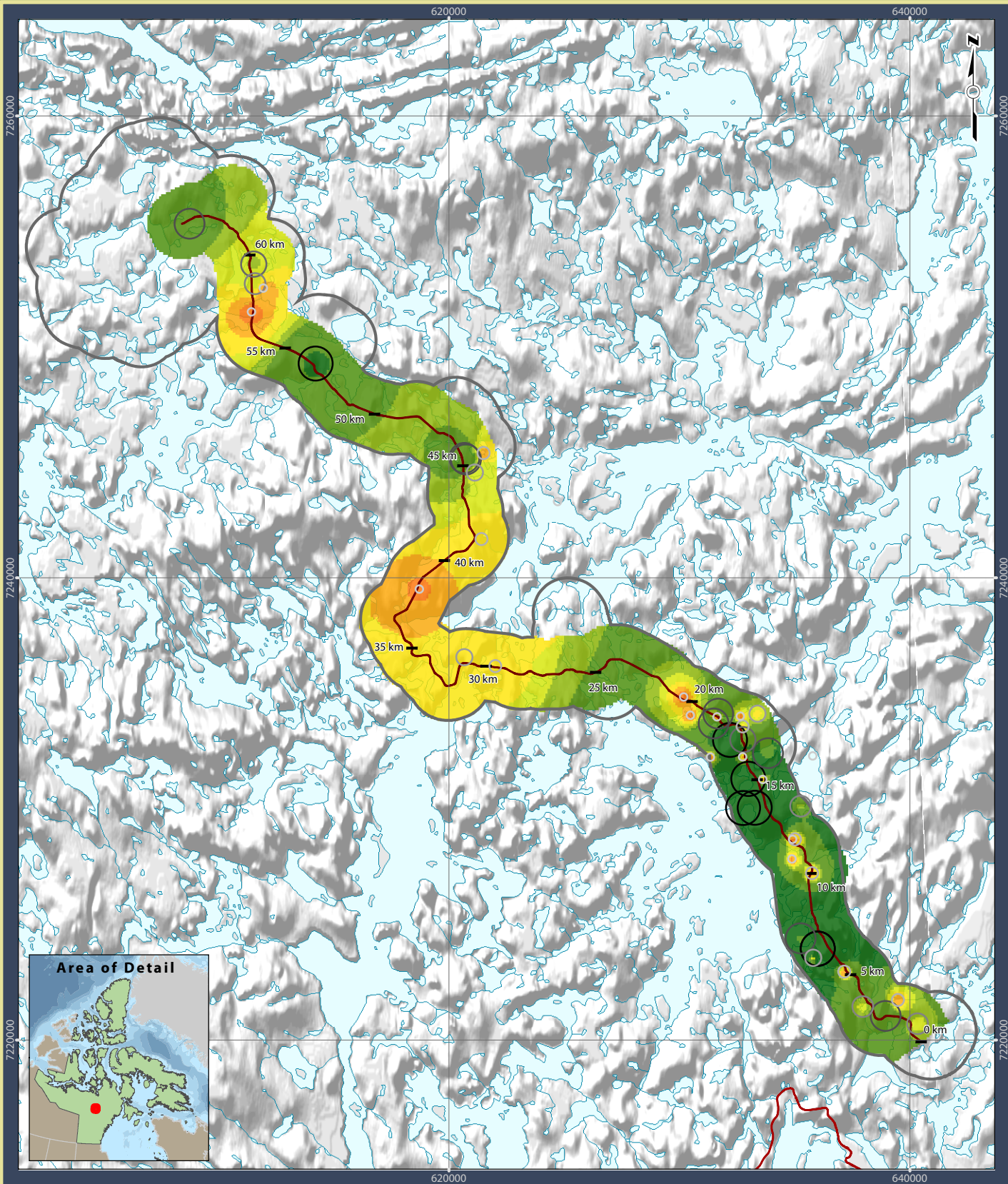
Month	2018
January	0
February	0
March	0
April	120.4
May	0
June	0
July	8.4
August	0
September	15.2
October	104.7
November	18.3
December	13.5

Data show the average number of caribou observed for a month of the year, including data from all surveys done that month. Data are based on the observed number, which might be more inaccurate for larger groups or groups that are further away

Cumulative Caribou density along the Whale Tail Haul Road for 2018 (all seasons) is provided in **Figure 3.4**. The highest Caribou densities in 2018 were observed between Km 5 and 19, and Km 50 and 55.

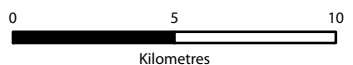
3.6.5 Road-related Mitigation

As in previous years, the security department assisted the environment department in preventing wildlife incidences along the AWAR, Vault Haul Road, and Whale Tail Haul Road by dispatching regular wildlife warnings based on observation and monitoring data. The road supervisors and operators also ensured protection of wildlife by assisting in surveillance and closing roads as needed (see **Appendix C**). Radio notices reminding operators of the appropriate speed limit were made frequently by dispatchers. During Caribou peak migration, notices were sent to all road occupants (**Appendix C**), regulatory agencies, local groups and wildlife consultants were notified, and road survey efforts were increased to every two days. A summary of Caribou and Muskox activity and road closure notices for each of the three primary road segments is provided below.



Legend

<ul style="list-style-type: none"> — All-Weather Access Road — Whale Tail Haul Road — Whale Tail Pit and Haul Road Local Study Area (LSA) 	<p>Caribou / Ha</p> <ul style="list-style-type: none"> 0 1 - 5 5 - 10 10 - 15 15 - 20 20 - 25 25 - 50 > 50 	<p>Observation Counts</p> <ul style="list-style-type: none"> 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 50 > 50
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Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited
 Gebauer & Associates Ltd.

Figure 3.4: 2018 Ground Survey Observed Caribou Distribution within the LSA for the Whale Tail Haul Road - All Seasons

Meadowbank Gold Project

Prepared for:



By:



Meadowbank AWAR

Significant movements of Caribou from approximately mid-April to mid-May 2018 along the Meadowbank AWAR resulted in multiple closures (see **Table 3.7** and **Appendix C**). Only one road closure was required due to the presence of Muskox herds (i.e., May 10).

Table 3.7: Summary of Road Restrictions Related to Ungulate Activity Along the Meadowbank All-Weather Access Road in 2018.

Date of Closure	Date Reopened	Cause	Comments
April 13		Caribou	closed the road at 17:00
April 14		Caribou	closed all day
April 15		Caribou	closed all day
April 16		Caribou	closed all day
April 17		Caribou	closed all day
April 18		Caribou	closed all day
April 22		Caribou	restricted between Baker Lake and Exploration Camp
April 28	April 29	Caribou	closed - herd close to the road between Baker Lake and km 33
May 2		Caribou	closed since 6am and remains closed for the night
May 3		Caribou	closed all day
May 4		Caribou	closed to all traffic; escort for the daily ride
May 5		Caribou	restricted - road open for fuel truck and road maintenance only
May 6		Caribou	closed to all traffic; visibility near zero at times; no caribou monitoring
May 7		Caribou	closed to all traffic; visibility near zero at times; no caribou monitoring
May 10	May 11	Muskox	closed - Muskox close to the road at km 95
May 13		Caribou	closed - Caribou migration at km 95; road closed for the night
May 14		Caribou	closed - reopened in the morning, but closed again at lunch time because of weather conditions; thus, limited Caribou survey
May 16		Caribou	closed in the afternoon because of weather conditions; visibility did not permit a full survey to be completed
May 19		Caribou	restricted
May 20		Caribou	restricted - open for light vehicles
September 27	September 28	Caribou	restricted - access to the road for night shift only

Vault Haul Road

Significant movements of Caribou from approximately mid-April to mid-May 2018 along the Vault Haul Road resulted in multiple closures (see **Table 3.8** and **Appendix C**)

Table 3.8: Summary of Road Restrictions Related to Ungulate Activity Along the Vault Haul Road in 2018.

Date of Closure	Date Reopened	Cause	Comments
April 14		Caribou	restricted to small vehicles only at 16:00 and for the remainder of the day and night shift
April 15		Caribou	restricted to small vehicles only up to this morning until 11:00 and open for hauling during the day; all traffic suspended from 18:30 to 20:00 with Caribou presence increasing along the road
April 18		Caribou	closed during the day because of weather; no Caribou monitoring
April 27		Caribou	closed
April 28	April 28	Caribou	closed and reopened 11:00 this morning as the Caribou finally crossed the road
April 30		Caribou	restricted
May 4	May 4	Caribou	closed to all traffic from 10:30 to 11:15
May 7	May 7	Caribou	closed to all traffic because of weather; no Caribou monitoring
May 13	May 14	Caribou	closed for all traffic at 23:20 on the 13 th because of Caribou presence in the area; reopened at 01:50 on the 14 th and remained open during the day
May 14	May 15	Caribou	closed for all traffic at 19:40 on the 14 th because of Caribou presence in the area; reopened at 09:25 on the 15 th
May 15	May 16	Caribou	restricted during night shift of 15 th to 16 th with no haul truck traffic permitted with Caribou observed in the area; fully reopened at 08:00 on the 16 th
May 18		Caribou	closed and restricted for ERT
May 19		Caribou	closed
May 22	May 22	Caribou	closed and restricted for ERT
May 23	May 23	Caribou	closed and restricted for ERT
October 31	November 1	Caribou	closed at 16:30 this afternoon and remained closed for the evening; approximately 1,000 Caribou were observed between Meadowbank and Vault

Whale Tail Haul Road

Significant movements of Caribou from approximately mid-April to late-May 2018 and the third week of October along the Vault Haul Road resulted in multiple closures (see **Table 3.9** and **Appendix C**).

Table 3.9: Summary of Road Restrictions Related to Ungulate Activity Along the Whale Tail Haul Road in 2018.

Date of Closure	Date Reopened	Cause	Comments
April 14		Caribou	closed around 17:00 until further monitoring
April 15		Caribou	closed to all traffic because of Caribou herd between km 1.5 and 3.5
April 16		Caribou	closed all day
April 17		Caribou	closed all day
April 18		Caribou	closed all day
April 22	April 22	Caribou	restricted from km 0 to 20 will be the only part to go under escort
April 27		Caribou	restricted
April 28	April 28	Caribou	restricted
May 1	May 3	Caribou	closed May 1 from 21:00 until 02:00 due to Caribou presence near km 2; road re-opened during the day on May 2 nd but access restricted to light vehicle only; road reopened at 06:00 on May 3 rd
May 4		Caribou	closed to all traffic; construction work allowed to continue between Vault Laydown and km 20
May 5		Caribou	closed
May 6		Caribou	closed due to Caribou presence and poor visibility
May 7		Caribou	closed to all traffic between km 17 and Amaruq because of Caribou migration and snow accumulation
May 8		Caribou	closed to all traffic; visibility near zero at time; no caribou monitoring
May 9		Caribou	closed to all traffic between km 17 and Amaruq
May 10		Caribou	closed except for authorized convoy
May 11		Caribou	closed - weather issue; no caribou monitoring
May 12		Caribou	closed except for authorized convoy lead by environment
May 13		Caribou	restricted all day except for a convoy lead by Environment; Caribou were closer to the road at km 60 to 62.
May 14		Caribou	restricted - open up to km 55 but under restricted access for the remainder of road as Caribou were closer to the road at km 60 to 62
May 15		Caribou	restricted as Caribou were closer to the road at km 17 to 18
May 16		Caribou	closed because wind conditions created low visibility and Caribou presence along the road
May 17		Caribou	closed
May 18		Caribou	closed
May 19		Caribou	closed
May 20		Caribou	closed - weather issue and Caribou migration

Table 3.9: Continued.

Date of Closure	Date Reopened	Cause	Comments
May 21		Caribou	closed - weather issue and Caribou migration
May 22		Caribou	closed - north bound due to Caribou crossing the road at km 1
May 23		Caribou	restricted - weather issue and Caribou migration
May 25		Caribou	closed
May 26		Caribou	restricted tonight to ERT, light vehicles, and services trucks only
May 27	May 27	Caribou	restricted
May 30		Caribou	closed
October 21		Caribou	closed from Meadowbank to km 30 for night shift and remained closed all day of the 22 nd ; more than 500 caribou observed from km 1 to 10 in close vicinity of the road, with infrequent crossings of the road; crew change was allowed under restricted access with the Environmental Department.
October 22	October 23	Caribou	closed to km 30 on the 22 nd for night shift and remained closed during dayshift Oct 23 rd ; approximately 1,000 caribou observed from km 12 to 15 but remained far from the road; crew change and a convoy allowed under restricted access with the Environmental Department; road opened during night shift on the 23 rd and remained open all day on the 24 th .

Agnico Eagle staff was present consistently during the day and monitoring these situations with guidance from the Conservation Officer, HTO and KIA members.

3.6.6 Road-related Wildlife Mortality

The following wildlife mortalities, associated with the Meadowbank AWAR, Vault Haul Road, and Whale Tail Haul Road were recorded in 2018 (**Table 3.10**; see reports in **Appendix D**).

Upon discovery of any unreported roadkill remains, environment staff and/or road supervisors reminded employees of road rules and the need to enforce these rules. All employees were informed that wildlife have a right of way at all times, and that they should stop vehicles and wait for wildlife to cross the road.

No Caribou mortality was associated with the AWAR, Vault Haul Road, and Whale Tail Haul Road in 2018. Cumulative road kill data are provided in **Table 3.11**.

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Table 3.10: Wildlife Mortalities Related to the Meadowbank AWAR, Vault Haul Road, and Whale Tail Haul Road and Non-Mine Related Mortalities.

Date	Species	Count	Mine Related	Location	Comments
27 Feb	Arctic Hare	1	Yes	Meadowbank AWAR km 49	Road-related mortality; cause unknown
08 Aug	Caribou	1	No	Meadowbank AWAR km 29	Apparently not mine related
25 Sep	Arctic Hare	1	Yes	Meadowbank AWAR km 50	Road-related mortality
01 Oct	Caribou ¹	1	?	Meadowbank AWAR	Snow plow hit Caribou but wounded or dead animal not found; appears to have survived
05 Oct	Caribou ²	1	No	100 m east of km 33	Sick or wounded; monitored the area; unlikely to be mine-related
15 Oct	Wolf ²	1	No	100 m east of km 5	Sick or wounded; monitored the area; unlikely to be mine-related
16-Oct	Caribou	1	No	Whale Tail Haul Road km 120	Wolf kill; wolf observed eating a Caribou carcass
15 Nov	Caribou	1	No	Meadowbank AWAR km 95	No action required; wolf kill
21 Nov	Caribou	1	No	Whale Tail Haul km 175	Wolf kill; Caribou remains collected and incinerated
24 Nov	Caribou	1	No	Meadowbank AWAR km 60	Wolf kill; Caribou remains collected and incinerated
06 Dec	Arctic Hare	1	Yes	Whale Tail Haul Road km 171	Road-related mortality
08 Dec	Arctic Hare	1	Yes	Whale Tail Haul km 176	No action required

¹ Caribou hit by snow plow but may have survived as no injured or dead animal found

² Sick or wounded animal observed but not necessarily resulting in mortality

3.7 ACCURACY OF IMPACT PREDICTIONS

Table 3.12 provides a summary of the impact predictions identified in the TEMP (Agnico Eagle 2018). The 2018 AWAR, Vault Haul Road, and Whale Tail Haul Road survey data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

3.8 MANAGEMENT RECOMMENDATIONS

The AWAR, Vault Haul Road, and Whale Tail Haul Road survey data are important for documenting time periods when the area near the road is utilized by various wildlife species and for evaluating the need, if any, for implementing adaptive management (e.g., temporary road closures and radio announcements). Moreover, Caribou density can be compared graphically across years, which can be used to track changes in density and preferential migration corridors. The road sections with higher use are prioritized for temporary road closures, speed reductions or additional adaptive management strategies. The road survey data are used in conjunction with satellite-collaring and mortality data to successfully manage road operations during heavy wildlife use periods.

2018 WILDLIFE MONITORING SUMMARY

Table 3.11: Summary of Road-related Wildlife Fatality Records (2007 to 2018).

Year	Caribou	Grizzly Bear	Wolverine	Wolf	Fox	Small Mammals	Small Birds	Unidentified Small Animal
AWAR and Vault Haul Road								
2007	3 ¹	0	0	0	0	3	3	0
2008	10 ²	0	0	2	13	7	17	0
2009	1 ³	0	0	0	1	6	2	0
2010	1	0	0	0	2	6	2	0
2011	2 ³	0	0	1	0	5	4	0
2012	2 ⁴	0	1	0	0	3	1	0
2013	5	0	0	0	1	1	1	0
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	1	4	2	1
2016	0	0	0	0	2	0	1	0
2017	0	0	0	0	5	3	3	0
2018	0	0	0	0	0	0	0	0
Whale Tail Haul Road								
2018	0	0	0	0	0	0	0	0

¹ Two confirmed roadkill cases

² Two apparent roadkill cases

³ Cause of death unconfirmed

⁴ One cause of death unknown

The number and frequency of road surveys in 2018 demonstrate Agnico Eagle’s commitment to avoiding impacts to Caribou from the AWAR, Vault Haul Road, and Whale Tail Haul road. Mitigation measures such as reduced speeds and multiple road closures appear to be minimizing road-related mortality. The road survey data suggest that Caribou migration across the road occurred during April and May, and again in October and November 2018, observations supported by collar data (**Section 6.6**). Caribou movement patterns continue to require close monitoring and analysis in 2019.

2018 WILDLIFE MONITORING SUMMARY

Table 3.12: Accuracy of Impact Predictions – Sensory Disturbance and Mortality along the AWAR, Vault Haul Road, and Whale Tail Haul Road.

Potential Effect	Threshold	Threshold Exceeded (2018)	Adaptive Management Implemented	Status
Sensory Disturbance	Mine-related construction and operation activities will not preclude Caribou and Muskoxen from using suitable habitats beyond 1,000 m of the AWAR.	YES. Deflections noted when Caribou approach the road. Delayed crossing of roads.	YES. Multiple road closures and notices. Use of Decision Tree for Management and Monitoring. Ongoing analysis by GN (in partnership with Agnico Eagle)	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys Satellite-collaring data
Project-related Mortality	Caribou or Muskoxen will not be killed or injured by vehicle collisions. Threshold level of mortality is two (2) individuals per year.	NO. One Caribou struck by a grader but extent of injuries not determined as animal could not be found	YES. Speed limits, notices, road closures and convoys	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys Satellite-collaring data surveys
Project-related Mortality	Predatory mammals will not be killed or injured by vehicle collisions. Threshold level of mortality is two (2) individuals per year.	NO	YES. Speed limits, notices, road closures and convoys)	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys Security surveys
Project-related Mortality	Raptors will not be killed along project roads. Threshold is one (1) individual due to vehicle collision per year.	NO	NO	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys
Project-related Mortality	Waterbirds will not be killed along project roads. Threshold is one (1) individual due to vehicle collision per year.	NO	NO	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys

SECTION 4 • PITS AND MINE SITE GROUND SURVEYS

4.1 OVERVIEW

The mine site ground survey monitoring program (i.e., for Meadowbank, Vault, and Whale Tail) has been designed to verify that impacts to wildlife in and around the mine site LSA are not occurring. The program has a strong emphasis on monitoring mortality of various wildlife groups utilizing habitats near the mine site. In addition, the mine site ground survey monitoring program is an integral component of the monitoring strategy for evaluating sensory disturbance indicators for Caribou.

4.2 OBJECTIVES

The primary objectives of the mine site ground surveys are to:

1. Evaluate whether mine-related construction and operation activities preclude Caribou from using suitable habitats beyond 500 m (considered to be an average across various disturbance types) of mine buildings, facilities, and roads. Threshold level within mine facilities is unnatural Caribou use patterns beyond 500 m. The threshold level along roads is unnatural Caribou use patterns beyond 1,000 m (also see **Section 3**);
2. Confirm that Caribou will not be killed through other mine-related mortality such as falling in pits, tailings sludge, or other means. The cumulative mine threshold level of mortality is two (2) individuals per year;
3. Verify that measures are in place such that Grizzly Bears (*Ursus arctos*) or Wolverines will not need to be destroyed at the mine site. The threshold level of mortality for Predatory Mammals is two (2) individuals per year; and
4. Verify that high value habitats (e.g., sedge meadows) are avoided, and all activities within 100 m of a bird nest site during the latter part of the nest stage (fledgling) are avoided.

4.3 DURATION

The mine site ground surveys are to be conducted regularly by Agnico Eagle environmental personnel over the operation and closure phases of the mine to verify that changes to habitats around the mine site do not cause effects to wildlife and their use of habitat.

4.4 METHODOLOGY

4.4.1 Mine Site Inspections

In 2018, environmental personnel conducted regular mine site inspections focusing on waste management, spills, hazardous waste management, and wildlife monitoring. Formal mine site inspections were carried out at least weekly as part of broader environmental on-site management. During these inspections, non-conformities were identified and rapidly addressed by the responsible department.

Weekly inspections included:

- Regular monitoring of Caribou and Muskox near the facilities. Large mammal presence within the mine is documented during daily and weekly (formal) inspections. Any issues related to safety or proximity effects are identified and the appropriate mitigation is implemented. If risks to animal health are perceived, efforts are made to avoid the wildlife and provide them the right of way. In 2018, a minimum of weekly mine-site ground survey inspections were conducted;
- Regular monitoring of all large mammals on the site;
- Regular monitoring of breeding birds (especially in the spring). No active nests were found in 2018 at the Meadowbank site, therefore no additional monitoring occurred; and
- Inspections of waste management areas, bins, and hazardous material storage.

During environment department inspections and wildlife ground surveys, which focus on migratory birds, Ungulates, Arctic Fox, Wolf, Grizzly Bear, and Wolverine, or through general employee observations or incidence reports provided to the environment department, technicians record and follow up as needed to ensure the protection of wildlife near the mine site. These observations, along with monitoring and deterring activities, are recorded in **Appendix E**. Monthly summary reports and wildlife observation data are submitted to the GN, while quarterly reports are submitted to the KIA.

No ancillary construction activity was undertaken without environmental notification and all activities were within the predicted and approved mine footprint or permit area as confirmed through environmental inspections, ground surveys, and coordination with engineering and site services on the mine site. All areas used by the mine have been accepted and approved by regulators and the KIA through submission and acceptance of annual reports and updated management plans.

4.4.2 Incidental Mine Site Wildlife Observations

All mine site personnel, including construction and support staff, are required to document and report wildlife observed within the boundaries of the mine as well as ancillary areas (e.g., AWAR and haul roads). The protocol involves filling out a wildlife log form located in designated areas or by notifying staff in the environment department, which is intended to ensure that potential problem animals are identified. Completed incidental wildlife log forms are collected on a regular basis for review by environmental personnel. Pertinent data, and daily and weekly mine site inspection reports are consolidated and entered into a database (**Appendix E**). Monthly summary reports and wildlife observation data are submitted to the GN. Quarterly reports are submitted to the KIA.

4.5 2018 RESULTS

4.5.1 Incidental Wildlife Observations

Mine site incidental observations were consolidated from the daily and weekly inspection reports, and observations by mine personnel (see **Appendix E**). Observations were used by environmental personnel to monitor wildlife activity within the mine site and identify potential problem animals. A summary of observations that required action is provided in **Table 4.1** while a summary of total wildlife observations by species and month is provided in **Table 4.2**. As expected, total bird sightings were

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highest in summer while Wolverine and Wolf sightings were highest in winter (see **Figure 4.1**). In 2018, peak Caribou sightings were during the post-calving (July), late summer (August), fall rut (October), and early winter (November) periods (**Figure 4.1**).

Table 4.1: Wildlife Presence Requiring Action (from **Appendix E**).

Date	Species	#	Location	Action
02 January	Wolverine	1	Meadowbank	Deterred. Successful.
03 January	Wolf	1	Meadowbank	Deterred. Successful.
03 January	Wolverine	1	Meadowbank	Deterred. Successful.
03 January	Wolverine	1	Meadowbank	Deterred. Successful.
04 January	Wolverine	1	Meadowbank	Deterred. Successful.
04 January	Wolf	1	Meadowbank	Deterred. Successful.
05 January	Wolf	2	Meadowbank	Deterred. Successful.
07 January	Wolf	1	Meadowbank	Deterred. Successful.
07 January	Wolverine	1	Meadowbank	Deterred. Successful.
11 January	Wolf	1	Meadowbank	Deterred. Successful.
12 January	Wolverine	1	Meadowbank	Deterred. Successful.
13 January	Wolverine	1	Meadowbank	Deterred. Successful.
13 January	Wolverine	1	Meadowbank	Deterred. Successful.
22 January	Wolf	1	Meadowbank	Deterred. Successful.
27 January	Caribou	19	Meadowbank	Closed the road
30 January	Wolverine	1	Meadowbank	Deterred. Successful.
06 February	Wolverine	1	Meadowbank	Deterred. Successful.
07 February	Wolf	1	Meadowbank	Deterred. Successful.
07 February	Wolf	1	Meadowbank	Deterred. Successful.
13 February	Wolverine	1	Meadowbank	Deterred. Successful.
23 February	Wolverine	1	Meadowbank	Deterred. Successful.
23 February	Wolverine	1	Meadowbank	Deterred. Successful.
26 February	Wolf	1	Meadowbank	Deterred. Unsuccessful.
08 April	Wolverine	1	Meadowbank	Deterred. Successful.
09 April	Wolverine	1	Meadowbank	Deterred. Successful.
19 April	Wolf	1	Amaruq	Deterred. Unsuccessful.
02 June	Snow Goose	100	Meadowbank	Deterred. Successful.
12 August	Caribou	80	Meadowbank AWAR km 55	Closed the road
12 August	Caribou	21	Meadowbank AWAR km 56.5	Closed the road
13 August	Caribou	60	Meadowbank AWAR km 37	Closed the road
13 August	Caribou	115	Meadowbank AWAR km 56	Closed the road
13 August	Caribou	20	Meadowbank AWAR km 60	Closed the road
21 August	Caribou	800	Meadowbank AWAR km 75	Closed the road

Table 4.1: Continued.

Date	Species	#	Location	Action
01 October	Wolverine	1	Whale Tail area; Core shack	Deterred. Successful.
31 October	Caribou	1,000	Vault Haul Road	Closed the road
23 November	Caribou	300	Vault Haul Road km 1	Closed the road
06 December	Wolf	1	Pad Q	Deterred. Successful
16 December	Wolf	1	Second Portage Lake	Deterred. Successful
16 December	Wolf	1	Goose Pit	Deterred. Successful
18 December	Wolf	1	Meadowbank AWAR km 101	Deterred. Successful
19 December	Wolverine	1	Landfill	Deterred. Successful

Table 4.2: Total wildlife records by species and month (from Appendix E).

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mammals												
Arctic Fox	4	2	1	7	6	7	6	3	2	1	2	9
Arctic Hare	1	4	2			2	1		2		2	3
Caribou	10	11	7	21	9	37	45	54	12	22	42	10
Grizzly Bear						2		2	2			
Muskox	1		2	1		23	68	17	4	5	3	9
Sik Sik							2					
Weasel											4	
Wolf	19	11	1	11	3	5	8	9	7	6	8	11
Wolverine	25	28	11	11	4	6	7		6	2	5	19
Birds												
Bald Eagle						1		2				
Canada Goose						2	1					
Common Raven										1	2	
Duck						1	1		2			
Peregrine Falcon					2	1	12					
Ptarmigan								2				
Rough-legged Hawk					5		6					
Sandhill Crane					1	1		1				
Snow Goose						3		2				
Snowy Owl				1						1		
Tundra Swan							2					
Total Birds				1	8	9	22	7	2	2	2	

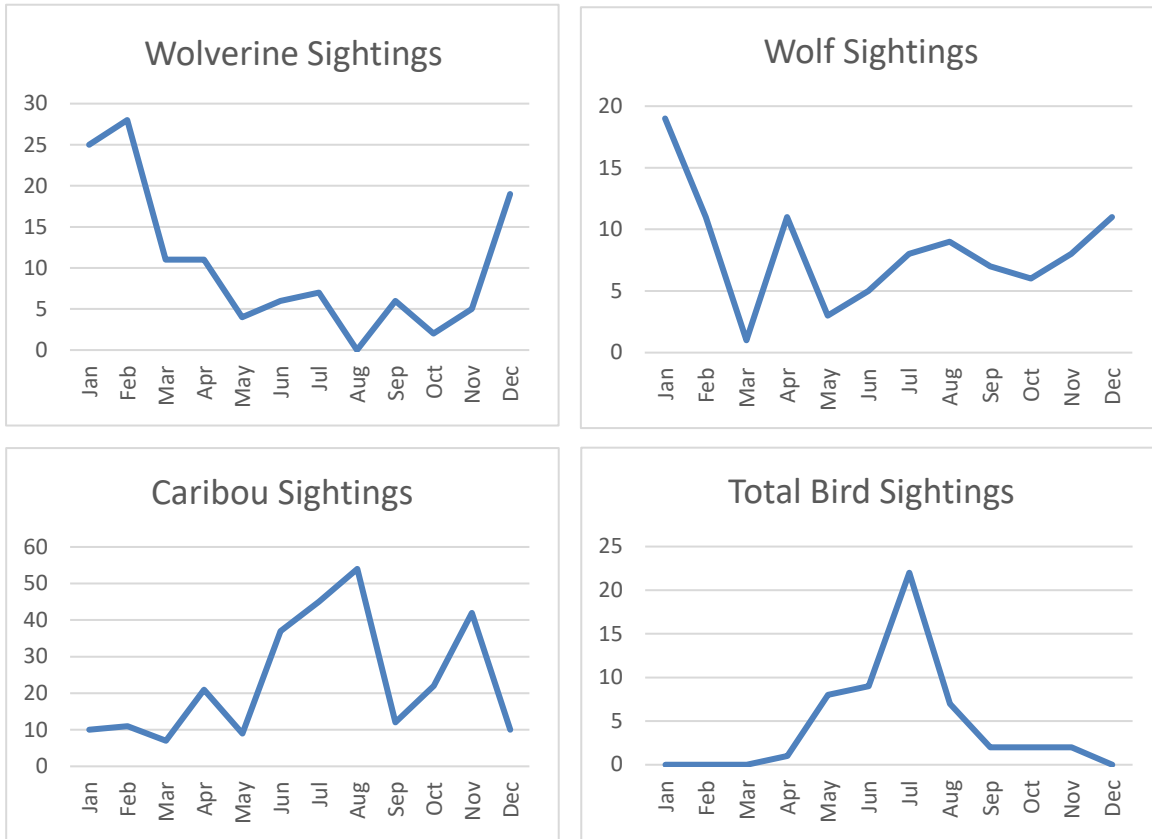


Figure 4.1: Total Incidental Sightings of Wolverine, Wolf, Caribou, and Birds by Month at the Meadowbank and Whale Tail Sites in 2018.

When wildlife was observed in and around the mine site, monitoring frequency increased. In 2018, a high frequency of activity and deterrence action was recorded (41 actions), especially for Wolverine and Wolves in the winter months (i.e., January, February and December) and for Caribou in the late summer (August) and early winter (November) periods (see **Table 4.1**). This degree of human-wildlife interaction at the mine site was not observed in 2017 (23 actions). Deterrence actions implemented in and around the Meadowbank mine site ranged from minimal actions (i.e., blocking the road, approaching animals or herds on foot or by vehicle) to more aggressive use of flares and scare cartridges. In most cases, deterrence proved effective (**Table 4.1** and **Appendix E**).

Trends and unique wildlife observations around the mine site are discussed in the following sections. In a few cases, observations led to direct action to prevent human-wildlife conflict. For example, regular memoranda were distributed suspending all recreation activities and reminding staff of wildlife encounter protocols because of more frequent observations of Wolf and Wolverine around the mine site (see **Appendix F**).

4.5.2 Waterbird Monitoring

To minimize accidental waterbird confinement around the Meadowbank and Whale Tail sites, entrapment in the tailings, and mortality, regular inspections were completed throughout the migratory period and during weekly or daily inspections, as deemed necessary by environmental personnel. Waterbird species recorded by mine personnel between June and September included Canada Goose, Snow Goose (*Chen caerulescens*), Tundra Swan (*Cygnus columbianus*), and ducks (see **Table 4.2**). One large flock of 100 Snow Geese was successfully deterred from the Meadowbank site on 02 June (see **Table 4.1**).

4.5.3 Raptor Monitoring

Raptor monitoring was conducted as part of routine mine site inspections of the pit and other areas to ensure adequate bird protection and management. Peregrine Falcons were observed around project facilities from May to July, with most records in July, while Rough-legged Hawks were observed on several occasions in May and July. Other raptor species observed included Bald Eagle in June and August, and Snowy Owl in April and October (see **Table 4.2** and **Appendix E**). Common Raven was only documented in October and November. No deterrence activities were required for raptors in 2018 (see **Table 4.1**).

4.5.4 Caribou and Muskox Protection

Caribou were observed on a regular and year-round basis in and around the Meadowbank and Whale Tail sites and along the AWAR, Vault Haul Road, and Whale Tail Haul Road in 2018. The highest number of Caribou reports were from June, July, August, October, and November (see **Table 4.2**) with group sizes of up to 800 individuals on 21 August and 1,000 on 31 October (see **Appendix E**). Because of the high numbers of Caribou close to project facilities in 2018, numerous road closures and restrictions were required along the AWAR, Vault Haul Road, and Whale Tail Haul Road (see **Tables 3.4 to 3.6**). Unlike in 2015 and 2016, no attempts were made to deter Caribou; rather, road closures were implemented (see **Table 4.3**).

Muskox individuals and herds, ranging in size from two to 30 individuals, were reported on numerous occasions in 2018 but particularly between June and August (**Table 4.2; Appendix E**). No deterrence was needed for any of these observed animals.

4.5.5 Predatory Mammal Deterrence and Protection

Improved practices for waste segregation and incineration, the use of enclosed food waste facilities, and skirting around buildings have improved Arctic Fox protection and decreased fox-human interactions (see **Table 4.3**). Weekly inspections by environmental personnel provided monitoring data that indicated that Arctic Fox were on site but only one animal needed to be trapped and dispatched (see **Section 4.5.6.3** and **Appendix D**).

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Table 4.3: Summary of Deterrence Activities at the Meadowbank Mine and Whale Tail Sites from 2015 to 2018.

Species	2015	2016	2017	2018
Mammals				
Arctic Fox	6	6	2	
Caribou	10	24		
Red Fox	1			
Wolf	1	4	9	15
Wolverine	5	3	10	17
Birds				
Ducks	2	5		
Ducks & Geese	1			
Geese		3		
Snow Goose				1
Tundra Swan	1			

Wolverines were regularly observed around the Meadowbank and Whale Tail sites primarily during the winter months in 2018 (see **Table 4.2**, **Figure 4.1**, and **Appendix E**). Deterrence actions, which followed the Wildlife Protection and Response Plan (Appendix C in 2018 TEMP), were required on 17 occasions primarily in January and February (**Table 4.1**). One Wolverine, which was not successfully deterred from the site was dispatched on 13 January (see **Section 4.5.6.2** and **Table 4.3**). Well-defined food-handling practices and employee awareness programs have minimized Wolverine fatalities or Wolverine-human interactions; however, an increase in deterrence efforts in 2018 (see **Table 4.3**) will be tracked to determine whether the trend continues in 2019.

Wolves were also regularly observed around the Meadowbank and Whale Tail sites during the winter months in 2018 (see **Table 4.2**, **Figure 1**, and **Appendix E**). Deterrence actions were required on 14 occasions in January, February, April, and December (**Table 4.1**). One Wolf, which was not successfully deterred from the site, was dispatched on 25 January (see **Section 4.5.6.2** and **Table 4.3**). Notices were sent on a weekly basis to Meadowbank employees regarding the presence of wildlife, waste management procedures, and requesting all sea cans and doorways be closed. An increase in deterrence efforts in 2018 (see **Table 4.3**) will be tracked to determine whether the trend continues in 2019.

Grizzly Bears were reported on six occasions in 2018 (**Table 4.2**; **Appendix E**). No deterrence action was required.

4.5.6 Wildlife Mortality – Meadowbank and Whale Tail Sites

A summary of recorded wildlife fatalities near or within the mine site in 2018 is provided in **Table 4.4**, and a summary of fatalities to date is provided in **Table 4.5**. Copies of mortality incident reports can be found in **Appendix D**. All road-related fatalities are tabulated and discussed in **Section 3.6.6**.

Table 4.4: 2018 Mine Site Wildlife Fatality Log.

Date	Species	Count	Mine Related	Location	Comments
13 Jan	Wolverine	1	Yes	Meadowbank	Dispatched after efforts to deter failed; Wildlife Destruction Authorization received.
17 Jan	Arctic Fox	1	Yes	Whale Tail	Dispatched; Wildlife Destruction Authorization received.
25 Jan	Wolf	1	Yes	Meadowbank	Dispatched after efforts to deter failed; Wildlife Destruction Authorization received.
01 Feb	Arctic Fox	1	Yes	Meadowbank	Mine road-related mortality
26 Feb	Wolf	1	?	Meadowbank	Removed the carcass and gave it to the Conservation officers; died of head injury possibly mine-related; did not need to be dispatched
26 Apr	Arctic Fox	1	No	Whale Tail	Monitored the area
26 Apr	Arctic Fox	1	No	Meadowbank	Carcass found; being eaten by a Wolf
17 Sep	Long-tailed Duck	1	Yes	Meadowbank Assay Lab	No action required; may have broken neck by colliding with building
20 Sep	Long-tailed Duck	1	Yes	Meadowbank Assay Lab	No action required; may have broken neck by colliding with building
03 Nov	Wolverine	1	No	Third Portage Lake	Found dead in middle of lake
29 Nov	Arctic Fox	1	Yes	Grease Trap Building	Found dead and removed; holes in building repaired to prevent small animal access

4.5.6.1 Caribou

No Caribou mortalities related to project activities were reported at the mine site in 2018. All incident reports, observations, deterrence activities, and environment team responses to Caribou sightings are included in **Appendix E**. Any Caribou mortalities along the roads are discussed in **Section 3.6.6**.

Table 4.5: Summary of Mine Site Wildlife Fatality Records for Caribou and Predatory Mammals (2007 to 2018).

Year	Caribou	Grizzly Bear	Wolverine	Wolf
2007	0	0	0	0
2008	0	0	0	2
2009	0	0	0	4
2010	0	0	0	1
2011	0	0	1	4
2012	0	0	0	1
2013	0	0	1	0
2014	0	0	0	1
2015	4 ¹	0	0	1 ²
2016	1 ³	0	0	0
2017	1 ³	0	1	3 ⁴
2018	0	0	1	2 ⁵

¹ One Caribou died of natural causes while three were killed by Wolves.

² Naturally injured Wolf that needed to be euthanized.

³ One Caribou killed by Wolves.

⁴ One Wolf likely killed by Wolverine.

⁵ Wolf died at mine site of head injuries; did not need to be dispatched

4.5.6.2 Predatory Mammals

All incident reports, observations, deterrence activities, and environment team responses to predatory mammal sightings are included in **Appendices E** and **F**.

One Wolverine, which was frequenting the kitchen area of the Meadowbank camp site, was dispatched on 13 January after determent efforts failed. Written wildlife destruction authorization was received from the Baker Lake Conservation Officer III, Russell Toolooktook (see **Appendix D**). Increasing wolf sightings around the Meadowbank mine site beginning 11 January resulted in almost daily deterrence efforts that failed to adequately deter the animal (see 'Annexe, Wolf Observation and Detering Actions around Meadowbank Site' in **Appendix D**). On 25 January, following authorization from the Conservation Officer III, the wolf was dispatched. On 26 February, authorization was given to dispatch an injured wolf on site but the animal was found dead shortly thereafter, apparently having died of head wounds.

4.5.6.3 Other Wildlife

On 17 January, an Arctic Fox that had been regularly seen around the Amaruq camp site and was causing some damage to facilities was trapped and euthanized following written wildlife destruction authorization (see **Appendix D**). On 29 November, a dead Arctic Fox was found within the Grease Trap Building. Efforts were made to seal up any holes in the building and to minimize further wildlife incursions. Three other foxes were found dead on the mine site with cause of death related to road-related collisions and wolf predation (see **Appendix D**).

Two dead Long-tailed Ducks (17 and 20 September) were found at the Meadowbank Assay Lab apparently having died following a collision with one of the buildings (see **Appendix D**).

4.6 ACCURACY OF IMPACT PREDICTIONS

Table 4.6 provides a summary of the impact predictions identified in the TEMP (Agnico Eagle 2018) that are evaluated, in part, by the mine site ground surveys. Specifically, the 2018 mine site ground survey monitoring data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

4.7 MANAGEMENT RECOMMENDATIONS

The following are specific management recommendations for the mine site ground survey monitoring program:

- Continue to conduct informal daily and weekly pit and mine surveys to document wildlife activity and to verify that effects to wildlife are not occurring because of mine-related activities;
- Continue raptor nest monitoring around the Meadowbank and Whale Tail LSAs, and along the AWAR, Vault Haul Road, and Whale Tail Haul Road;
- Continue to apply the Wildlife Protection and Response Plan (Appendix C, 2018 TEMP), which includes waste provisions, training, incident reporting, and protocols for problem wildlife. Efforts should be taken to ensure all perishable garbage is directed to the incinerator;
- Continue training and re-education to ensure that incidental wildlife reporting is completed by all mine site personnel so that environmental personnel can remain informed of pertinent wildlife-related activity near the mine site;
- Monitor tailings ponds daily during the waterbird migration period, beginning in mid-May. Increase the frequency of deterrent use if required; and
- Attempt to gather more detailed information (e.g., sex; age) on deceased animals and include in incident reports.

2018 WILDLIFE MONITORING SUMMARY

Table 4.6: Accuracy of Impact Predictions – Mine Site Wildlife Disturbances.

Potential Effect	Threshold	Threshold Exceeded (2018)	Adaptive Management Implemented	Status
Sensory Disturbance	Mine-related construction and operation activities will not preclude Caribou and Muskoxen from using suitable habitats beyond 500 m of mine buildings, facilities and roads.	YES. Deflections noted when Caribou approach the road. Delayed crossing of roads.	YES. Multiple road closures and notices. Use of Decision Tree for Management and Monitoring. Ongoing analysis by GN (in partnership with Agnico Eagle)	Satellite-collaring data Road surveys Daily and weekly pit and mine-site ground surveys Incidental wildlife reporting Motion sensing cameras
Disturbance to Nesting Raptors	Raptor nest failures will not be caused by mine-related activities. Threshold is one (1) nest failure per year.	NO	NO	Daily and weekly pit and mine-site ground surveys Incidental wildlife reporting Dedicated raptor nest surveys Road surveys
Disturbance of Nesting, Roosting or Moulting Waterfowl	Mine facilities and activities will not affect the breeding success of waterbirds occurring in the area or disturb large concentrations of roosting or moulting waterbirds. Threshold level is one (1) nest failure per year.	NO	NO	Daily and weekly pit and mine-site ground surveys Waterbird nest surveys
Project-related Mortality	Destruction of two (2) problem Grizzly Bear or Wolverine per year.	NO. One (1) Wolverine dispatched in 2018	NO	Daily and weekly pit and mine-site ground surveys
Project-related Mortality	Two (2) Caribou or Muskoxen mortality per year because of mine-related activities (e.g., falling into pits, tailing, sludge or other means)	NO	NO	Daily and weekly pit and mine-site ground surveys
Project-related Mortality	Waterbirds will not be killed at the mine site. Threshold is one (1) individual per year.	YES. Two (2) dead Long-tailed Ducks found at Meadowbank Assay Lab	YES. Causes of death and potential mitigation options investigated	Daily and weekly pit and mine-site ground surveys

SECTION 5 • WILDLIFE HABITAT MONITORING

5.1 OVERVIEW

The wildlife habitat mapping monitoring program was developed to describe the overall area of different Ecological Land Classification (ELC) units lost due to mine-related activities (i.e., during construction, operation, decommissioning, and post-closure phases) at three primary locations: Meadowbank Main and Vault sites (which together encompass the mine site), the AWAR, and the Whale Tail Pit and Haul Road. The initial strategy in the impact assessments for Meadowbank and Whale Tail was to compare predicted habitat losses due to mine development to actual losses (i.e., from the environmental assessments); however, regular infrastructure extensions and expansions, changes to the project, and subsequent regulatory approvals, made this approach difficult to implement. The current approach is to compare habitat losses due to development to permitted areas, which encompass all proposed development.

5.2 OBJECTIVE

The primary initial objective of the habitat mapping monitoring program was to confirm that habitat losses identified in the TEMP (Agnico Eagle 2018) and the Whale Tail Pit EIS Addendum (Golder 2016) for the mine sites, haul roads, and AWAR, plus any subsequent approved extensions, have not exceeded threshold limits. As indicated above, this approach was difficult to execute due to regular mine plan changes and subsequent approvals. For this 2018 report, habitat losses were compared to permitted areas, which encompass mine development areas. A summary of each monitoring parameter, predicted losses, permitted areas, and thresholds for the Meadowbank Mine and Whale Tail components is included in **Tables 5.1** and **5.2**, respectively.

Table 5.1: Habitat Mapping Monitoring Parameters, Predicted Footprint Losses, Permitted Areas, and Thresholds for the Meadowbank Mine, AWAR and Vault Haul Road.

Monitoring Parameter	Mine Site Predicted Loss	Mine Site Permitted Area	AWAR / Vault Haul Road Predicted Loss	Threshold
Wildlife Habitat	867 ha	1,532 ha	281 ha ¹	>5% Predicted
Ungulate – High Suitability Habitat	240 ha (growing) 191 ha (winter)	531 ha (growing) 407 ha (winter)	63 ha (growing) 188 ha (winter)	>10% Predicted
Small Mammals – High Suitability Habitat	Given the minimal effects associated with the Meadowbank project, habitat loss effects on Small Mammals were screened out during the EA (Golder 2016)			
Waterbirds – High Suitability Habitat	518 ha	417 ha	22 ha	>10% Predicted
Breeding Birds – High Suitability Habitat	322 ha	736 ha	170 ha	>10% Predicted

¹ Permitted areas along the AWAR and Vault Haul Road is 348 ha.

Table 5.2: Habitat Mapping Monitoring Parameters, Predicted Footprint Losses, Permitted Areas, and Thresholds for the Whale Tail Pit and Haul Road.

Monitoring Parameter	Whale Tail Predicted Loss	Whale Tail Permitted Area	Threshold
Wildlife Habitat	820 ha	1,473 ha	>5% Predicted
Ungulate – High Suitability Habitat	30 ha (growing) 342 ha (winter)	76 ha (growing) 602 ha (winter)	>10% Predicted
Small Mammals – High Suitability Habitat	Given the minimal effects associated with the Meadowbank project, habitat loss effects on Small Mammals were screened out during the EA (Golder 2016)		
Waterbirds – High Suitability Habitat	Given the minimal effects associated with the Meadowbank project, habitat loss effects on Waterbirds were screened out during the EA (Golder 2016)		
Breeding Birds – High Suitability Habitat	Given the minimal effects associated with the Meadowbank project, habitat loss effects on Breeding Birds were screened out during the EA (Golder 2016)		

5.3 DURATION

The total area of habitat disturbance associated with mine site and ancillary facility construction was mapped following significant construction completion (2010) and was to be mapped annually during the operation phase as detailed in the TEMP (Cumberland 2006). At the end of 2010, a detailed ELC habitat loss analysis found that habitat losses to date were substantially lower than predicted and that no habitat loss thresholds for VECs were exceeded. Given this outcome, another detailed ELC habitat loss analysis was not provided until the 2012 report, which had similar conclusions as those in 2010. The 2014 habitat analysis determined that habitat losses were still below predicted losses but that some of the thresholds were being reached. The next analysis was provided in the 2017 report, although a complete analysis was not possible.

The current habitat mapping monitoring program is intended to be completed every three years post-construction or if changes are greater than 25% of the overall mine site footprint from the previous year evaluation. This frequency may be reduced during the operation phase if the amount of new disturbance and reclamation areas is relatively unchanged. Following decommissioning, vegetation mapping will be conducted in the first two years post-closure and every three years thereafter until Year 11 post-closure to verify that thresholds have been met.

5.4 METHODOLOGY

Monitoring of habitat loss will occur at three primary locations: Meadowbank Mine (includes Vault Pit and Haul Road), AWAR (including quarry sites), and Whale Tail Pit and Haul Road (includes borrow sites and access roads). The calculation of impacted ELC units is based on Agnico Eagle as-built mine and road construction drawings and reports, aerial photographs and satellite imagery, and ground investigations. Newly disturbed areas are delineated using Global Positioning System (GPS) and Geographic Information System (GIS) mapping. For the Meadowbank Mine and AWAR locations, thresholds are disturbance of 5% above permitted areas of 1,532 and 348 ha, respectively. For the Whale Tail and Haul Road location, threshold is disturbance of 5% above a permitted area of 1,473 ha.

5.5 HISTORICAL RESULTS

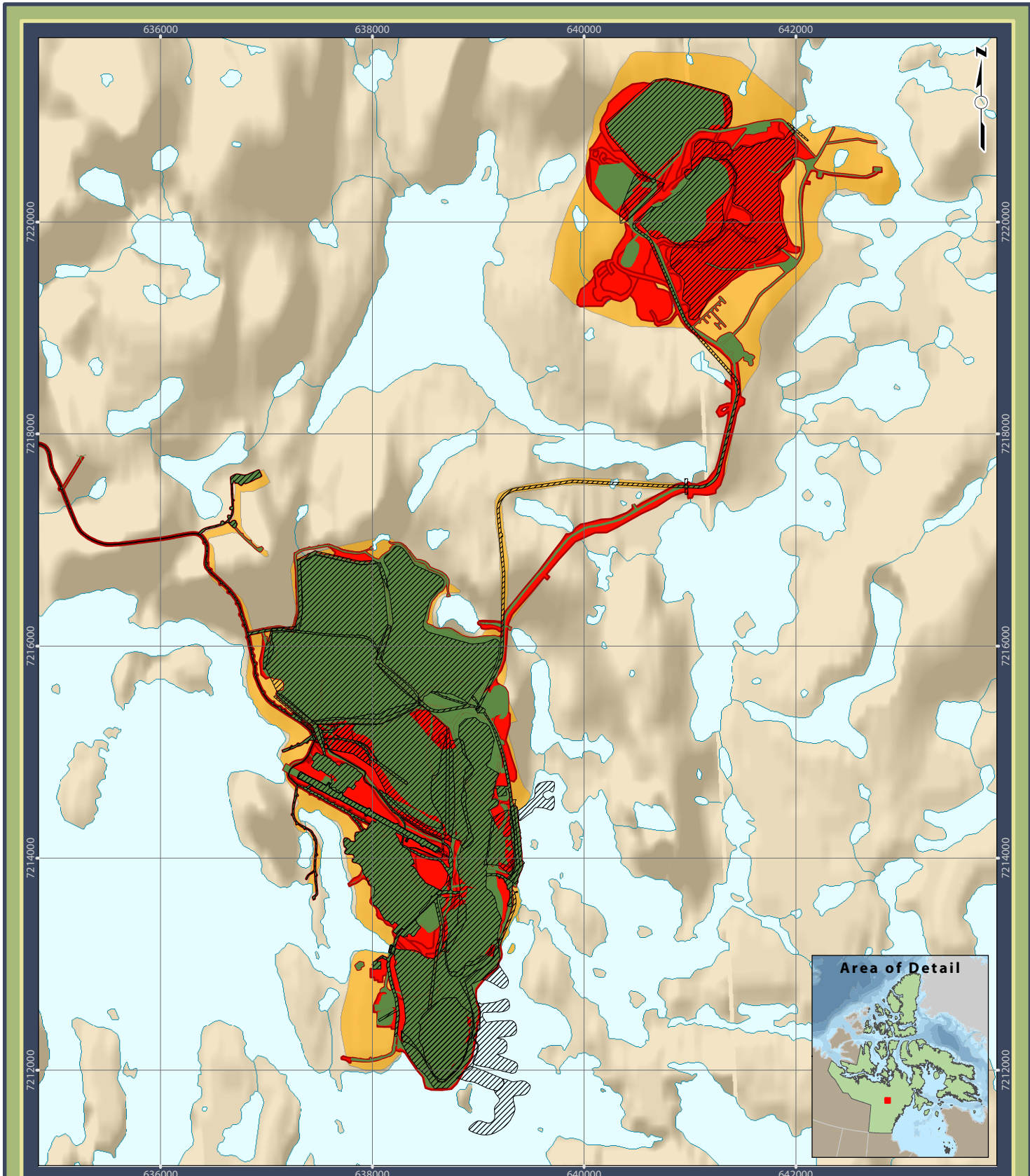
5.5.1 Meadowbank Mine Site




In 2014, most of the Main Site construction was complete, including most of the infrastructure for the Vault Pit area, although much of the pit and waste rock storage area had not yet been disturbed (see **Figure 5.1**). ELC results for the mine site footprint, based on as-built drawings from 2014, were compared to predicted ELC unit losses from the 2005 EIS, plus approved extensions. Actual habitat loss for the mine site in 2014 was calculated to be 775.7 ha, which was 91.1 ha less than the predicted total habitat loss of 866.8 ha for the mine site. Differences between predicted and actual habitat losses were greatest in Heath Tundra, Birch and Riparian Shrub, and Lichen ELC units, all of which are High suitability habitat for ungulates during the winter season. Although no thresholds (>5 to 10% above predicted losses) for the loss of High suitability habitat were exceeded for any VECs, threshold levels for the mine site were almost reached in 2014. Consequently, commitments were made to remove the material stored in the NPAG extension area (which was approved by NWB) and use it for capping of the North Cell Tailings Storage Facility during the closure/reclamation phase of the mine.

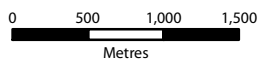
In 2017, the mine development footprint had changed substantially since the 2014 analysis (see **Figure 5.1**). The Vault Pit was fully operational and had expanded into the Phaser Lake area. Although the Phaser Lake extension was completed with approval from the NIRB and the Nunavut Water Board (NWB), the size of the extension area was not available for habitat calculations in the 2017 report. Actual habitat loss for the mine site in 2017 was calculated to be 1,021 ha, which was 154 ha more than the predicted total habitat loss of 867 ha for the mine site. The difference between predicted and actual habitat losses is primarily attributable to the final extent of the Vault waste dump, the Phaser Lake extension of the Vault Pit area (i.e., not included in the 867 ha calculation), and the as-built layout of the NPAG expansion of the Portage Waste Rock Facility. Differences between predicted and actual habitat losses were greatest for the Sedge, and Birch and Riparian Shrub ELC units, both of which are High suitability habitat for ungulates during the winter season. Greater than 10% differences between predicted and actual habitat losses were also observed in Heath Tundra, Lichen, Lichen-Rock, and Rock and Boulder ELC units. Additionally, losses of High suitability habitat exceeded established thresholds for Ungulates (growing and winter season), Small Mammals, and Other Breeding Birds.

5.5.2 AWAR

The ELC results for the AWAR had not changed since the 2010 analysis, and habitat loss analyses were not required. The 2010 ELC results for the AWAR were compared to ELC unit losses predicted in the 2005 EIS report. Construction of the AWAR required considerably less area (173 ha) than predicted in the 2005 EIS (281 ha) and for each ELC unit, actual habitat losses were less than predicted. ELC habitat loss values for the AWAR in 2010 were compared to predicted High suitability habitat losses for Ungulates (growing and winter season), Waterbirds, Other Breeding Birds, and Small Mammals. In all cases, the actual High suitability habitat losses were significantly less than predicted losses and no thresholds (i.e., >5 to 10% above predicted losses) were exceeded.



- Legend**
-  Approved Mine Plan
 -  Disturbed Mine Area in 2014
 -  Area Disturbed Since 2018
 -  Permitted Lease Area in 2018



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited

Figure 5.1: Meadowbank Mine Plan Comparison

Meadowbank Gold Project

Prepared for:



By:




5.6 2018 RESULTS

5.6.1 Meadowbank Mine Site

A thorough habitat loss analysis was conducted in 2018 and habitat loss outcomes were compared to permitted areas (see **Table 5.3** and **Figure 5.1**). For all ELC units, habitat losses were less than the habitat available within permitted areas; therefore, thresholds were not surpassed. Of note is that the predicted losses (i.e., EIS predicted losses plus approved extensions) have not been updated since 2014; therefore, values are compared to permitted areas.

Table 5.3: Meadowbank Mine Site Footprint ELC Unit Totals – 2005 EIS Predictions Plus Approved Extensions, Permitted Areas, 2018 ELC Loss Results, and Differences

ELC Unit	Predicted ELC Unit Losses (ha) (from 2005 EIS plus Approved Extensions) ¹	Permitted Areas (Used in 2018 for Assessment of Effects)	Calculated ELC Unit Losses (ha)			Difference (Between Losses and Permitted Areas)
			2014	2017	2018	
Birch and Riparian Shrub	88.03	202.91	104.97	124.86	142.43	-60.49
Heath Tundra	82.29	145.51	93.47	104.61	116.65	-28.86
Lichen	82.72	175.07	87.67	105.98	119.9	-56.07
Lichen-Rock	25.52	86.45	27.12	37.53	43.67	-42.78
Ridge Crest / Esker / Avens	0.15	0.19	0.07	0.16	0.18	-0.01
Rock and Boulder	70.13	185.13	72.99	99.12	113.15	-71.98
Sedge	151.58	328.03	155.54	192.96	229.05	-98.98
Water	366.42	408.33	233.88	356.00	365.13	-43.19
Total Area	866.84	1,531.63	775.71	1,021.22	1129.26	-402.37

¹ Predicted loss numbers have not been updated since the 2014 report, and the approved extensions do not include the Phaser Lake extension

Similar to the overall habitat loss assessment, high suitability habitat losses for Ungulates, Small Mammals, Waterbirds, and Other Breeding Birds are all well below high suitability habitats available within permitted areas; therefore, no thresholds have been surpassed (see **Table 5.4**).

Table 5.4: Meadowbank Mine Site Predicted and Actual High Suitability Habitat Losses for Ungulates, Small Mammals, Waterbirds, and Other Breeding Birds Compared to Thresholds

Habitat Loss (ha)	Terrestrial Habitat	Ungulate Growing Season	Ungulate Winter Season	Small Mammals	Waterbirds	Breeding Birds
Predicted Loss ¹	1,531	531	407	677	417	736
2010 Value	352	118	69	67	214	146
2012 Value	493	144	99	95	304	197
2014 Value	776	261	208	194	389	354
2017 Value	1,021	318	248	241	549	422
2018 Value	1,129	372	280	488	274	594
% of Predicted Loss	73.7	70.0	68.6	72.2	65.6	80.7
Allowed Threshold (above Predicted Loss)	5%	10%	10%	10%	10%	10%
Threshold Exceedance	No	No	No	No	No	No

¹ Predicted loss in 2018 is based on permitted area and not EIA predicted area plus approved extensions

5.6.2 AWAR

The ELC results for the AWAR have not changed since the 2010 analysis (see **Section 5.5.2**).

5.6.3 Whale Tail Pit and Haul Road

A thorough habitat loss analysis was conducted in 2018 and habitat loss outcomes were compared to permitted areas (see **Table 5.5** and **Figure 5.2**). For all ELC units, habitat losses were less than the habitat available within permitted areas; therefore, thresholds were not surpassed.

As with the overall habitat loss assessment, high suitability habitat losses for Ungulates was well below high suitability habitats available within permitted areas; therefore, no thresholds have been surpassed (see **Table 5.6**).

5.7 ACCURACY OF IMPACT PREDICTIONS

The 2018 habitat loss data were compared to permitted areas (i.e., rather than EIA predicted areas and extensions) to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure. Actual habitat loss as result of mine site construction and AWAR development to date is significantly less than habitat available within permitted areas (see **Table 5.7**).

2018 WILDLIFE MONITORING SUMMARY

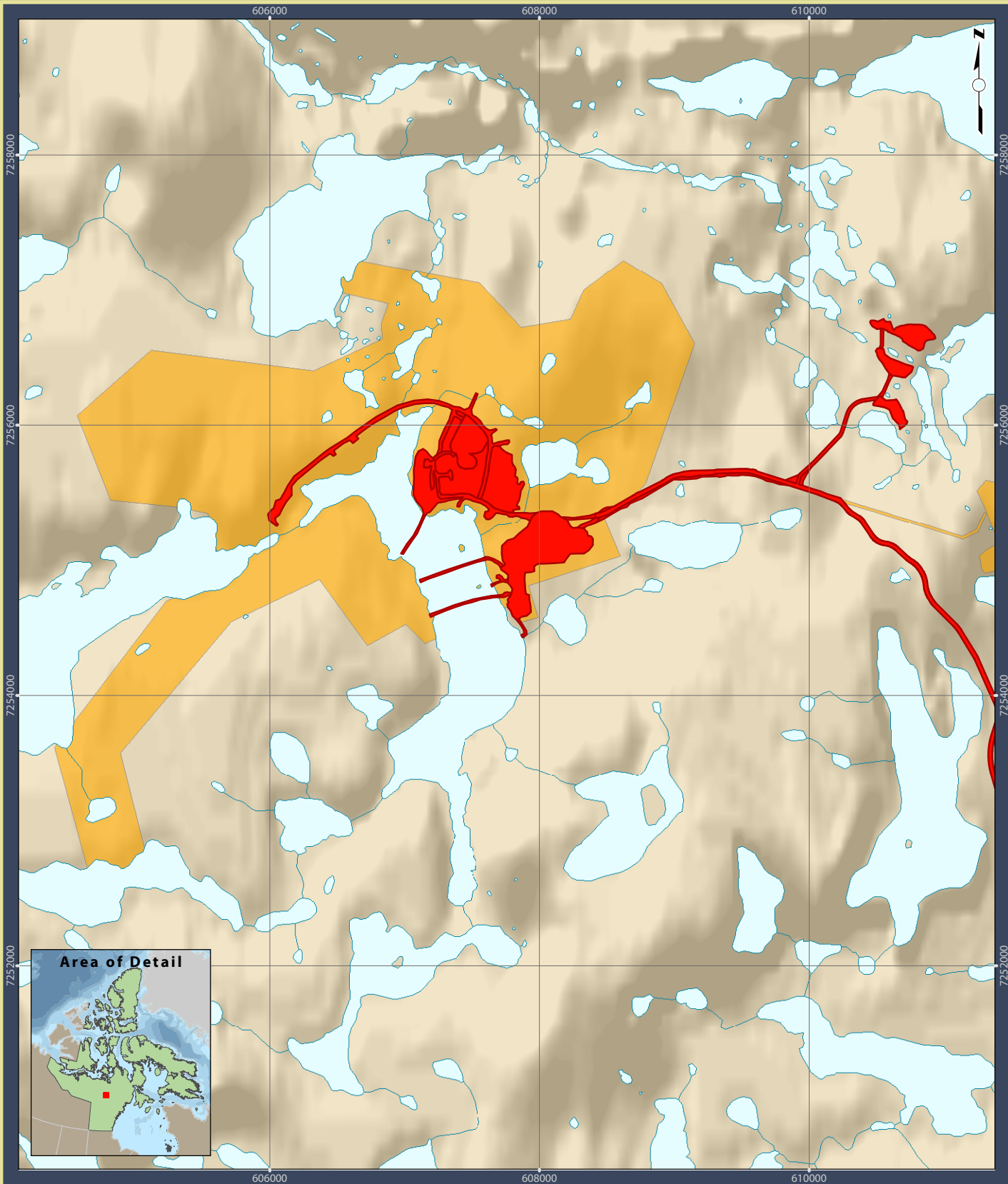
Table 5.5: Whale Tail Pit and Haul Road Footprint ELC Unit Totals – 2005 EIS Predictions Plus Approved Extensions, Permitted Areas, 2018 ELC Loss Results, and Differences

ELC Unit	Permitted Areas (Used in 2018 for Assessment of Effects)	2018 Calculated ELC Unit Losses (ha)	Difference (Between Losses and Permitted Areas)
Boulder/Gravel	113.23	22.41	90.82
Graminoid Tundra	32.89	5.71	27.18
Graminoid / Shrub Tundra	14.23	4.60	9.63
Heath Tundra	212.71	85.33	127.38
Heath Upland	301.02	99.85	201.16
Heath Upland / Rock Complex	12.62	5.89	6.73
Lichen Tundra	88.13	25.89	62.24
Lichen / Rock Complex	460.65	128.48	332.17
Sand	16.47	8.66	7.81
Shrub Tundra	10.83	3.09	7.73
Shrub / Heath Tundra	21.56	6.67	14.89
Water	181.47	5.35	176.12
Wet Graminoid	7.01	0.31	6.70
Total Area	1472.80	402.22	1070.57

Table 5.6: Whale Tail Pit and Haul Road Predicted and Actual High Suitability Habitat Losses for Ungulates Compared to Thresholds

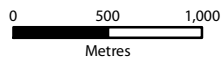
Habitat Loss (ha)	Terrestrial Habitat	Ungulate Growing Season	Ungulate Winter Season
Predicted Loss ¹	1,473	76	602
2018 Value	402	17	2011
% of Predicted Loss	27.3	22.8	35.1
Allowed Threshold (above Predicted Loss)	5%	10%	10%
Threshold Exceedance	No	No	No

¹ Predicted loss in 2018 is based on permitted area and not EIA predicted area plus approved extensions



Legend

- Area Disturbed Since 2018
- Permitted Lease Area in 2018



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited

**Figure 5.2: Whale Tail
 Plan Comparison**

Meadowbank Gold Project

Prepared for:



By:



Table 5.7: Accuracy of Impact Predictions – Habitat Loss

Measurable Parameter	Threshold (Compared to Permitted Areas)	Threshold Exceeded (2018)	Adaptive Management Implemented	Status
Habitat Loss	Terrestrial Habitat Meadowbank = 1,532 ha AWAR = 348 ha Whale Tail = 1,473 ha Threshold is >5% habitat loss of permitted area	NO	None required	Ground Surveys Mapping and GIS analyses – ELC habitat mapping
	Ungulates Meadowbank Growing = 531 ha Winter = 407 ha Whale Tail Growing = 76 ha Winter = 602 ha	NO	None required	
	Small Mammals Waterbirds Breeding Birds	Given the minimal effects associated with the Meadowbank project, habitat loss effects were screened out during the EA (Golder 2016)		
	Following mine closure and reclamation activities (except for tailings, waste rock facilities and exposed pit slopes) will see re-vegetation rates of >20% (year 2 post-closure), >40% (year 5), >60% (year 8) and >80% (year 11)	Not Yet Applicable		

5.8 MANAGEMENT RECOMMENDATIONS

Calculated habitat loss for the project are well below habitats available within the permitted areas, as are high suitability habitat losses for wildlife VECs.

Where unnecessary and unplanned habitat degradation has occurred, measures will be taken to reclaim or rejuvenate these areas. Measures may involve removal of contaminated soil, placement of stockpiled native soils, reseeding (e.g., native-grass cultivars and forbs such as nitrogen-fixing legumes), and transplanting of vegetation.

SECTION 6 • CARIBOU SATELLITE-COLLARING PROGRAM

6.1 OVERVIEW

Agnico Eagle continues to collaborate with the GN DoE in a Caribou satellite-collaring program that includes data collected within the Meadowbank RSA, as per the recently renewed (2017) MOU with government partners. The GN biologists discuss collar deployments with hunters and Elders and get approval prior to proceeding. Discussions are ongoing between Agnico Eagle, GN, and other partners on the best path forward to ensure Caribou migration maps continue to integrate Elders and local HTO input.

Information pertaining to the identification and location of various herds that use the Meadowbank and Whale Tail RSAs at different times of the year are important components of ongoing monitoring and management efforts at the mine site and along project roads.

6.2 OBJECTIVES

The satellite-collaring program was developed to provide information on the distribution of Caribou occurring within the Meadowbank RSA and contribute data to ongoing satellite-collaring programs for the Ahiak, Qamanirjuaq, and other herds. The satellite-collaring program, along with GN DoE regional data, is an important monitoring and management tool that provides a regional perspective on Caribou activity near mine operations. Another key objective of the program is to provide timely information for the Caribou management and monitoring strategy at the Meadowbank and Whale Tail sites (i.e., Decision Tree approach; see 2018 TEMP).

To determine whether Caribou approaching the mine and roads are being disturbed (e.g., if their movement is deflected to avoid the project), a comprehensive analysis of satellite collaring data since 2008 will be undertaken collaboratively by the GN and Agnico Eagle, but led by the GN. Results of the analysis will be included in a subsequent annual Wildlife Monitoring Summary Report. Agnico Eagle has also initiated an analysis to explore the extent of a potential Zone of Influence (ZOI) for Caribou from the project and will provide this information when available.

6.3 DURATION

The satellite-collaring program was initially designed to continue for five consecutive years in accordance with the original TEMP (Cumberland 2006), but collar deployments have continued beyond this period as part of a long-term Caribou monitoring strategy for the region. Caribou in the Baker Lake area were first collared in May 2008, and the program has continued for more than a decade. Monitoring of collars will continue in 2019.

6.4 METHODOLOGY

Caribou are carefully netted by the contracted satellite-collaring crew via helicopter and fitted with either an Advanced Research and Global Observation Satellite (ARGOS) GPS Type IV or Iridium satellite-collar. Collar data are regularly¹ retrieved electronically via satellite and distributed to GN DoE and Nunavut Environmental personnel by CLS America, the data-management company.

Deployed collar data were included in a population distribution analysis completed for the GN (Nagy et al. 2011). The clustering and movements of each collared Caribou are examined and assigned to the sub-population (i.e., Ahiak, Beverly, Lorillard, Qamanirjuaq, and Wager Bay) that best fits the animal's movement characteristics.

6.5 HISTORICAL RESULTS

Collaring was originally scheduled to commence in 2007 but was postponed for one year due to logistical constraints. Seven deployments, with a total of 117 collars, have been completed in the area around Baker Lake since Agnico Eagle became involved in the collaring program. The following numbers of collars were successfully deployed since 2008:

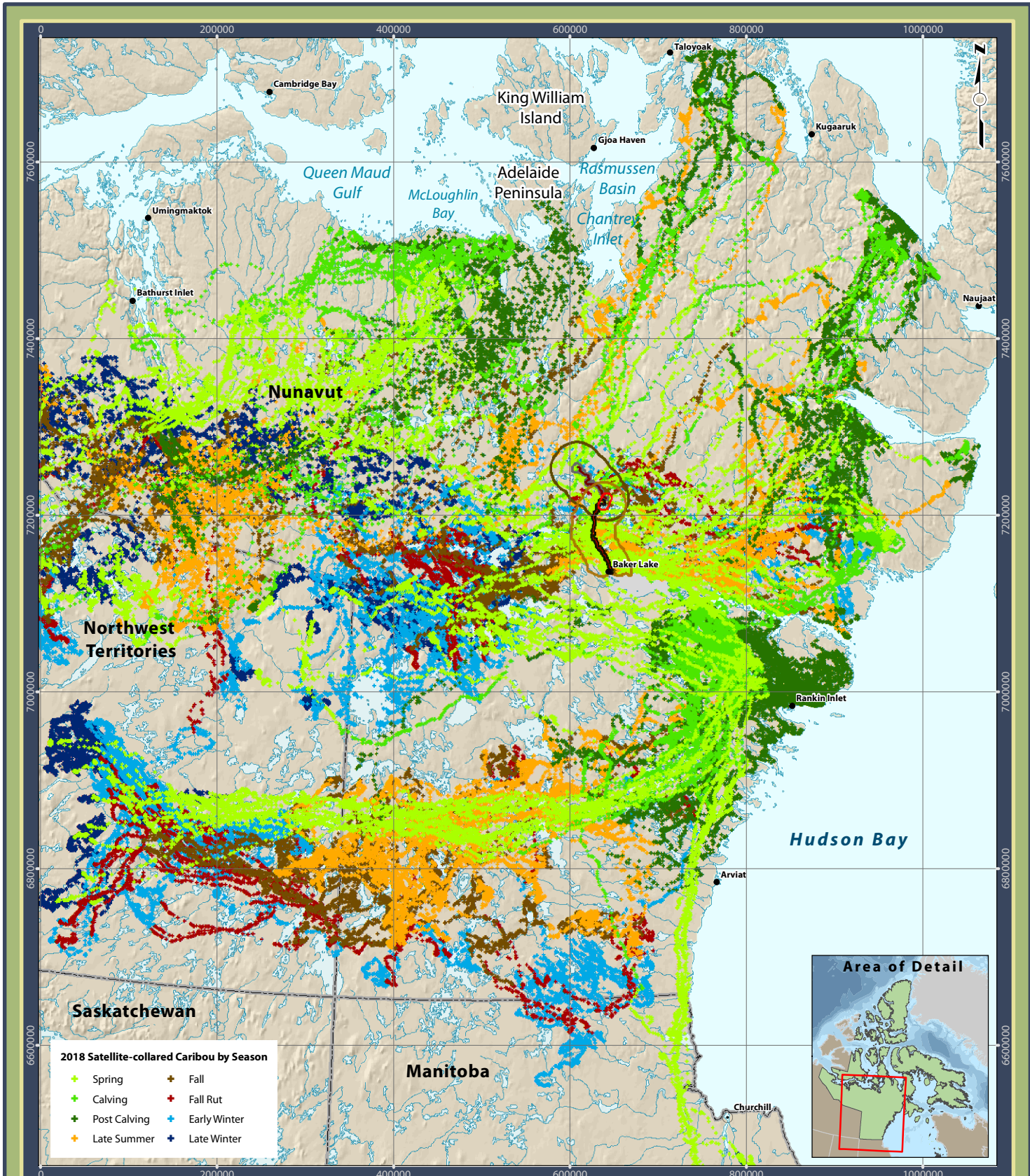
- 9 collars (Agnico Eagle) in May 2008;
- 21 collars (shared by Agnico Eagle and AREVA) in November 2009;
- 13 collars (Agnico Eagle) in April 2011;
- 15 collars (shared by Agnico Eagle and AREVA) in April 2013;
- 10 collars (Agnico Eagle) in April 2015; and
- 13 collars (Agnico Eagle) in May 2016.
- 36 collars (Agnico Eagle) in April 2018

Also included in **Section 6** figures are collared Caribou from the Qamanirjuaq herd, which are part of a separate GN program. These telemetry data are included because of the proximity of animals to the Meadowbank RSA. As discussed above, historical collar data have all been assigned to one of the five major sub-populations (Nagy et al. 2011).

6.6 2018 RESULTS

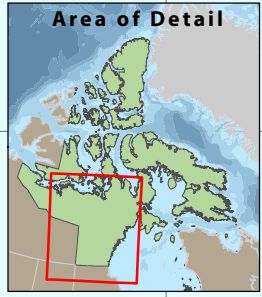
At the beginning of the 2018 monitoring year, only 10 collars were active, including four from the 2015 deployment and six from the 2016 deployment. In April 2018, a further 36 collars were deployed in the Baker Lake area. By the end of 2018, a total of 40 collars were active, comprised of three from the 2015 deployment, four from 2016 deployment, and 33 from the 2018 deployment. A summary of 2018 locations and movement patterns for Caribou collared around Baker Lake by season is described below and summarized in **Figure 6.1**. Seasonal movements of collared Caribou in close proximity to the Meadowbank RSA and LSA in 2018 are shown in **Figure 6.2**.

¹ Data are often retrieved on a daily basis but may vary depending on signal strength and weather conditions.

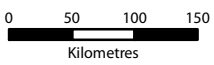


2018 Satellite-collared Caribou by Season

+	+
+	+
+	+
+	+



- Legend**
- All-Weather Access Road
 - Whale Tail Haul Road
 - Meadowbank All-Weather Access Road Local Study Area (LSA)
 - Meadowbank Local Study Area (LSA)
 - Meadowbank Regional Study Area (RSA)
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
 - Whale Tail Pit and Haul Road Regional Study Area (RSA)



Projection: UTM Zone 14 NAD83



Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories

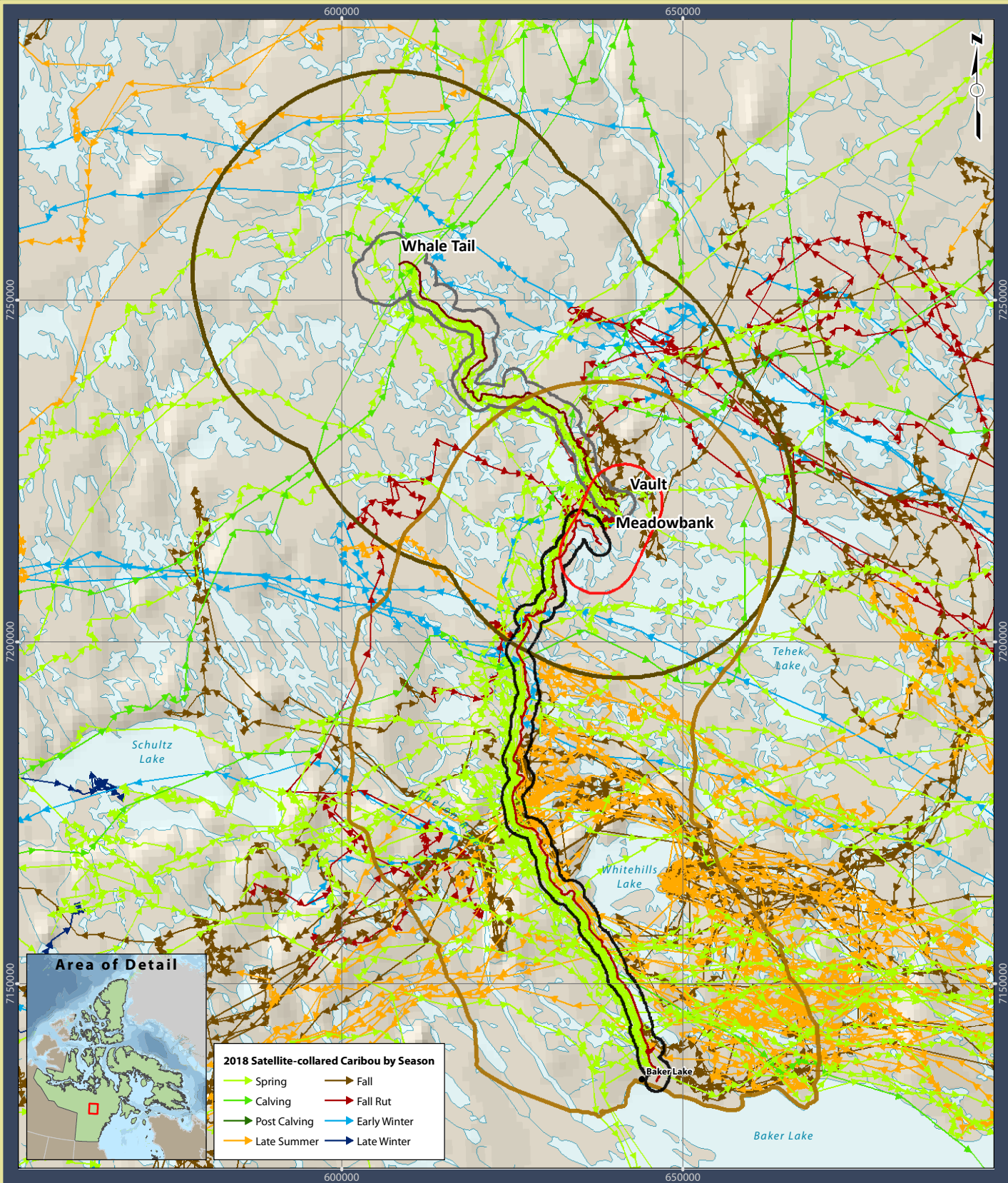
Figure 6.1: 2018 Government of Nunavut and Northwest Territories Telemetry Program Collar Locations

Meadowbank Gold Project

Prepared for:

By:



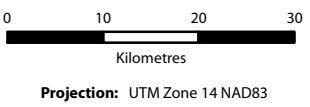


2018 Satellite-collared Caribou by Season

Spring	Fall
Calving	Fall Rut
Post Calving	Early Winter
Late Summer	Late Winter

Legend

- All-Weather Access Road
- Whale Tail Haul Road
- Meadowbank Local Study Area (LSA)
- Meadowbank All-Weather Access Road Local Study Area (LSA)
- Meadowbank Regional Study Area (RSA)
- Whale Tail Pit and Haul Road Local Study Area (LSA)
- Whale Tail Pit and Haul Road Regional Study Area (RSA)



Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories

Figure 6.2: 2018 Caribou Telemetry Data – Collar Movements in the RSA

Meadowbank Gold Project

Prepared for:

By:

2018 WILDLIFE MONITORING SUMMARY

Movements for Qamanirjuaq herd collared animals, a program also supported by Agnico Eagle, and animals collared by the Government of the Northwest Territories (GNWT) are provided for context in **Figure 6.1**. No additional collaring of the Qamanirjuaq herd was conducted in 2018; however, 43 collars were active (i.e., 12 from the 2015 deployment, 8 from 2016, and 23 from 2017) and monitoring movements of the Qamanirjuaq herd at the end of 2018. Seasonal movements of all collared Caribou are discussed below.

Late Winter (January 1 to March 31)

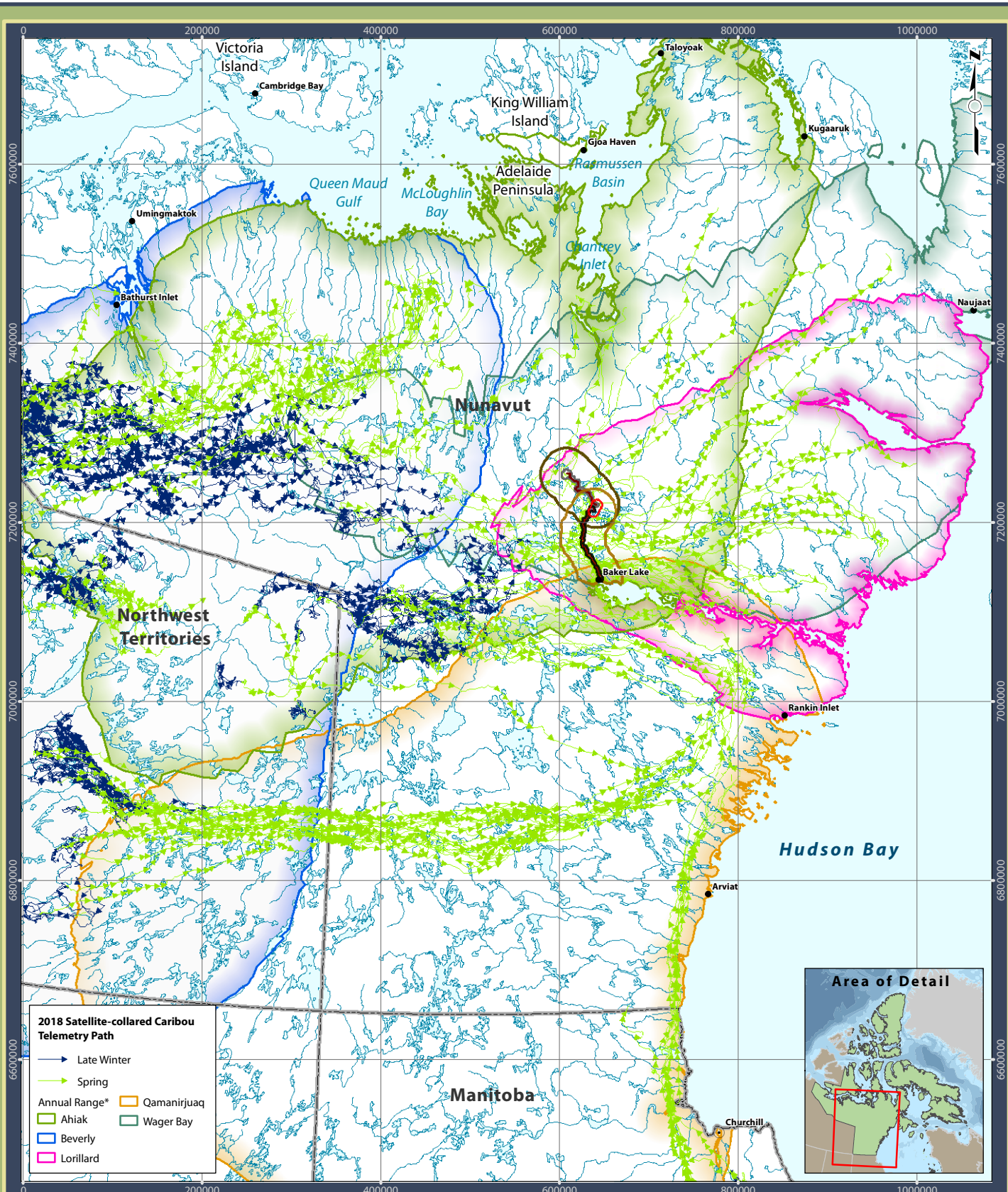
During the late winter season in 2018, a large group of animals collared around Baker Lake was found well west of the Meadowbank and Whale Tail RSAs in a broad area north and south of the Thelon River (**Figure 6.3**). Most of these animals were from the Lorillard, Wager Bay, and Ahiak herds, but some were also from the Qamanirjuaq herd, which typically does not intermingle with the other three herds. Another large group of Qamanirjuaq collared animals were present in the northeast corner of the Northwest Territories while a third group was present in eastern Manitoba south of Churchill. Unlike in 2017, no collared animals were found in northern Saskatchewan in 2018. Collared animals wintering in northwestern Nunavut and south of Bathurst Inlet were primarily from the Beverly herd.

To date, Caribou collared in the Baker Lake area have not been present within the Meadowbank or Whale Tail LSAs or RSAs during the late winter season; however, historical data for other satellite-collared animals have shown wintering Caribou from the Lorillard, Wager Bay, and Qamanirjuaq herds as occurring within the Meadowbank RSA. Mine site ground surveys did observe small groups of Caribou during the late winter season on a number of occasions (see **Table 4.2** and **Appendix E**) but only a 27 January observation of 19 Caribou resulted in a road closure (see **Table 4.1**).

Spring (April 1 to May 25)

Many collared animals were present throughout the Meadowbank and Whale Tail RSAs and LSAs during spring 2018 (**Figures 6.2, 6.3** and **6.8**). Collared animals were primarily from the Lorillard herd, but individuals from the Wager Bay and Ahiak herds were also present. **Figure 6.2** clearly shows an interaction with the Meadowbank AWAR and Whale Tail Haul Road on the western migration. The large number of Caribou moving through the area required multiple road closures on the Meadowbank AWAR, Vault Haul Road, and Whale Tail Haul Road (see **Tables 3.4** to **3.6**, respectfully). Collared Caribou eventually made their way across the road, which may have been in response to the multiple road closures.

Collared individuals wintering in the Bathurst Inlet area moved toward the Beverly and Ahiak calving grounds but did not migrate near the Meadowbank RSA (**Figure 6.3**). Qamanirjuaq collared animals underwent an extensive eastern migration from the two primary wintering areas in Nunavut and Northwest Territories and a northern migration from Manitoba wintering grounds. Collared animals from all three groups migrated toward calving grounds south of Chesterfield Inlet between Rankin Inlet and Baker Lake.

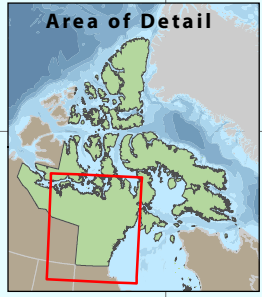


2018 Satellite-collared Caribou Telemetry Path

- Late Winter
- Spring

Annual Range*

- Qamanirjuaq
- Ahiak
- Beverly
- Lorillard
- Wager Bay



- Legend**
- All-Weather Access Road
 - Whale Tail Haul Road
 - Meadowbank Local Study Area (LSA)
 - Meadowbank All-Weather Access Road Local Study Area (LSA)
 - Meadowbank Regional Study Area (RSA)
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
 - Whale Tail Pit and Haul Road Regional Study Area (RSA)

* Official home ranges and calving grounds are from the following publication:
 Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifer tarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].

0 50 100 150
 Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories

Figure 6.3: 2018 Caribou Telemetry Data – Late Winter and Spring Seasons (January 1 - May 25)

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Calving (May 26 to June 25)

Several collared animals from the Wager Bay and Ahiak herds moved quickly through the Meadowbank and Whale Tail study areas in a northeast direction early during the calving period (see **Figures 6.2** and **6.4**). A few road closures were necessary along the Whale Tail Road in late May as lingering animals migrated through the area (see **Table 3.6**). No collared Caribou remained within the Meadowbank and Whale Tail RSAs during the calving season. Interestingly, many small groups of Caribou were recorded during the calving period within the Meadowbank and Whale Tail LSAs by mine personnel (see **Table 4.2** and **Appendix E**). Primary behavior recorded was walking and grazing and no indications of calving were noted (see **Appendix E**).

Many of the Baker Lake collared animals headed east to calving grounds between Chesterfield Inlet and Wager Bay (Lorillard herd), and north of Wager Bay (Wager Bay herd) (see **Figure 6.4**). Most of the collared Caribou from the Qamanirjuaq herd remained near their traditional calving grounds south of Chesterfield Inlet but a few individuals migrated north across Chesterfield Inlet to the Lorillard herd calving grounds early during the calving period. Presumably these were Lorillard individuals that had wintered with the one group of Qamanirjuaq animals near the Thelon River.

Other collared Caribou (Ahiak and Beverly herds) spent the calving season south of Adelaide Peninsula, in the vicinity of Mcloughlin Bay, and east of Rasmussen Basin (**Figure 6.4**).

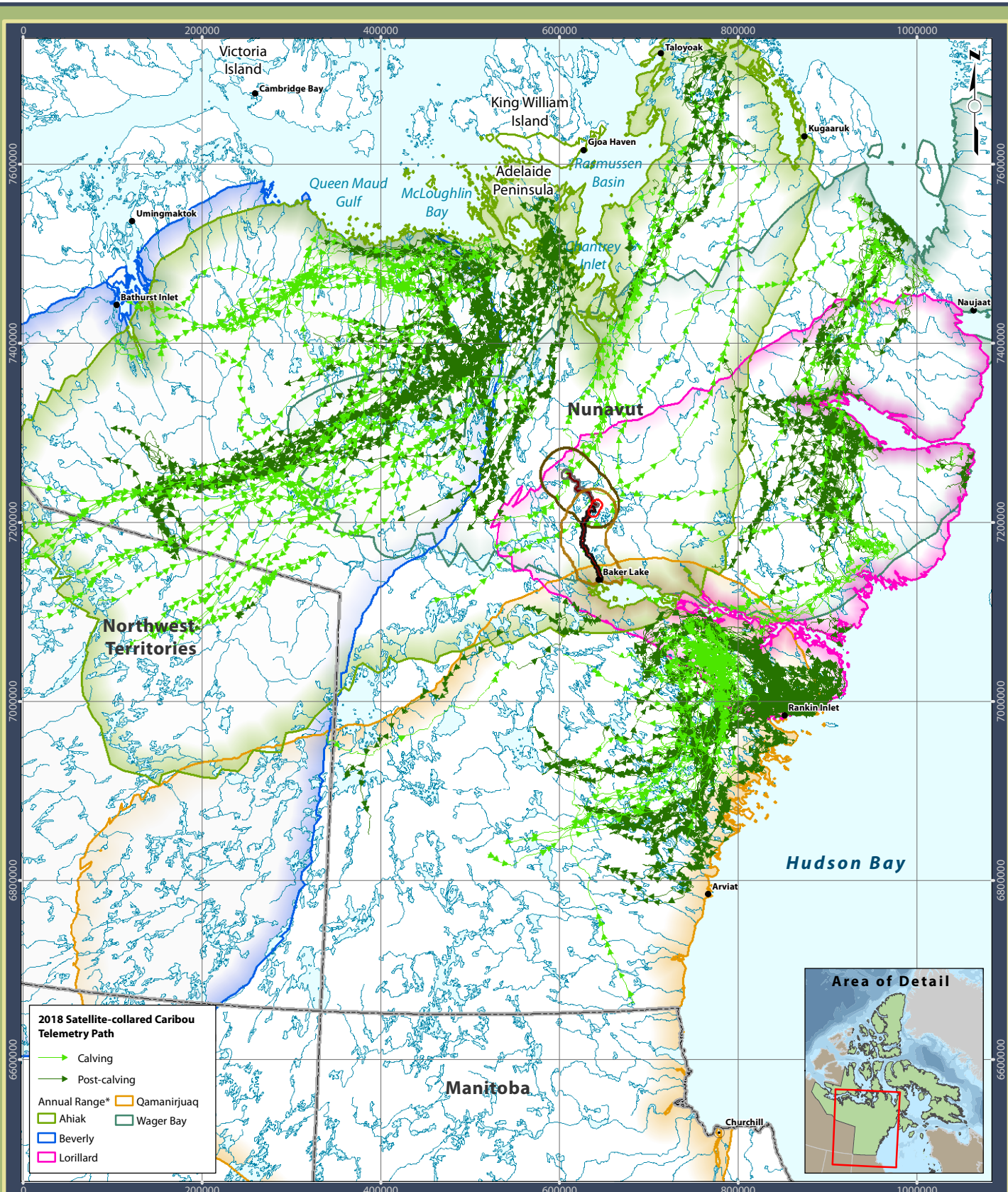
Post-Calving (June 25 to July 31)

No collared Caribou were recorded within the Meadowbank or Whale Tail RSAs during the post-calving season in 2018 although Caribou were commonly reported by mine personnel (see **Table 4.2** and **Appendix E**). Each of the herds exhibited variable migrations following the calving season. Collared animals from the more northern Wager Bay calving grounds lingered in the area north of Wager Bay, while Lorillard animals remained between Wager Bay and Chesterfield Inlet (**Figure 6.4**). Beverly and Ahiak animals first moved east to just west of Chantrey Inlet and then began a fairly rapid migration in a southern and southwestern direction. Qamanirjuaq collared animals first moved east to an area north of Rankin Inlet and then in a southwest direction to an area northwest of Arviat (**Figure 6.4**).

Late Summer (August 1 to September 15)

Collared Caribou from the Lorillard and Wager Bay herds migrated south and then west interacting with the Meadowbank AWAR (see **Figures 6.2, 6.5** and **6.8**). The road again appeared to act as a barrier for a period of time although all collared animals eventually making their way across. It also appears that some of the animals approaching the road in late summer were deflected and did not cross the road until the fall (see next section) (see **Figure 6.8**). Observations from mine site records during this period were of small to medium-sized groups of Caribou along the Meadowbank AWAR and Whale Tail Haul Road (see **Appendix E**). In several instances, the road needed to be closed to allow Caribou to pass (see **Table 4.1**).

Collared animals from the Ahiak and Beverly herds continued to move in a southern and western direction while Qamanirjuaq collared animals moved eastward with some animals reaching northwestern Northwest Territories by the end of late summer (**Figure 6.5**).



2018 Satellite-collared Caribou Telemetry Path

- Calving
- Post-calving

Annual Range*

- Qamanirjuaq
- Ahiak
- Beverly
- Lorillard

Legend

- All-Weather Access Road
- Whale Tail Haul Road
- Meadowbank Local Study Area (LSA)
- Meadowbank All-Weather Access Road Local Study Area (LSA)
- Meadowbank Regional Study Area (RSA)
- Whale Tail Pit and Haul Road Local Study Area (LSA)
- Whale Tail Pit and Haul Road Regional Study Area (RSA)

0 50 100 150
Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories



Figure 6.4: 2018 Caribou Telemetry Data – Calving and Post-calving Seasons (May 26 - July 31)

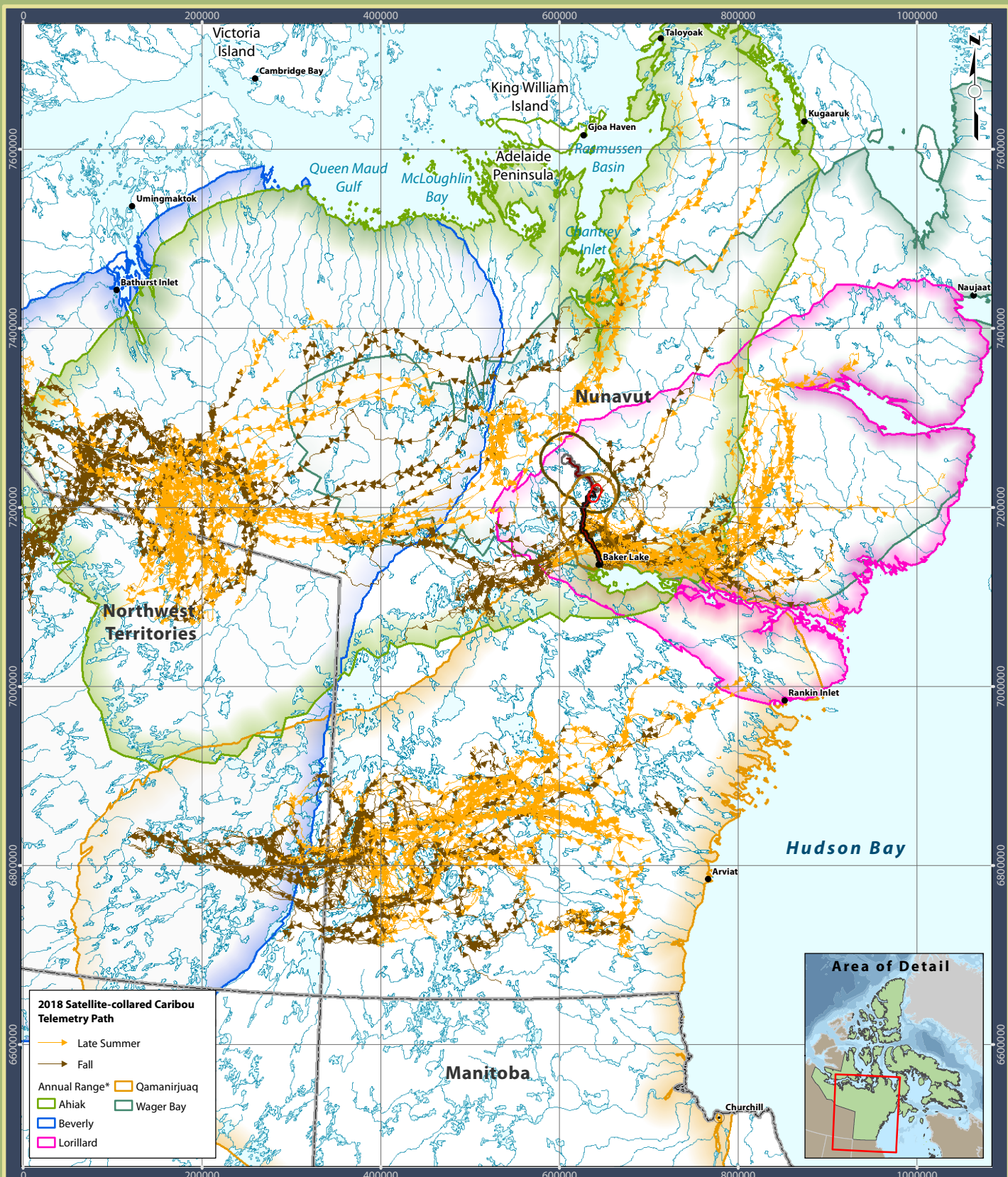
Meadowbank Gold Project

Prepared for:  **AGNICO EAGLE**

By:  **NUNAVUT ENVIRONMENTAL CONSULTING LTD**

 **CASLYS CONSULTING**

* Official home ranges and calving grounds are from the following publication:
 Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly,
 M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou
 (Rangifer tarandus L.) in arctic and subarctic Canada. Ecological Applications
 [doi:10.1890/10-1410.1].



2018 Satellite-collared Caribou Telemetry Path

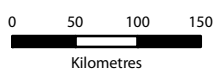
- Late Summer
- Fall

Annual Range*

- Qamanirjuaq
- Ahiak
- Beverly
- Lorillard
- Wager Bay

- Legend**
- All-Weather Access Road
 - Whale Tail Haul Road
 - Meadowbank Local Study Area (LSA)
 - Meadowbank All-Weather Access Road Local Study Area (LSA)
 - Meadowbank Regional Study Area (RSA)
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
 - Whale Tail Pit and Haul Road Regional Study Area (RSA)

* Official home ranges and calving grounds are from the following publication: Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifer tarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories



Figure 6.5: 2018 Caribou Telemetry Data – Late Summer and Fall Seasons (August 1 - October 14)

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Fall (September 16 to October 14)

Some of the Lorillard and Wager Bay animals that did not cross the Meadowbank Road during late summer crossed successfully during the fall season, particularly those animals north of Whitehills Lake (see **Figures 6.2, 6.5 and 6.8**). Others, primarily along the Whale Tail Haul Road north of the Vault and south of Whitehills Lake appeared to move away from the road in a northeastern direction, remaining east of the road during the fall rut (see **Figures 6.2 and 6.8**). Mine records indicate that small to moderate groups of Caribou were seen within the mine LSAs during the fall period (see **Table 4.2 and Appendix E**). Only one road closure on 27 September along the Meadowbank AWAR was required during this period (see **Table 3.4 and Table 4.1**).

Collared animals from the Ahiak and Beverly herds continued to migrate in a southwestern direction and were generally located south of Bathurst Inlet (**Figure 6.5**). Collared Qamanirjuaq animals continued moving eastward into northwestern Northwest Territories (**Figure 6.5**).

Fall Rut (October 15 to November 7)

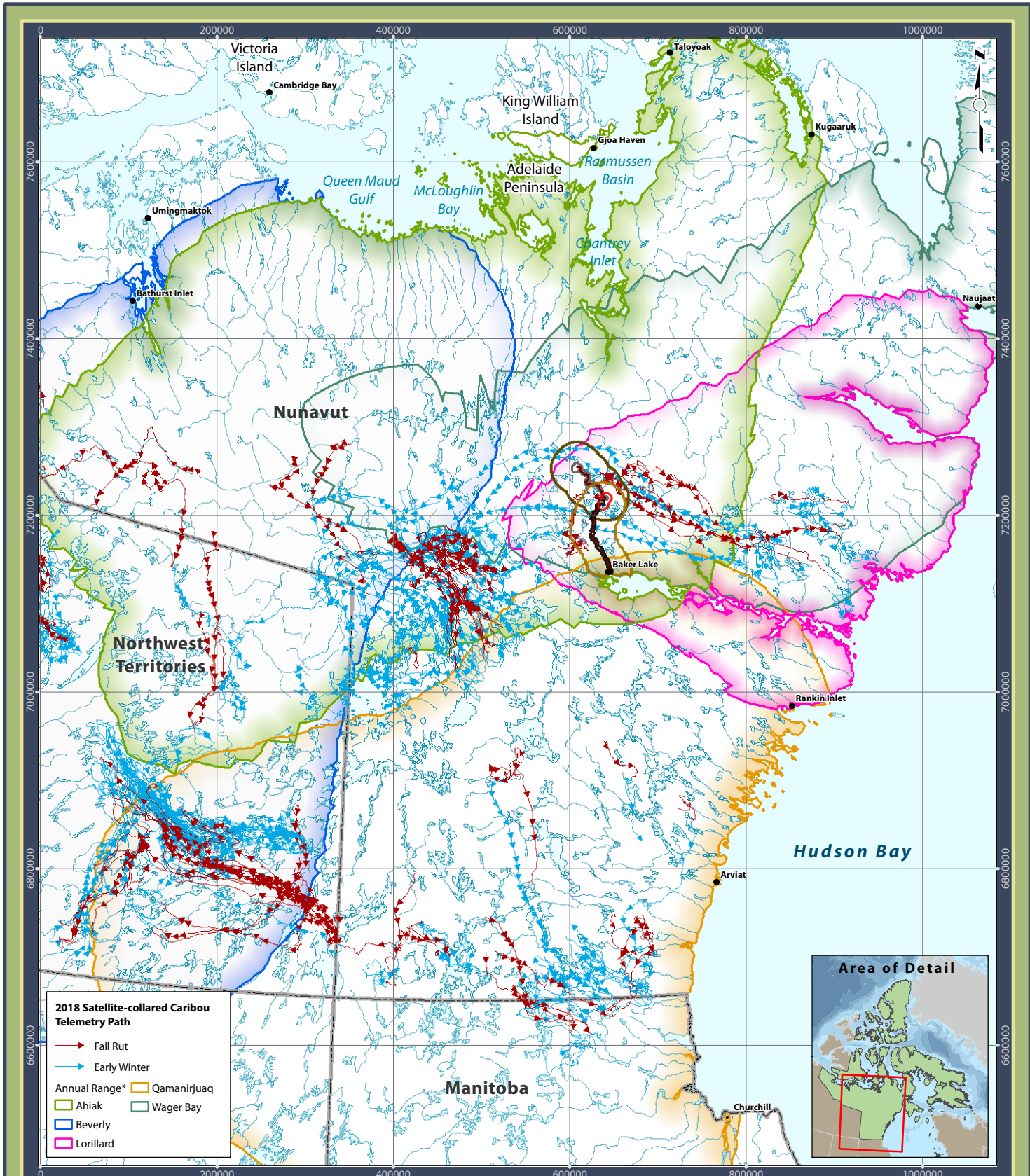
Limited activity by collared Caribou occurred within the RSAs during the fall rut (see **Figures 6.2 and 6.6**). Activity was noted west of the Meadowbank AWAR opposite Whitehills Lake and northeast and east of the Vault and Meadowbank Mine sites (**Figure 6.2**). Herds of up to 1,000 Caribou were observed during this period primarily along the AWAR and both haul roads (see **Table 4.1 and Appendix E**), and the Vault and Whale Tail haul roads were all closed or under restricted access at different times at the end of October (see **Tables 3.5 and 3.6**).

During the fall rut season, collared Caribou were generally distributed in four discrete areas. The Lorillard herd was observed west of Baker Lake and east of the Meadowbank Mine site while the Qamanirjuaq herd was located in northeastern Northwest Territories and along the Manitoba/Nunavut border (**Figure 6.6**). Ahiak and Beverly collared animals were well to the west in northern Northwest Territories.

Early Winter (November 8 to December 31)

Some of the collared animals that had spent the fall rut east of the Meadowbank RSA moved westward toward an area north of the Thelon River (**Figure 6.6**). Two animals moved across the Meadowbank AWAR south of Tehek Lake while three individuals migrated through the Whale Tail RSA north of the Whale Tail site (see **Figure 6.2**). Up to 300 Caribou were observed along the Vault Road on 23 November requiring temporary closure of the road (see **Table 4.1 and Appendix E**).

Other early winter locations for collared animals included an area between Chesterfield Inlet and Wager Bay (Lorillard herd), the Thelon River and Aberdeen Lake area (Lorillard, Wager Bay and Ahiak herds), the Manitoba/Nunavut border (Qamanirjuaq herd), northwestern Northwest Territories (Qamanirjuaq herd), and northern Northwest Territories (Ahiak and Beverly herds) (**Figure 6.6**).



2018 Satellite-collared Caribou Telemetry Path

- Fall Rut
- Early Winter

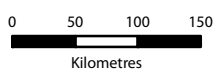
Annual Range*

- Qamanirjuaq
- Ahiak
- Beverly
- Lorillard
- Wager Bay

Legend

- All-Weather Access Road
- Whale Tail Haul Road
- Meadowbank Local Study Area (LSA)
- Meadowbank All-Weather Access Road Local Study Area (LSA)
- Meadowbank Regional Study Area (RSA)
- Whale Tail Pit and Haul Road Local Study Area (LSA)
- Whale Tail Pit and Haul Road Regional Study Area (RSA)

* Official home ranges and calving grounds are from the following publication:
 Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifer tarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories

Figure 6.6: 2018 Caribou Telemetry Data – Fall Rut and Early Winter Seasons (October 15 - December 31)

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All Seasons

An overview of collared Caribou distribution in 2018 for all seasons is provided in **Figure 6.1**. These data include all remaining active collars from 2015, 2016, and 2018 deployments around the Baker Lake area. General trends in seasonal distribution are evident and generally comparable to findings from previous years for animals collared in this area. Collared Caribou calved (medium green symbol) in five distinct areas: 1) around McLoughlin Bay and Rasmussen Basin and Kugaaruk (Ahiak herd); 2) north and west of Repulse Bay (Wager Bay herd); 3) between Chesterfield Inlet and Wager Bay, towards Hudson Bay (Lorillard herd); 4) south of Chesterfield Inlet in the traditional calving grounds of the Qamanirjuaq herd; and 5) along the Queen Maud Gulf and McLoughlin Bay (Beverly). By the end of 2018, collared animals were congregated either between Aberdeen Lake and Dubawnt Lake, on Qamanirjuaq wintering grounds in the Northwest Territories or between Churchill and Arviat, and in northern Northwest Territories.

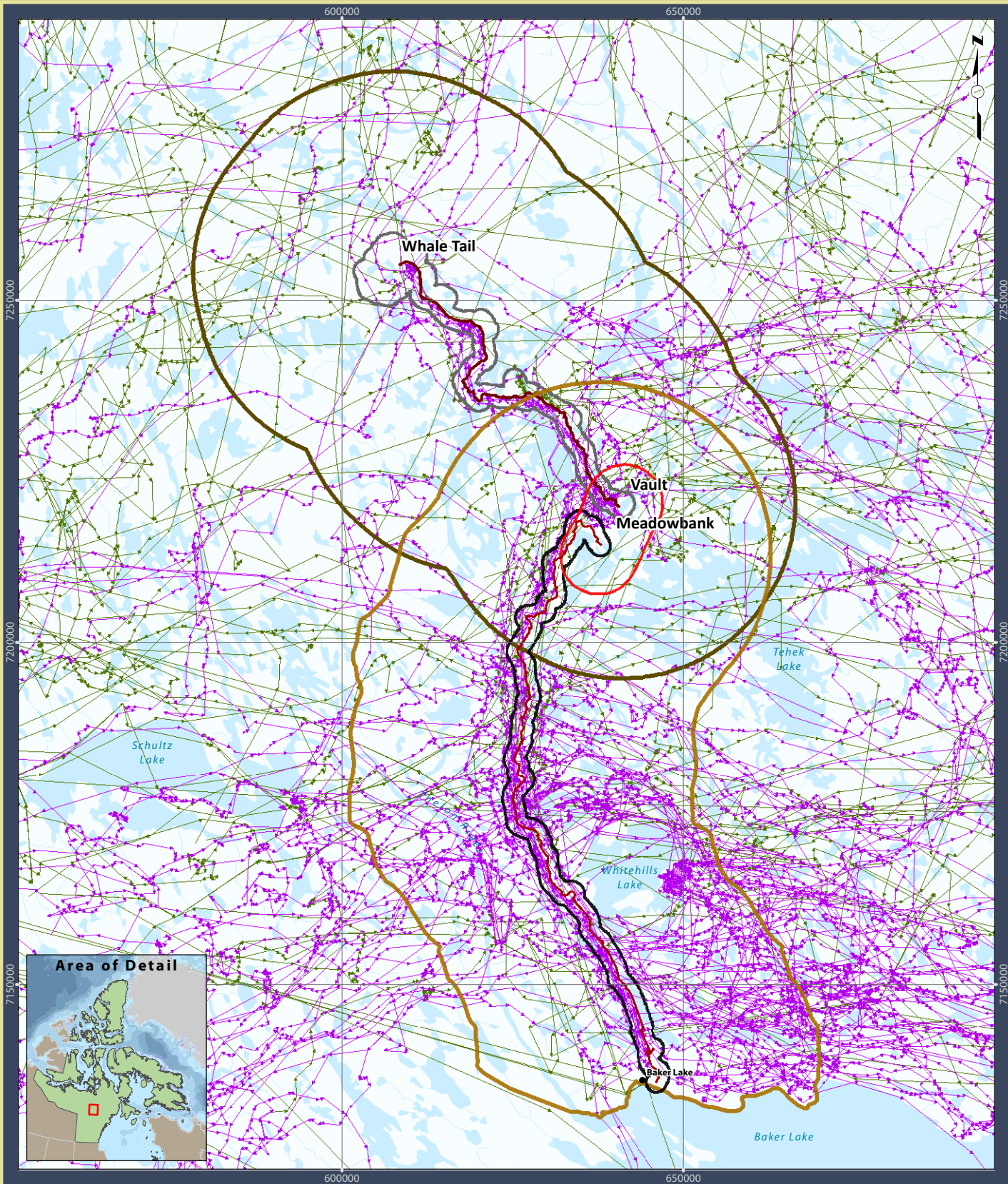
As in most monitoring years to date, few collared Caribou were found within the Meadowbank and Whale Tail RSAs during the calving or post-calving seasons. In addition, no collared individuals were found in the RSAs during the late winter season. Within the Meadowbank and Whale Tail RSAs, collared Caribou were present predominantly during the spring, late summer, and fall periods (**Figure 6.2**). As was the case in 2016, many collared Caribou appeared to be deflected by the Meadowbank AWAR and the Whale Tail Haul Road resulting in delays in migrating across the roads (**Figures 6.2** and **6.8**).

At the end of 2018, 40 satellite collars originally deployed near Baker Lake continued to be active and tracked, with results being downloaded on a regular basis. Caribou collaring maps are posted at the Meadowbank mine site for staff to observe; however, maps are slightly out of date and do not depict current locations (i.e., in order not to facilitate hunting pressure).

6.7 CARIBOU MIGRATION PATTERNS

A summary of Caribou migration patterns, which synthesizes migration information from satellite-collaring data to 2012 and was developed by the GN for the spring and fall migrations, was provided in the 2014 annual report. The seasonal range maps are currently being updated by the GN and will include an update on migration corridors. As these figures have not been updated, they are not discussed in this year's report.

Figure 6.7 shows all walk lines of collared Caribou within the Meadowbank RSA since 2011 (i.e., eight years of data). Collared animals are observed throughout the RSA (typically around spring and fall migratory periods). A pattern of animals being deflected from the AWAR is evident based on an analysis of data from 2011 to 2018 (**Figures 6.7** and **6.8**).



- Legend**
- All-Weather Access Road
 - Whale Tail Haul Road
 - Meadowbank Local Study Area (LSA)
 - Meadowbank All-Weather Access Road Local Study Area (LSA)
 - Meadowbank Regional Study Area (RSA)
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
 - Whale Tail Pit and Haul Road Regional Study Area (RSA)
 - Satellite-collared Caribou 2018
 - Satellite-collared Caribou 2011-2017



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories



Figure 6.7: Comparison of 2018 Caribou Telemetry Data in the Meadowbank and Whale Tail RSA to Historic Data (2011-2017)

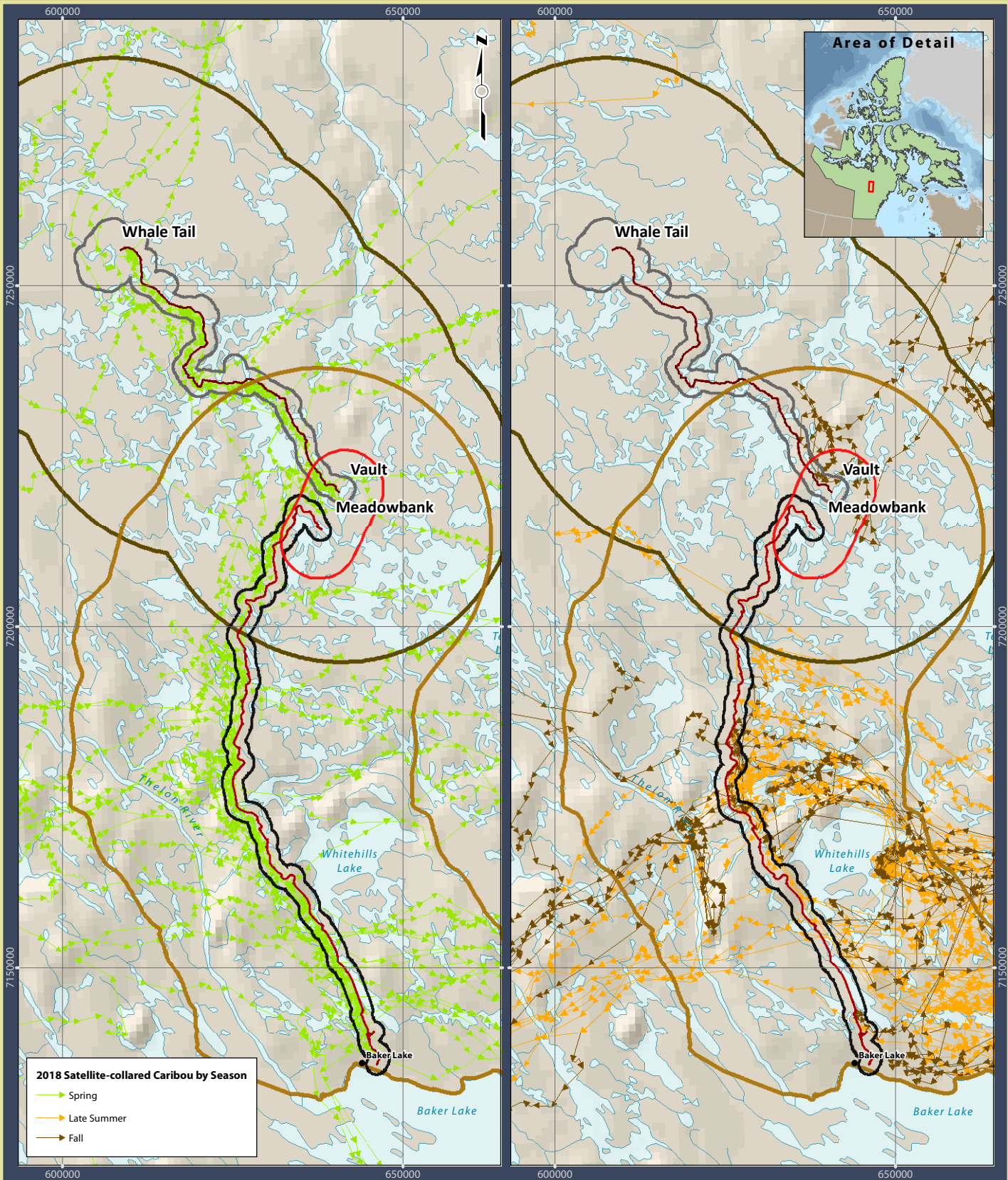
Meadowbank Gold Project

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By:

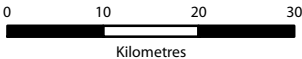




2018 Satellite-collared Caribou by Season

- Spring
- Late Summer
- Fall

- Legend**
- All-Weather Access Road
 - Whale Tail Haul Road
 - Meadowbank Local Study Area (LSA)
 - Meadowbank All-Weather Access Road Local Study Area (LSA)
 - Meadowbank Regional Study Area (RSA)
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
 - Whale Tail Pit and Haul Road Regional Study Area (RSA)



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database,
 Agnico-Eagle Mines Limited,
 Department of Environment
 (Gov't of Nunavut),
 Gov't of Northwest Territories



Figure 6.8: Collar movements in the RSA by season

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By:



6.8 ACCURACY OF IMPACT PREDICTIONS

A summary of the impact predictions identified in the TEMP is provided in **Table 6.1**. The 2018 satellite-collaring data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

Table 6.1: Accuracy of Impact Predictions – Satellite-collaring Data

Potential Effect	Threshold	Threshold Exceeded (2018)	Adaptive Management Implemented	Status
Sensory Disturbance	Mine-related construction and operation activities will not preclude Caribou and Muskoxen from using suitable habitats beyond 500 m of mine buildings, facilities and roads. Threshold is unnatural caribou use patterns beyond 1,000 m.	YES. Deflections noted when Caribou approach the road. Delayed crossing of roads.	YES. Multiple road closures and notices. Use of Decision Tree for management and monitoring. Ongoing analysis by GN (in partnership with Agnico Eagle)	Satellite-collaring data Daily and weekly pit and mine-site ground surveys AWAR and Haul Road surveys HOL Surveys Motion sensing cameras
Hunting by Baker Lake Residents	Caribou herds will not be significantly affected by year-round access to the RSA.	Not completed in 2018	NA	Satellite-collaring data Hunter Harvest Study

6.9 MANAGEMENT RECOMMENDATIONS

The 2018 satellite-collaring data depicted Caribou movements within and through the Meadowbank and Whale Tail RSAs and LSAs during most seasons but particularly during spring, late summer, and fall. Most 2018 Caribou activity was observed during the spring migration requiring numerous road closures and restrictions along the Meadowbank AWAR and the haul roads. The roads were also observed to be deflecting many of the collared Caribou during the spring, late summer, and fall seasons (**Figure 6.8**). Although 2017 collar data showed fewer road-related effects, 2015 and 2016 collar data also observed that the AWAR appeared to be altering natural movement patterns of collared Caribou. Agnico Eagle and regulatory agencies are committed to conducting more detailed analyses of Caribou monitoring data, satellite collar data, hunter harvest activity, and other potential influences on Caribou movement and migration to adaptively manage and minimize project-related effects on Caribou. Agnico Eagle will also explore the link between Caribou road crossings and road closures.

Agnico Eagle environment department should continue to closely monitor Caribou movement in the weeks leading up to seasonal migrations using the latest available satellite-collaring and monitoring data (e.g., road and HOL surveys) as well as incidental reports from staff. As a proactive adaptive management strategy, notification and announcements, staff re-education, specific dispatch protocols, and temporary road closures should continue to be implemented. Where applicable, Caribou management and monitoring should be conducted according to protocols outlined in the 2018 TEMP, including continued use of a decision tree. Issues and concerns that arise should be discussed with regulatory personnel and during TAG meetings to ensure that a balance is achieved between Caribou protection and conservation, and mine operation. Infographic tools developed to assist in presenting and educating site staff and road users on key information and actions should continue to be used.

SECTION 7 • HEIGHT OF LAND MONITORING

7.1 OVERVIEW

The purpose of the Height of Land (HOL) surveys is to serve as another level of Ungulate monitoring along the Whale Tail Haul Road.

7.2 OBJECTIVES

The HOL surveys provide an 'early warning' system of the presence of Caribou in proximity to the Whale Tail Pit and Haul Road.

7.3 DURATION

The HOL surveys are scheduled to be conducted once per week from January to April and from July to August. From May to June and September to December, the prime migratory period for Caribou, the frequency of surveys will increase to twice per week unless triggers (see **Section 9**) require surveys every two days.

7.4 METHODOLOGY

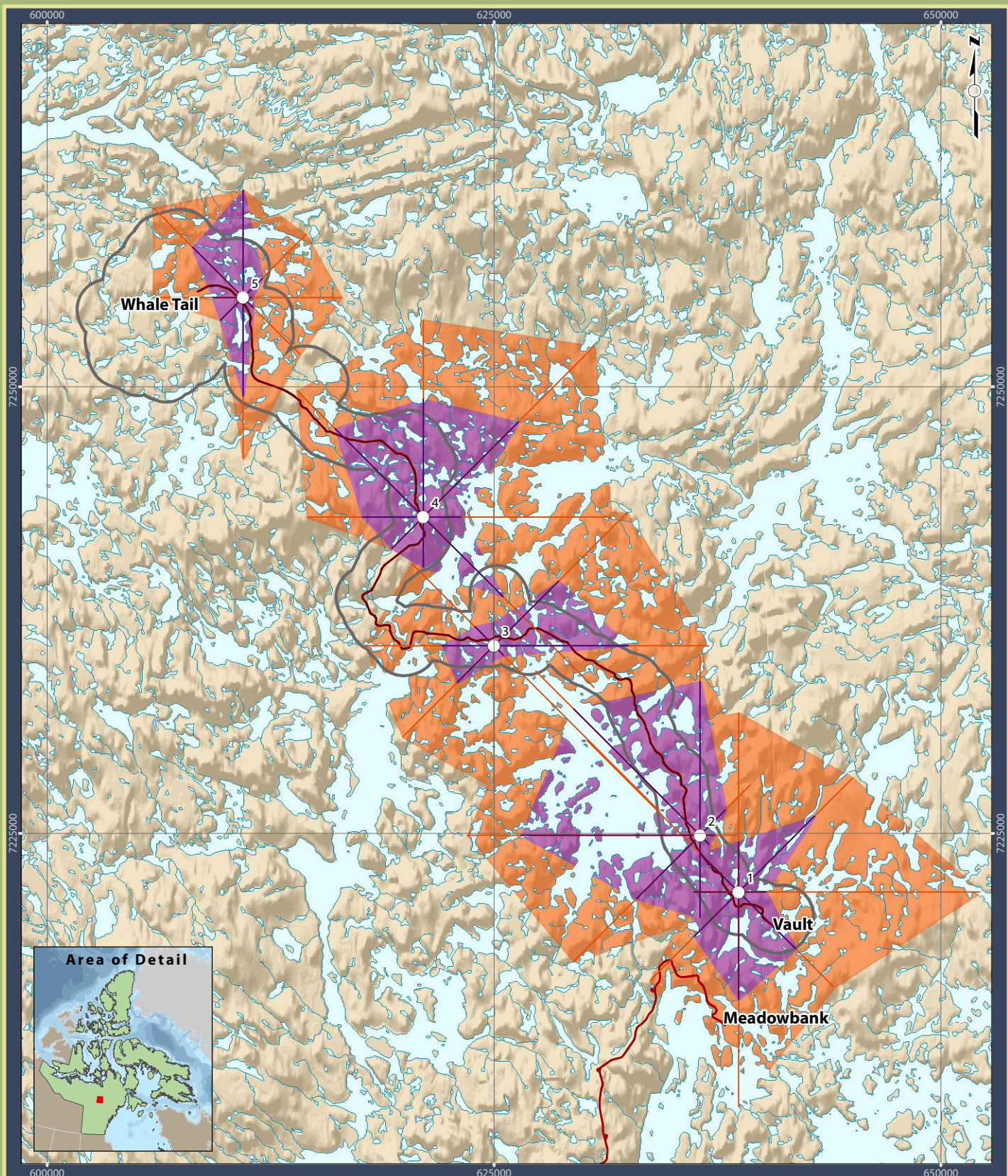
Five easily accessible HOL survey locations were established in 2017 along the Whale Tail Haul Road (see **Figure 7.1**; Dougan 2017). The locations are within 500 m of the Whale Tail Pit Haul Road and provide an unobstructed view (up to 360°) of the surrounding terrain. While conducting the ground surveys, two observers stop at the HOL locations and survey the area for 20 minutes using a combination of naked eye, binoculars, and scope. The surveyors independently view the landscape for Caribou starting at opposite cardinal directions and scan 180° for five minutes at a time, but move 90° every 5 minutes. Results are then compared to determine if Caribou Group Size Threshold (GST; see **Section 9**) is triggered, but consensus on numbers is not necessary as each survey will generate a separate result for each observer so that variability can be incorporated into detection rates.

7.5 2018 RESULTS

Fifteen HOL surveys were conducted between 26 August and 13 December 2018. Because of weather-related issues, not all five HOL locations could be surveyed on each of the survey days. Survey details are provided in **Table 7.1** while raw data is provided in **Appendix G**.

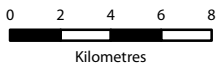
7.6 MANAGEMENT RECOMMENDATIONS

In 2019, HOL surveys should be conducted as per the schedule outlined in **Section 7.3 Duration** above. Results from the surveys should be analysed and discussed at TAG meetings to determine whether they are an effective 'early warning' system, as initially intended, for Caribou presence near project facilities.



Legend

- Whale Tail Haul Road
- All-Weather Access Road
- Whale Tail Pit and Haul Road Local Study Area (LSA)
- Height-of-Land Survey Location
- Sightline**
- Lowlands
- Highlands
- Maximum Observable Area**
- Lowlands
- Highlands



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 7.1 Location of Height-of-Land Surveys along the Whale Tail Haul Road (and View Corridors)

Meadowbank Gold Project

Prepared for:
AGNICO EAGLE

By:
Nunavut ENVIRONMENTAL CONSULTING LTD

CASLYS CONSULTING

MEADOWBANK GOLD MINE PROJECT
2018 WILDLIFE MONITORING SUMMARY

Table 7.1: Height-of-Land Survey Data along the Whale Tail Haul Road in 2018.

Date (2018)	Observations (4 directions-360°)	Observers	HOL 1	HOL 2	HOL 3	HOL 4	HOL 5	Comments
26 Aug	N – 5 minutes	Patrick Ahern & Isabelle Couture	No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
19 Sep	N – 5 minutes	Martin Kreelak & Isabelle Couture	6 Caribou	No Caribou	No Caribou	No Caribou	No Caribou	Fresh Caribou tracks at HOL 2
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
03 Oct	N – 5 minutes	Martin Kreelak & Jonathan Pameolik	4 Muskox	4 Caribou	No Caribou	No Caribou	No Caribou	Wolverine tracks at HOL 1 and 3
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
07 Oct	N – 5 minutes	Patrick Ahern & Jonathan Pameolik	4 Muskox	Cancelled	Cancelled	Cancelled	Cancelled	Blizzard conditions beyond HOL 1; visibility >300m
	E – 5 minutes		Cancelled	Cancelled	Cancelled	Cancelled	Cancelled	
	S – 5 minutes		Cancelled	Cancelled	Cancelled	Cancelled	Cancelled	
	W – 5 minutes		Cancelled	Cancelled	Cancelled	Cancelled	Cancelled	
10 Oct	N – 5 minutes	Martin Kreelak & Patrick Ahern	No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	Wolverine tracks at HOL 1
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
17 Oct	N – 5 minutes	Martin Kreelak & Patrick Ahern	No Caribou	No Caribou	18 Caribou	No Caribou	No Caribou	Clear skies; visibility >5km
	E – 5 minutes		2 Muskox	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	

MEADOWBANK GOLD MINE PROJECT
2018 WILDLIFE MONITORING SUMMARY

Table 7.1: Continued.

Date (2018)	Observations (4 directions-360°)	Observers	HOL 1	HOL 2	HOL 3	HOL 4	HOL 5	Comments
18 Oct	N – 5 minutes	Martin Kreelak & Isabelle Couture	No Caribou	7 Muskox	No Caribou	No Caribou	No Caribou	Visibility <1km for HOL 1 and 2
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
21 Oct	N – 5 minutes	Charles Montbriand-Leduc & Isabelle Couture	100 Caribou (fall migration is starting slowly)	No Caribou	No Caribou	No Caribou	No Caribou	
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
08 Nov	N – 5 minutes	Patrick Ahem & Martin Kreelak	No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	Blowing snow with visibility <300m; winds 60km
	E – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	S – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
	W – 5 minutes		No Caribou	No Caribou	No Caribou	No Caribou	No Caribou	
28 Nov	N – 5 minutes	Charles Montbriand-Leduc & Martin Kreelak	No Survey	No Caribou	No Survey	No Caribou	No Caribou	
	E – 5 minutes		No Survey	No Caribou	No Survey	No Caribou	No Caribou	
	S – 5 minutes		No Survey	No Caribou	No Survey	No Caribou	No Caribou	
	W – 5 minutes		No Survey	No Caribou	No Survey	No Caribou	No Caribou	
29 Nov	N – 5 minutes	Martin Kreelak & Isabelle Couture	No Survey	No Survey	No Caribou	No Survey	No Survey	Muskox are feeding
	E – 5 minutes		No Survey	No Survey	2 Muskox	No Survey	No Survey	
	S – 5 minutes		No Survey	No Survey	No Caribou	No Survey	No Survey	
	W – 5 minutes		No Survey	No Survey	No Caribou	No Survey	No Survey	
06 Dec	N – 5 minutes	Martin Kreelak & Nicholas Saucier	No Survey	No Caribou	No Survey	No Caribou	No Caribou	
	E – 5 minutes		No Survey	No Caribou	No Survey	No Caribou	No Caribou	
	S – 5 minutes		No Survey	No Caribou	No Survey	No Caribou	No Caribou	
	W – 5 minutes		No Survey	No Caribou	No Survey	No Caribou	No Caribou	

MEADOWBANK GOLD MINE PROJECT
2018 WILDLIFE MONITORING SUMMARY

Table 7.1: Continued.

Date (2018)	Observations (4 directions-360°)	Observers	HOL 1	HOL 2	HOL 3	HOL 4	HOL 5	Comments
12 Dec	N – 5 minutes	Nicolas Saucier & Martin Kreelak	No Survey	No Survey	No Caribou	No Caribou	Caribou on the HOL but can't access without disturbing	HOL 1 and 2 cancelled due to poor visibility
	E – 5 minutes		No Survey	No Survey	No Caribou	No Caribou		
	S – 5 minutes		No Survey	No Survey	No Caribou	No Caribou		
	W – 5 minutes		No Survey	No Survey	No Caribou	No Caribou		
13 Dec	N – 5 minutes	Martin Kreelak & Nicholas Saucier	No Caribou	Caribou near the HOL but can't access without disturbing	No Survey	No Survey	No Survey	Poor weather conditions with blowing snow; HOL 3,4, and 5 cancelled
	E – 5 minutes		No Caribou		No Survey	No Survey	No Survey	
	S – 5 minutes		No Caribou		No Survey	No Survey	No Survey	
	W – 5 minutes		No Caribou		No Survey	No Survey	No Survey	
20 Dec	N – 5 minutes	Charles Montbriand-Leduc & Martin Kreelak	No Survey	No Survey	No Survey	No Caribou	No Survey	
	E – 5 minutes		No Survey	No Survey	No Survey	No Caribou	No Survey	
	S – 5 minutes		No Survey	No Survey	No Survey	No Caribou	No Survey	
	W – 5 minutes		No Survey	No Survey	No Survey	No Caribou	No Survey	

SECTION 8 • REMOTE CAMERA MONITORING

8.1 OVERVIEW

The use of remote cameras was first introduced in October 2018 as another technique to monitor Caribou interactions with project roads, equipment or other industrial features (e.g., roadside marker flags). The approach is one of several monitoring techniques to ensure that the best Caribou management practices and mitigation are implemented for the project.

8.2 OBJECTIVES

The primary objective of using remote cameras is to monitor Caribou interactions with project roads and equipment, and adapt management practices and mitigation as required.

8.3 DURATION

The use of remote cameras will continue indefinitely but camera results will be analyzed and discussed at TAG meetings to ensure that the monitoring objectives are being achieved.

8.4 METHODOLOGY

Remote cameras can be used and set to be triggered based on motion/heat and/or on a time series to view video footage of Caribou interaction with project infrastructure such as roads and equipment.

Twenty remote cameras were set-up between October 22 and 29, 2018 at strategic locations along the road (see **Figure 8.1**). Cameras were checked on a weekly basis by environment staff to verify battery life and to clear snow from the lens, while photos were uploaded on an approximate monthly basis. Camera were removed on 16 December once the Caribou migration was determined to be finished.

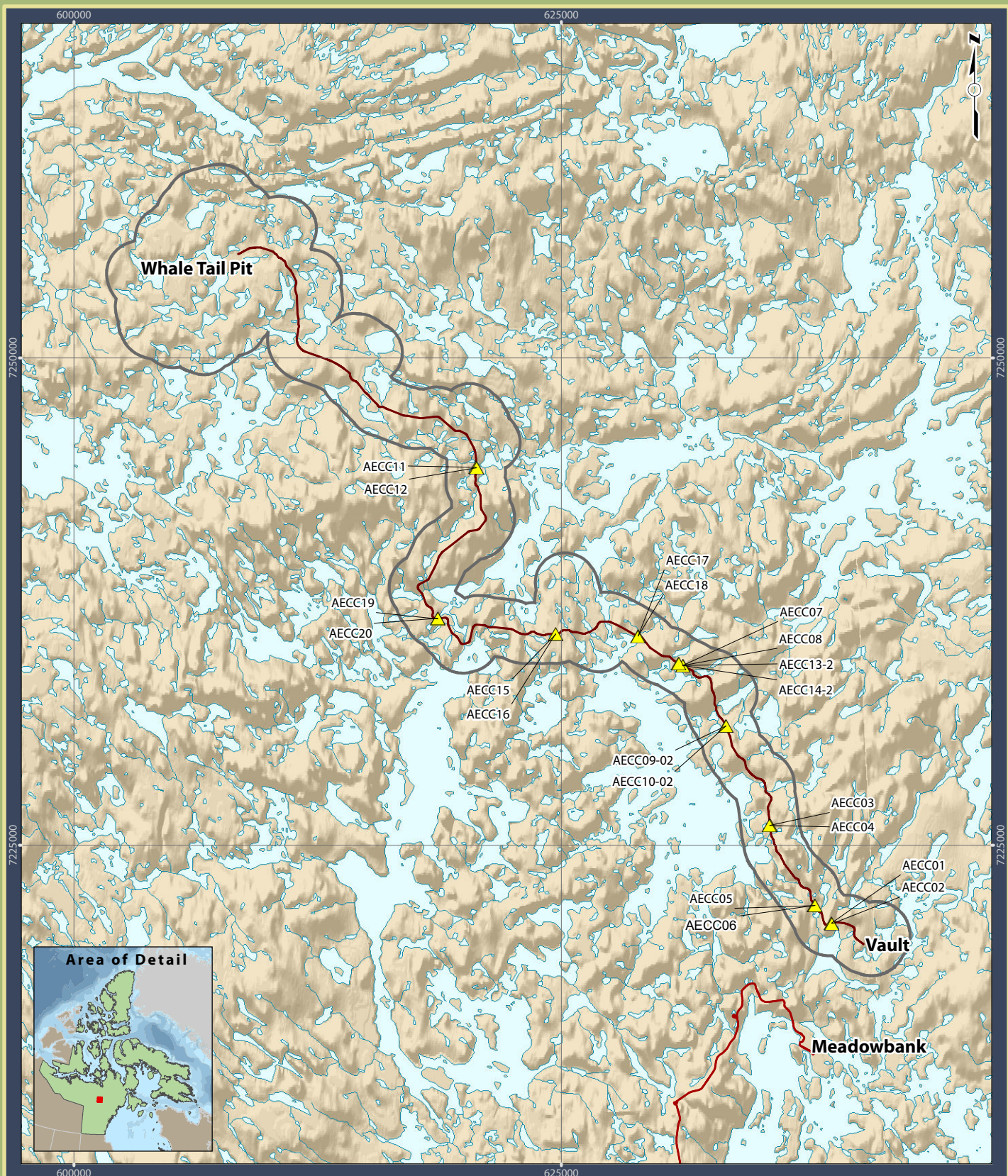
8.5 2018 RESULTS

Photos from remote cameras have not yet been analyzed; however, an example of a photo, taken on 22 October 2018, is provided below.





8.6 MANAGEMENT RECOMMENDATIONS

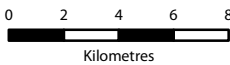
In 2019, remote cameras should be set up in late March so that the spring migration can be captured. Cameras should remain in place until early winter once Caribou movements have eased. Results from the surveys should be analyzed and discussed at TAG meetings to determine whether monitoring objectives have been achieved.





Legend

-  Remote Camera Location
-  Whale Tail Haul Road
-  All-Weather Access Road
-  Whale Tail Pit and Haul Road Local Study Area (LSA)



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 8.1
Location of Remote Cameras along the Whale Tail Haul Road

Meadowbank Gold Project

Prepared for:



By:



SECTION 9 • CARIBOU MANAGEMENT DECISION TREE

9.1 OVERVIEW

New to the 2018 TEMP is the use of decision trees or charts that outline monitoring and mitigation (adaptive monitoring) measures for Ungulates for each of five phases: 1) Caribou and mining operations; 2) Caribou and haul roads; 3) Caribou and the AWAR; 4) Caribou and blasting; and 5) Muskox and Operations (see Agnico Eagle 2018).

9.2 OBJECTIVES

The monitoring objectives are to:

- 1) Detect if effect thresholds have been exceeded;
- 2) Test the efficacy of mitigation; and
- 3) Understand project-related effects to Ungulates. For Ungulates, the decision charts are also an objective to manage sensory disturbance to Caribou approaching the project, leading to monitoring to detect Caribou approaching the project and mitigation to reduce sources of sensory disturbance.

9.3 DURATION

Monitoring activities for Ungulates will be carried out prior to, during, and following construction. The use of decision trees for managing disturbance to Ungulates is an ongoing and continuous monitoring strategy for the life of the project. Monitoring intensity is increased as Ungulates approach the project.

9.4 METHODOLOGY

The approach involves monitoring the number of Ungulates in close proximity to mining operations through various monitoring tools including Caribou collaring data, HOL surveys, AWAR and haul road surveys, and pit and mine site grounds surveys. Depending on the number of Ungulates observed (i.e., Caribou Group Size Threshold – GST), proximity to the road, and time of year, different monitoring levels are triggered (i.e., Level 1, Level 2, Level 3). For example, triggers may result in pit and mine site ground surveys and/or haul road surveys increased up to every two days, and Caribou satellite data reviewed on a daily basis.

For the purposes of monitoring, a “group of Caribou” is defined as: “An aggregation of caribou that are sufficiently close together that they can see and react to another animal’s behaviour, and have the potential of responding should one or more animal in the aggregation become startled.” For further details on the reasoning behind Caribou GSTs and the decision chart approach, refer to the 2018 TEMP (Agnico Eagle 2018). The GST approach and monitoring/management outcomes will be reviewed by the TAG on a regular basis to determine whether an acceptable balance has been achieved between mining operations and conserving Caribou populations. As GSTs are the main trigger for mitigation and management, understanding their efficacy for overall herd protection is of high importance.

9.5 2018 RESULTS

Use of the decision tree and trigger approach was used on multiple occasions in 2018. In many cases where groups of Caribou were observed close to the road, closures or restrictions were implemented (see **Tables 3.4 to 3.6**). A specific log of when and how the decision tree approach was used in 2018 was not kept but Agnico Eagle will begin logging the decisions and outcomes in 2019.

9.6 ACCURACY OF IMPACT PREDICTIONS

An objective of the decision chart approach is to reduce sensory disturbance to Caribou approaching the project. The objective is not linked to an impact prediction as the monitoring is to trigger mitigation rather than to test a threshold.

9.7 MANAGEMENT RECOMMENDATIONS

Decisions and outcomes resulting from the use of the decision tree approach in 2018 should be analyzed to determine whether adjustments to the approach need to be made and discussed in TAG meetings. A dedicated log of decisions and outcomes should be kept in 2019 to facilitate future analyses of the effectiveness of this monitoring approach.

SECTION 10 • HUNTER HARVEST STUDY

10.1 OVERVIEW

As outlined in the TEMP (Cumberland 2006) and as a requirement of NIRB Project Certificate No. 004 Terms and Conditions 51 and 54, the Baker Lake Hunter Harvest Study (HHS) was initiated in March 2007 by Agnico Eagle in association with the Baker Lake HTO to monitor and document the spatial distribution, seasonal patterns, and harvest rates of hunter kills and angler catches within the Meadowbank LSA.

After low participation during the first year of the study, methods were strategically adapted, participation increased steadily, and valuable information on harvest patterns in the Baker Lake area was collected. The HHS, through regular visits, contributed to developing a strong relationship with local harvesters, the HTO, and GN DoE. Data were provided annually in monitoring reports from 2007 to 2015. Lower participant rates and reduced data in 2014 and 2015 made it increasingly difficult to determine hunting patterns in the Baker Lake area and along the AWAR, and to answer fundamental questions on the effect of the mine on regional Caribou populations. The HHS was suspended for three years (2016 and 2018) to develop new approaches and direction.

Following consultation with the HTO, KivIA, GN, and other agencies in November 2016 (Winnipeg) and June 2017 (Ottawa), Agnico Eagle reinitiated the HHS in March 2019. The study approach will be similar to previous years but suggestions and guidance received during the consultation period will be incorporated into the study. Study results for 2019 will be presented in the 2019 annual report.

10.2 OBJECTIVES

The primary objectives of the HHS are to monitor potential project-related effects on harvesting of wildlife by residents of Baker Lake. This objective is achieved by estimating the following key metrics:

1. The distribution of Caribou, Muskox, and Wolverine harvest by residents of Baker Lake; and
2. The total level (or an index of) Caribou, Muskox, and Wolverine harvest by residents of Baker Lake.

Other objectives of the HHS established in consultation with TAG or other participants include:

- 1) Supporting creel surveys by gathering information on Arctic Char (*Salvelinus alpinus*), Lake Trout (*Salvelinus namaycush*), Lake Whitefish (*Coregonus clupeaformis*), and Arctic Grayling (*Thymallus arcticus*) catch rates and Inuit-use patterns in the Baker Lake area;
- 2) Understanding regional distribution of hunting and fishing activity;
- 3) Investigating seasonal timing of hunting and fishing activity; and
- 4) Determining whether increased harvest and catch rates are associated with the AWAR.

As discussed during consultation with stakeholders, HHS will further seek to: a) increase and maintain the hunter participant rate in the future of the program; b) improve resource protection; c) improve hunter awareness and education; d) increase the integration of Inuit Qaujimajatuqangit and Traditional Knowledge; f) increase availability of data to support a collective approach to understanding wildlife harvest; and g) assist Agnico Eagle in mitigative actions and the GN in management decisions.

10.3 METHODOLOGY

The approach and methods used in the 2019 HHS will be outlined in the 2019 annual report. Existing tools that were successful in reaching hunters in previous studies will be combined with new methods and best practices as part of an approved HHS methodology. The use of new technology (e.g., social media) will also be incorporated to facilitate participation and reach hunters of the new generation.

SECTION 11 • PREDATORY MAMMAL DEN MONITORING

11.1 OVERVIEW

Predatory Mammals, representing a valued ecosystem component (VEC), occur and are known to den in the vicinity of the Meadowbank and Whale Tail project facilities. Sensory disturbances near active dens such as blasting, vehicles and, most significantly, ground personnel, may negatively impact denning success by inducing stress responses in the adult mammals, which can result in den abandonment.

Predatory Mammal den monitoring is applicable to four species: Arctic Wolf (natal dens), Grizzly Bear (natal/overwintering dens), Arctic Fox (natal dens), and Wolverine (natal dens).

11.2 OBJECTIVES

The purpose of the Predatory Mammal den monitoring program is to identify and monitor active dens in close proximity to mining operations in order to protect any detected dens from disturbance.

11.3 DURATION

The den monitoring program is ongoing during the lifetime of the mine

11.4 METHODOLOGY

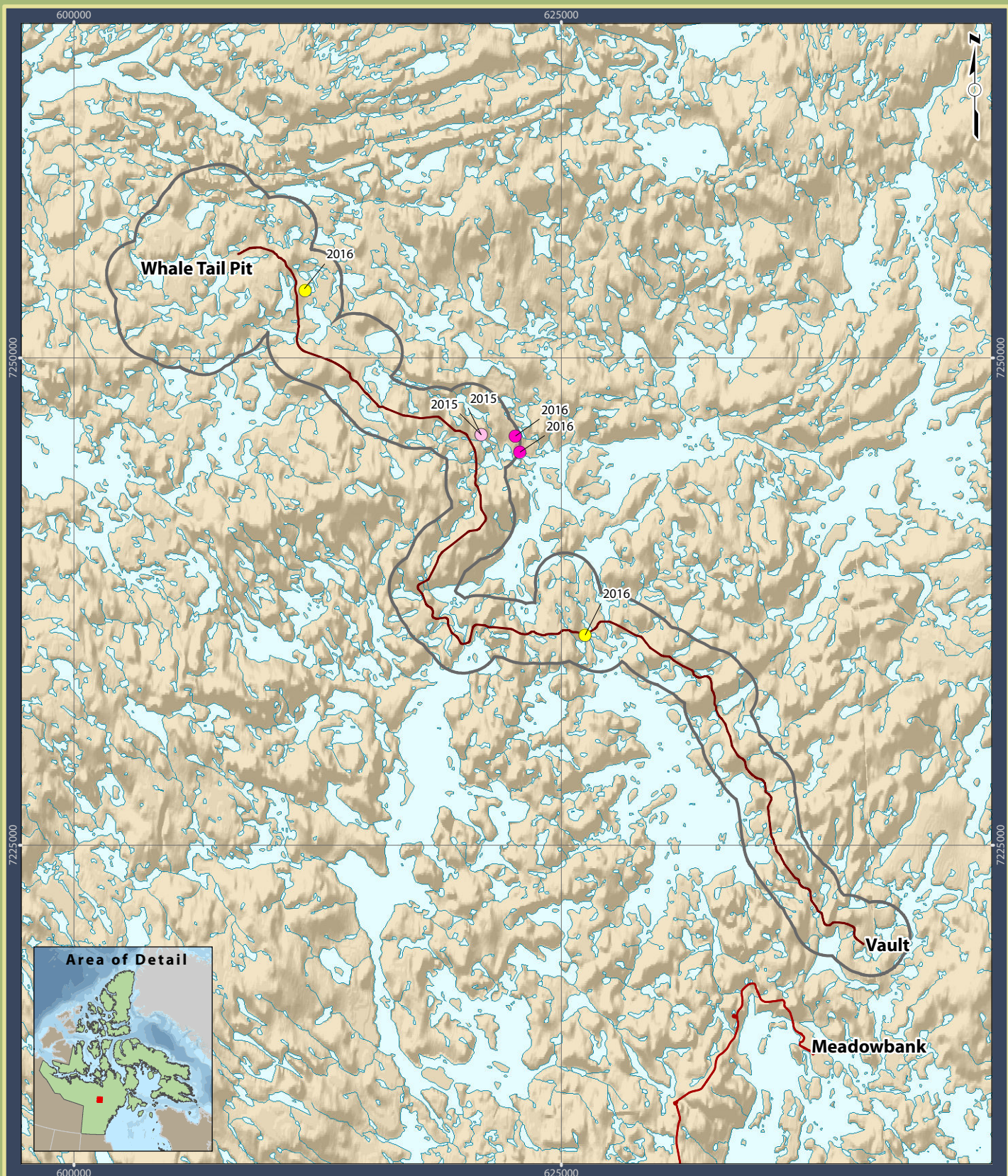
Data will be collected on Predatory Mammal abundance and behaviour during ground surveys, vehicle surveys, and HOL surveys. Active den sites identified during baseline studies will also be monitored. If a wildlife technician suspects or confirms that an active den is present within the active footprint and vicinity of Project facilities or roads, a den management plan will be prepared. The plan will include consultation with the GN with respect to obligations under *The Wildlife Act*, SNU 2003, c. 26. Ground personnel and vehicle access will be restricted in the vicinity of the den as needed to minimize disturbances at the den. The den management plan outlines a monitoring schedule (dependent on seasonal timing) and will inform further mitigation strategies as required. See Figure 12 and Appendix J of the 2018 TEMP (Agnico Eagle 2018) for den management and protection plan components.

11.5 HISTORICAL RESULTS

Active den sites of Wolf and previous dens of Grizzly Bear were identified during baseline surveys at the Whale Tail site and along the Whale Tail Haul Road (Dougan 2019; see **Figure 11.1**).

11.6 2018 RESULTS

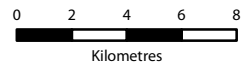
Predatory mammal dens were not monitored in 2018 as potential effects due to mine-related activities were not identified.



Legend

Predator Mammal Den Location

- Arctic Wolf Den
- Arctic Wolf Nursery
- Barren-Ground Grizzly Bear Den
- Whale Tail Haul Road
- All-Weather Access Road
- Whale Tail Pit and Haul Road Local Study Area (LSA)



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 11.1 Predator Mammal Den Sites Identified within the Whale Tail Local Study Area in 2017

Meadowbank Gold Project

Prepared for:



By:



11.7 ACCURACY OF IMPACT PREDICTIONS

A summary of the impact predictions identified in the TEMP (Agnico Eagle 2018) is provided in **Table 11.1**; however, no impacts to denning predators were observed in 2018.

Table 11.1: Accuracy of Impact Predictions – Disturbance to Denning Predatory Mammals for the Meadowbank and Whale Tail Projects.

Potential Effect	Threshold	Threshold Exceeded (2018)	Adaptive Management Implemented	Status
Disturbance to Denning Predators	Predatory mammal den failures will not be caused by mine-related activities. Threshold is one den failure per year.	NO	NO	AWAR and haul road Surveys Daily and weekly systematic pit and mine site ground surveys Incident and vehicle encounter HOL surveys

11.8 MANAGEMENT RECOMMENDATIONS

When an active den site is identified in close proximity to project facilities, a den management plan should be developed that outlines a monitoring schedule and appropriate mitigation strategies. See Figure 12 and Appendix J of the 2018 TEMP (Agnico Eagle 2018) for den management and protection plan components.

SECTION 12 • RAPTOR NEST MONITORING

12.1 OVERVIEW

The raptor nest survey monitoring program has been designed to confirm that mine-related activities do not result in inadvertent negative effects on nesting raptors. Raptor surveys along the proposed AWAR alignment in 2005 (i.e., prior to construction) indicated that only low suitability habitat for nesting raptors was available. During AWAR construction in 2007/2008, excavated and blasted rock materials were extracted from numerous quarries along the alignment, resulting in some moderate and high suitability raptor nesting habitat areas characterized by steep rock walls. Established Peregrine Falcon nests within some of these quarries are monitored on an annual basis to evaluate occupancy.

In the Whale Tail Pit and Haul Road study area, researchers from the University of Alberta identified 56 occupied raptor nests during surveys in 2015, 2016, and 2017. The most common nesting species was Peregrine Falcon, followed by Gyrfalcon (*Falco rusticolus*) and Rough-legged Hawk. Nests of Common Raven (*Corvus corax*) were also identified during the raptor nest surveys. Most occupied nests (43) were located north of the Whale Tail Pit study area, while the remainder (13) were along the Whale Tail Haul Road. None of the occupied nests will be disturbed by proposed development activities, but four nests (i.e., 1 Peregrine Falcon; 3 Rough-legged Hawk), are located in the Whale Tail LSA.

12.2 OBJECTIVES

The primary objectives of the raptor nest survey monitoring program are to:

1. Confirm that raptor nest failures are not caused by mine-related activities. The threshold level is one (1) nest failure per year; and
2. Confirm that no project-related mortality of raptors occurs. The threshold level of mortality is one (1) individual per year.

12.3 DURATION

Raptor nest monitoring is to continue annually during the operation and decommissioning phases of the mine in accordance with the TEMP (Agnico Eagle 2018).

12.4 METHODOLOGY

Between 2000 and 2009, raptors were periodically recorded during AWAR road surveys, waterbird nest surveys, and aerial surveys and investigated further, as required; however, given the overall low probability of raptor occurrence within the LSA and RSA, a specific raptor survey was not scheduled. In 2009, an active Peregrine Falcon nest at Quarry 19 prompted the initiation of a dedicated raptor nest survey in 2010. Surveys from 2011 through 2018 continued this work, focusing particularly on quarries along the AWAR. Sporadic surveys in specific areas (i.e., Portage, Goose, and Vault pits, fuel tank storage) were also conducted when raptors were observed during mine site environmental inspections or employees reported any sightings. Visual checks of active falcon nest sites were conducted during regular ground reconnaissance surveys along the AWAR. Non-disruptive monitoring techniques, which

2018 WILDLIFE MONITORING SUMMARY

included monitoring nests from a vehicle within the quarry or from the AWAR, ensured that active nests were not approached by Agnico Eagle personnel. Using these techniques, environmental personnel were able to monitor nest success throughout the summer season. Nest monitoring was not completed along the Vault Road since neither quarries nor potential raptor habitat are present. Any observed raptor activity in this area is documented through regular mine site inspection and road surveys.

Raptor nests in the Whale Tail Pit and Haul Road study area were previously identified by researchers from the University of Alberta during the environmental assessment process (i.e., 2015 to 2017). Surveys were conducted from a helicopter by trained observers. Nest monitoring was not conducted in the Whale Tail area in 2018 because none of the identified active nests are in close proximity to project activities and facilities.

Raptor nest monitoring is conducted according to Figure 13 in the 2018 TEMP while management and mitigation approaches are according to the 'Peregrine Falcon Management and Protection Plan on the Meadowbank Gold Project Site' (see Appendix E of the 2018 TEMP).

12.5 HISTORICAL RESULTS

12.5.1 Meadowbank Mine and AWAR

Single nesting pairs of Peregrine Falcon were recorded in 1996 and 2005 in the Mine RSA, but nests near mine facilities have only been routinely recorded since 2009, at which time dedicated nesting surveys were included in the monitoring program. Twelve unique Peregrine Falcon nesting sites have been recorded between 2009 and 2017; ten of these were in quarries along the AWAR, one nest was located on the Portage Pit wall (observed in 2012 and 2013), and one nest was in Goose Pit (observed in 2016) (**Figure 12.1**). Not all nesting sites are active every year.

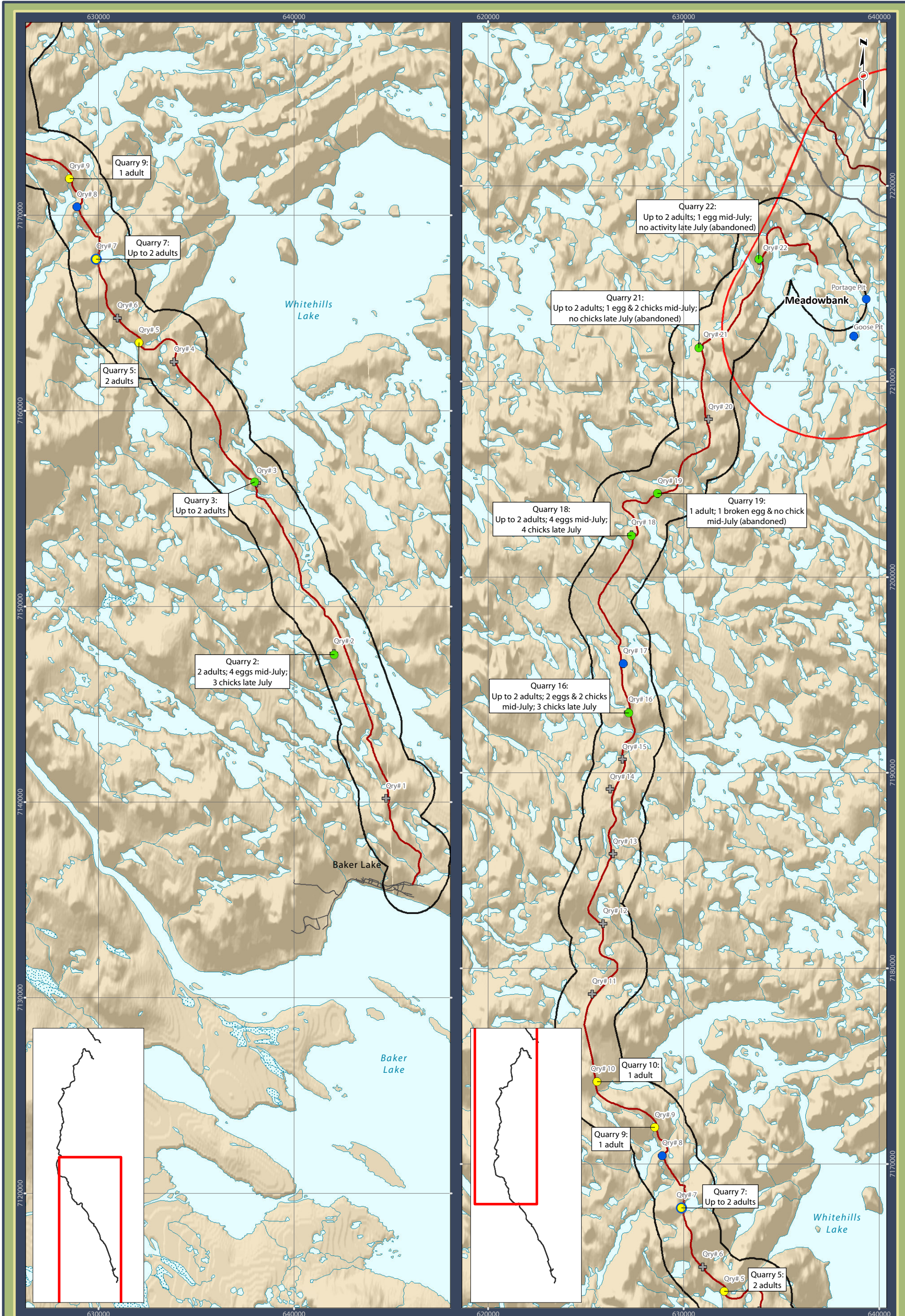
12.5.2 Whale Tail Pit and Haul Road

Of 56 nests recorded between 2015 and 2017 within the Whale Tail Pit and Haul Road RSA, four were located within the Whale Tail Pit LSA but none are particularly close to project facilities (see **Figure 12.2**).

12.6 2018 RESULTS

12.6.1 Meadowbank Mine and AWAR

In 2018, seven active Peregrine Falcon nests were documented in Quarries 2, 3, 16, 18, 19, 21 and 22, all previous nesting locations. No falcon activity was observed at previous nest sites at Quarry 8 (2017), Quarry 17 (2017), Portage Pit (2013), and Goose Pit (2016) (see **Table 12.1**). In addition to the seven active nest sites in 2018, falcon activity was observed at four additional quarry sites (i.e., Quarries 5, 7, 9, and 10) and one pit (Vault) during the monitoring program. Cumulative information on Peregrine Falcon nests from 2009 to 2018 is summarized in **Table 12.1** and **Figure 12.1**.



Legend

- Raptor Nest - Active (2018)
- Raptor Nest - Historical
- Raptor Sighting - No Nest
- Raptor Sighting - Near Historical Nest
- ⊕ Quarry location
- All-Weather Access Road
- Whale Tail Haul Road
- ▭ Meadowbank All-Weather Access Road Local Study Area (LSA)
- ▭ Meadowbank Local Study Area (LSA)

0 2 4 6
Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database
Agnico-Eagle Mines Limited
Gebauer & Associates Ltd.

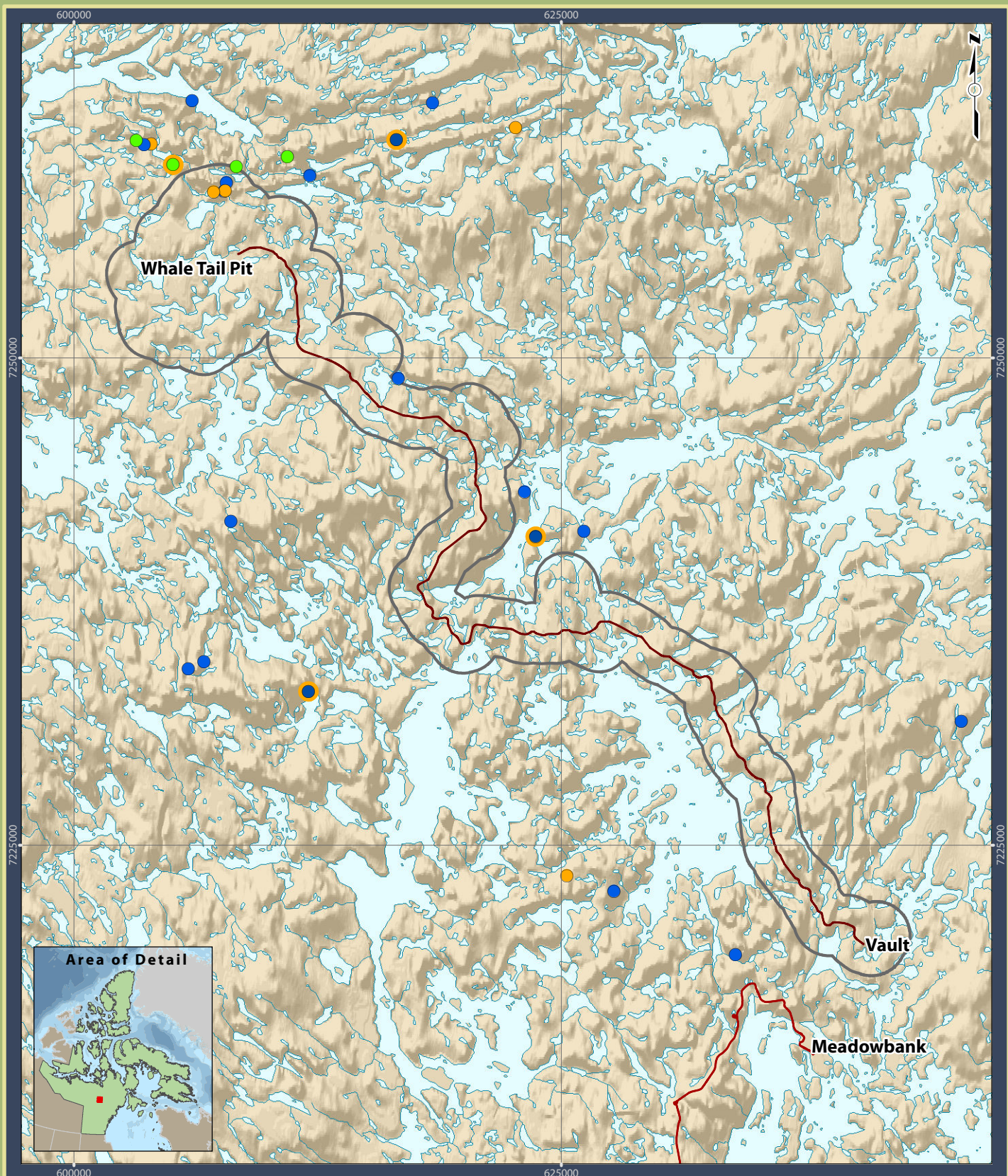


Figure 12.1: Raptor Nest Locations for the AWAR and Meadowbank Mine Site (2009 to 2018)

Meadowbank Gold Project

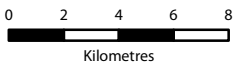
Prepared for: **AGNICO EAGLE**

By: **Nunavut ENVIRONMENTAL CONSULTING LTD** **CASLYS CONSULTING**



Legend

- Whale Tail Haul Road
 - All-Weather Access Road
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
- Raptor Nest Locations**
- Gyrfalcon Nest
 - Rough-legged Hawk Nest
 - Peregrine Falcon Nest
 - Gyrfalcon & Rough-legged Hawk Nest
 - Peregrine Falcon & Rough-legged Hawk Nest



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited.

Figure 12.2: Raptor Nest Locations for the Whale Tail Pit and Haul Road (2015-2018)

Meadowbank Gold Project

Prepared for:
AGNICO EAGLE

By:
Nunavut ENVIRONMENTAL CONSULTING LTD

By:
CASLYS CONSULTING

2018 WILDLIFE MONITORING SUMMARY

Table 12.1: Record of Peregrine Falcon and Nesting along the AWAR and in the Meadowbank LSA between 2009 and 2018.

Quarry	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Comments
1	No	No	No	No	No	No	No	No	No	No	No falcons observed.
2	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	2 adult falcons observed throughout season. 4 eggs in mid-July and 3 chicks in late July.
3	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Up to 2 adult falcons observed; nest observed but no eggs.
4	No	No	No	No	No	No	No	No	No	No	No falcons observed.
5	No	No	No	No	No	No	No	No	No	No	2 adult falcons observed in late July.
6	No	No	No	No	No	No	No	No	No	No	No falcons observed.
7	No	No	No	No	No	No	No	Yes	Yes	No	Up to 2 adult falcons observed but no nest.
8	No	No	No	No	No	No	No	No	Yes	No	No falcons observed.
9	No	No	No	No	No	No	No	No	No	No	1 falcon observed in early June.
10	No	No	No	No	No	No	No	No	No	No	1 falcon observed in early July.
11 to 15	No	No	No	No	No	No	No	No	No	No	No falcons observed.
16	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Up to 2 adult falcons observed throughout season. 2 eggs and 2 chicks in mid-July, and 3 chicks in late July.
17	No	No	No	No	No	No	No	No	Yes	No	No falcons observed.
18	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Up to 2 adult falcons observed throughout season. 4 eggs in mid-July and 4 chicks in late July.
19	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	1 adult falcon observed and 1 broken egg with no chick in mid-July. Apparently abandoned.
20	No	No	No	No	No	No	No	No	No	No	No falcons observed.
21	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Up to 2 adult falcons observed throughout season. 1 egg and 2 chicks in mid-July and no chicks in late July. May have been abandoned.
22	No	No	No	No	No	No	No	No	Yes	Yes	Up to 2 adult falcons observed throughout season. 1 egg, apparently abandoned, observed in mid-July. No activity in late July suggesting abandonment.
Portage	No	No	No	Yes	Yes	No	No	No	No	No	No falcons observed.
Vault	NA	NA	NA	NA	No	No	No	No	No	No	1 falcon observed in late May.
Goose	NA	NA	No	No	No	No	No	Yes	No	No	No falcons observed.

Observations made throughout the nesting season on raptor activity and nesting success are detailed in **Table 12.2**. Nesting success was confirmed through identification of maturing chicks at four out of seven active nesting sites along the AWAR in 2018. The other three nests appeared to be abandoned at some point during the breeding season. At the Quarry 3 nest, one sick or wounded chick was observed on 18 July with no subsequent observations of adults or young. At Quarry 19, only a broken egg was observed on 18 July with no sign of any falcons after this date. At Quarry 22, one adult and one apparently abandoned egg (i.e., no defensive behavior by adult) was observed on 18 July. Specific raptor nest management plans were not warranted at any of the active nest sites, as mine-related activity was minimal in the quarries.

Additional observations of raptor activity around the mine site are included in **Appendix E**. The first Peregrine Falcon of the season was observed flying over the Vault Pit on 23 May. Falcons were also documented the last week of May and through June and July. The first Rough-legged Hawk of the year was observed along the AWAR on 24 May. Other individuals were sighted the last week of May and in July. Individual Bald Eagles were recorded along the AWAR on 11 and 23 August. Bald Eagle, Peregrine Falcon, and Rough-legged Hawk were observed during AWAR surveys (**Section 3.6**).

12.6.2 Whale Tail Pit and Haul Road

No active raptor nests were monitored within the Whale Tail Pit and Haul Road LSA in 2018. Raptors recorded along the Whale Tail Haul Road included Rough-legged Hawks on 02 and 27 July, a Bald Eagle on 21 June, and a Snowy Owl on 18 October. A Snowy Owl was also observed at the Amaruq Camp on 05 April.

2018 WILDLIFE MONITORING SUMMARY

Table 12.2: Raptor Nests Identified and Monitored at the Mine Site and along the AWAR between Baker Lake and the Meadowbank Mine Site in 2018.

Quarry or Pit Location	GN Site # ¹	Species	Location (UTM)	2018 Observation Date	Observations
2	4003	Peregrine Falcon	14W 0642068 7147616	06 July	2 adults
				18 July	2 adults; 4 eggs of which 2 are hatching
				31 July	2 adults; 3 chicks
3	4004	Peregrine Falcon	14W 0638009 7156419	18 July	2 adults; 1 chick that seems sick or wounded
16	4007	Peregrine Falcon	14W 0627212 7193129	26 May	1 adult
				01 June	1 adult
				08 June	1 adult
				07 July	2 adults
				13 July	2 adults
				18 July	2 adults; 2 chicks and 2 eggs
				27 July	1 adult
31 July	2 adults; 3 chicks				
18	4008	Peregrine Falcon	14W 0627351 7202109	08 July	2 adults; nest seen
				13 July	1 adult
				18 July	1 adult; 4 eggs
				31 July	2 adults; 4 chicks
19	3901	Peregrine Falcon	14W 0628686 7204285	01 June	1 adult
				06 June	1 adult
				18 July	1 broken egg with no chick
21	4009	Peregrine Falcon	14W 0630781 7211705	08 July	2 adults; nest seen
				13 July	2 adults; 1 adult on nest
				18 July	2 adults; 2 chicks and 1 egg
				02 August	1 adult
22	2017C ²	Peregrine Falcon	14W 0633625 7216088	08 June	1 adult
				08 July	2 adults
				18 July	1 adult; 1 egg that seems to have been abandoned

¹ Government of Nunavut (GN) Raptor Database site number

² Unique nest identifier (awaiting GN Raptor Database site number)

12.7 ACCURACY OF IMPACT PREDICTIONS

A summary of the impact predictions identified in the TEMP (Agnico Eagle 2018) is provided in **Table 12.3**. The 2018 raptor monitoring data were compared to the impact prediction thresholds to evaluate adherence to impact predictions and provision of adaptive management, as either a necessary or proactive measure.

Table 12.3: Accuracy of Impact Predictions – Disturbance to Nesting Raptors for the AWAR and Mine Site, and Raptor Mortality.

Potential Effect	Threshold	Threshold Exceeded (2018)	Adaptive Management Implemented	Status
Disturbance to Nesting Raptors	Raptor nest failures will not be caused by mine-related activities. Threshold is one nest failure per year.	NO	NO	AWAR and haul road surveys Dedicated raptor nest surveys Daily and weekly systematic pit and mine site ground surveys
Raptor Mortality	One (1) individual	NO	NO	AWAR and haul road surveys Daily and weekly systematic pit and mine site ground surveys Incident and vehicle encounter reports

12.8 MANAGEMENT RECOMMENDATIONS

Quarrying activities along the AWAR corridor have created moderate to high suitability Peregrine Falcon nesting habitat. Falcons are expected to continue to use select quarries for the foreseeable future, which may necessitate the implementation of a raptor nest management plan for nests if deemed necessary. Agnico Eagle will continue to:

- Conduct raptor nest surveys annually at each of the quarries along the AWAR early in the nesting season (mid- to late June) to confirm the status of previously confirmed raptor nests, assess the presence of new raptor nests, and determine the need, if any, for a raptor nest management plan;
- Monitor active raptor nests weekly in the breeding season to confirm nest success or failure;
- Ensure that environmental personnel maintain accurate records of nesting activity and success for all active nests for the duration of these surveys to determine if thresholds are exceeded;
- Monitor pits and waste rock piles at the mine site to avert nesting attempts by raptors. If a nest is established, the Peregrine Falcon Management and Protection Plan will be followed; and
- Monitor the Whale Tail Pit and Haul Road area to determine whether active nests are present. If a nest is in close proximity to project facilities and is at risk of disturbance, the Peregrine Falcon Management and Protection Plan will be followed.

SECTION 13 • WATERBIRD NEST MONITORING

13.1 OVERVIEW

The Whale Tail expansion requires the construction of two dykes within Whale Tail Lake to divert water from the proposed pit to surrounding lakes and tributaries, resulting in flooding that will elevate water levels by 4 m and inundate approximately 157 ha of tundra during the active bird nesting window. To investigate mitigation options to minimize flooding-related impacts to birds, Trent University, in collaboration with Environment and Climate Change Canada and Agnico Eagle, conducted active bird nest surveys and experimented with deterrent options in summer 2018 at the Whale Tail site.

13.2 OBJECTIVES

The purpose of the research is to assess the degree of risk posed to migratory birds by mining-induced flooding during the nesting period, and to determine the most effective bird deterrents and how they should be applied. The specific study objectives are:

- 1) Determine breeding densities and timing of bird nest initiation at the study site;
- 2) Investigate the relationship between nesting phenology and timing of snowmelt;
- 3) Understand the degree to which deterrents can reduce nesting densities in specific areas;
- 4) Document individual behavioural responses to deterrent applications and changes in response over time; and
- 5) Assess the dispersal distance of deterred/impacted birds, to understand whether birds displaced from flooded areas nest nearby.

13.3 DURATION

The study was initiated in 2018 and will continue for two more years.

13.4 METHODOLOGY

In early June 2018, 21 plots were established along Whale Tail Haul Road between Amaruq Camp and Km 163. As the landscape was still covered in snow, plots were chosen by reviewing ELC maps and ground-truthing during freshet. Plots were 200 x 300 m (6 ha) and characterized by a mix of low-lying wet sedge habitat types representative of habitats proposed to be flooded around Whale Tail Lake. The purpose of the plots was to allow spatially-independent samples in which to test deterrents.

Eighteen of the 21 plots were surveyed repeatedly during the six-week field season to locate and monitor nests. Three of the most distant plots could not be monitored consistently because of time constraints. At the end of the field season, all 21 plots were surveyed for habitat types and unique land formations, and photos were taken at all four corners of the plot for future reference.

Once visual deterrents arrived in late June, the effectiveness of Mylar ribbon and Jackite© (a hawk kite effigy) deterrents could be tested on individual nesting birds. In this preliminary trial, observations were recorded before and after the use of visual deterrents to assess whether the behaviour of nesting birds changed when deterrents were placed within their territory.

13.5 2018 RESULTS

13.5.1 Survey Results

A total of 59 nests were found within the 18 regularly-monitored plots while an additional 51 nests were found outside the plots (see **Table 3.1** for nest details and **Figure 13.1, Mapsheet A** for locations). Nests of 12 species were documented. Lapland Longspur was the most commonly encountered species (i.e., 48 nests) while Semipalmated Sandpiper was the most abundant shorebird species (i.e., 14 nests). Of 50 active nests of eight species found within the proposed Whale Tail flooded area (i.e., 15 nests in the North East Diversion; 35 nests within the Whale Tail Diversion) between 24 June and 02 July (see **Table 3.2** for nest details and **Figure 13.1, Mapsheet B** for locations), 30 individual birds of four species were banded with individual markers. The markers will help identify returning birds in the 2019 field season and determine whether they breed nearby if 2018 breeding territories are inaccessible due to flooding.

Nests fledgling at least one young were considered successful. Overall estimated nest success was 52% while Lapland Longspur and Semipalmated Sandpiper nesting success was 46% and 71%, respectively. The earliest dates of nest initiation were 11 June (Rock Ptarmigan) and 12 June (Horned Lark).

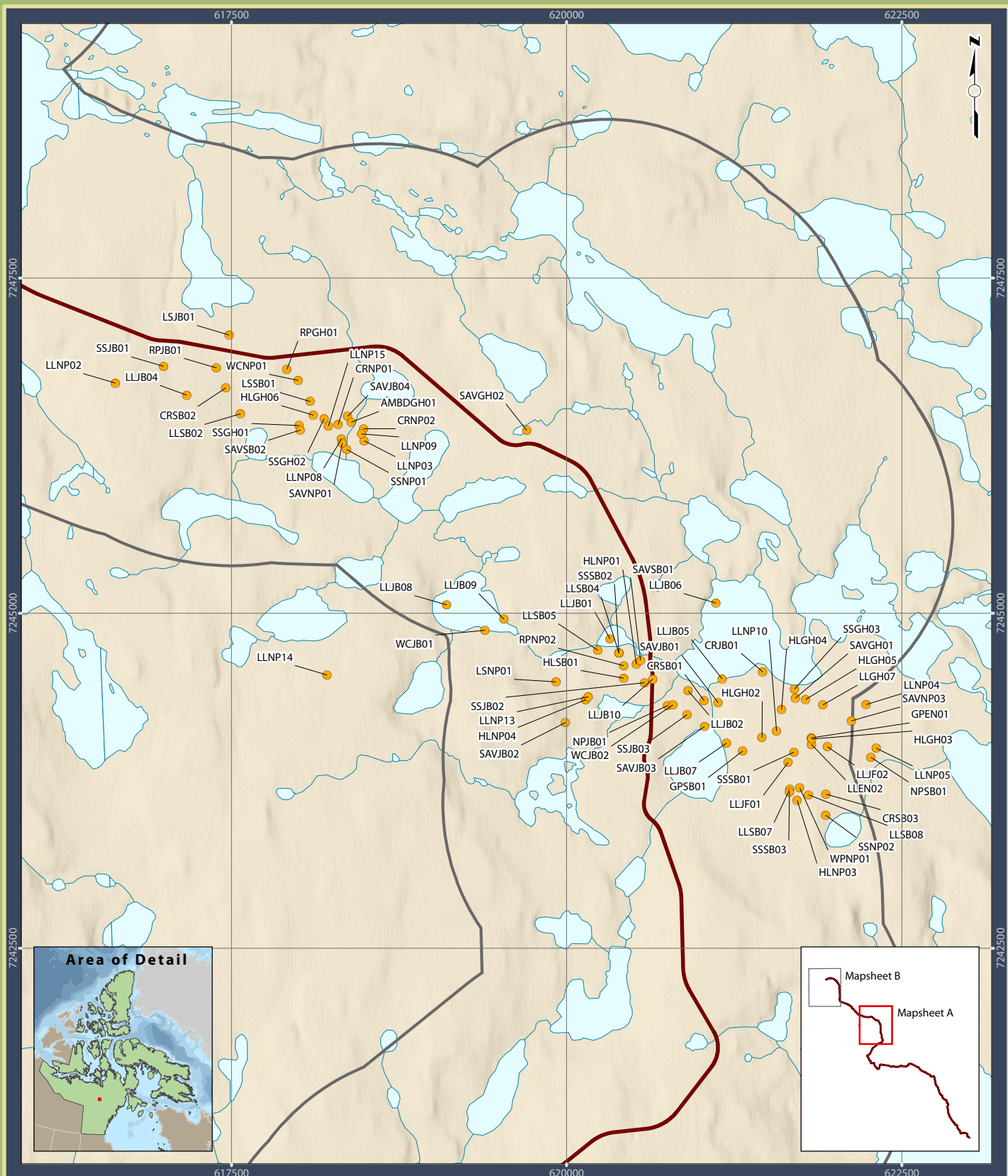
13.5.2 Effectiveness of Deterrents

No significant change in the behaviour of incubating birds before or after the use of deterrents was noted.

13.6 NEXT STEPS

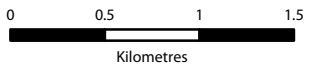
At the beginning of the 2019 study season, deterrents will be erected the last week of May or early June, preferably before snow melt, so that birds can be deterred from nesting within the treatment plots as they arrive to initiate nesting territories. Each of the 18 plots will be assigned randomly, to one of two deterrent treatments or a control. Treatment one is considered the most labor-intensive, consisting of audio deterrents playing a mix of predatory and distress calls paired with a 10 x 10 m grid of Mylar® flash tape. Treatment two is the least labor-intensive, consisting of audio deterrents with the use of Jackite©. Control plots will have no deterrents. Comparisons of densities between year one and two of the study, and between treatment and control plots will determine if deterrents were successful in deterring birds from nesting.

In 2019, a search for the 30 birds marked in 2018 will be conducted to determine whether they breed nearby if their 2018 breeding territories are inaccessible due to flooding.



Legend

- Waterbird Nest Location (2018)
- Waterbird Nest Location (2018) - Whale Tail Diversion
- Whale Tail Haul Road
- Whale Tail Pit and Haul Road Local Study Area (LSA)



Projection: UTM Zone 14 NAD83
Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited
 Service Layer Credits: Airbus, USGS, NGA, NASA,
 CGIAR, NCEAS, NLS, OS, NMA, Geodatastyrelsen,
 GSA, GSI and the GIS User Community.

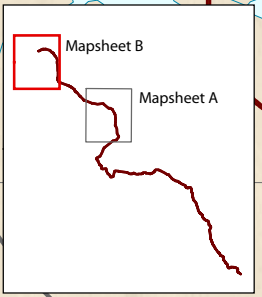
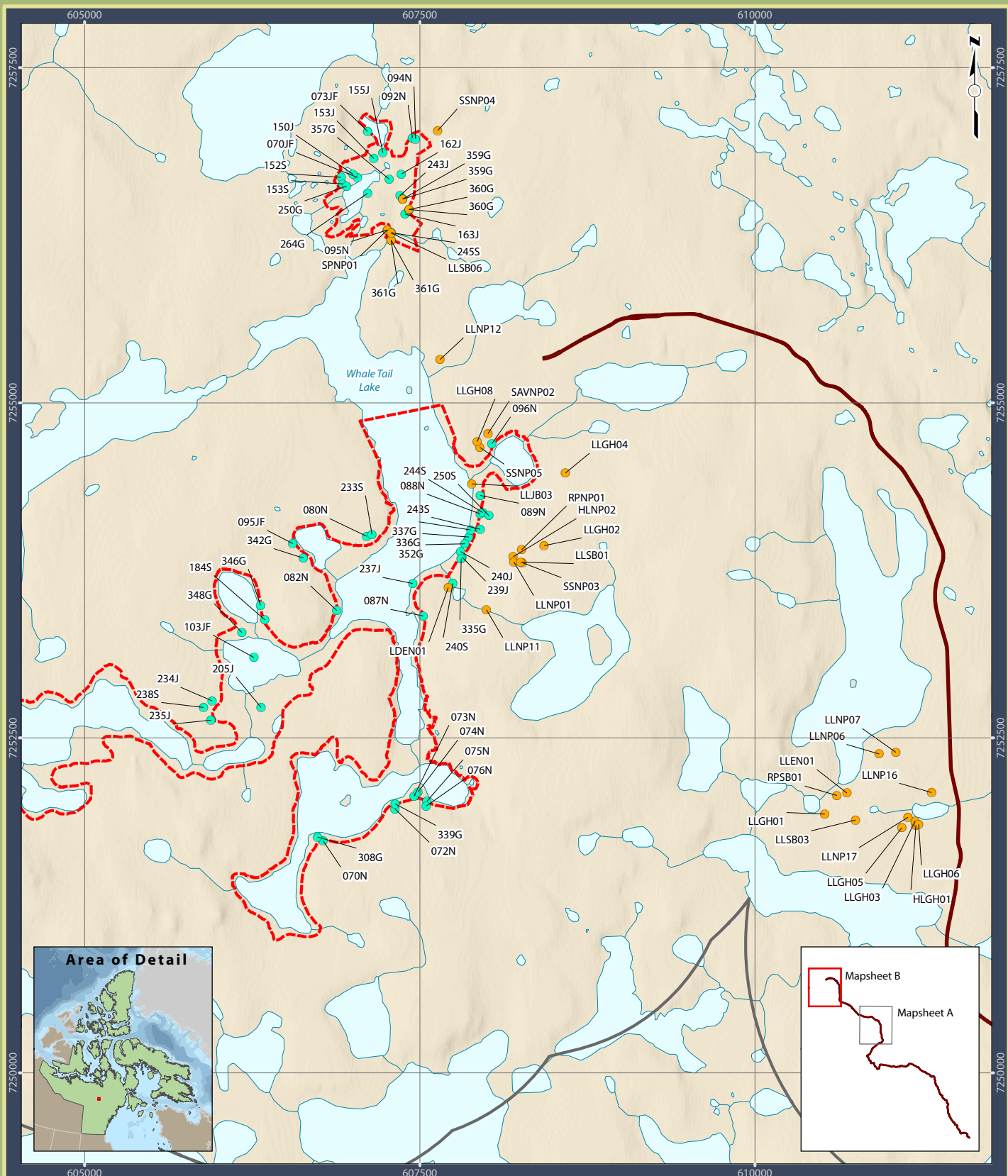
Figure 13.1 Location of Waterbird Nest Surveys and Nest Locations in the Whale Tail Pit Area (Mapsheet A)

Meadowbank Gold Project

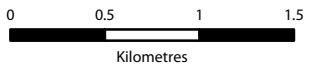
Prepared for: **AGNICO EAGLE**

By: **Nunavut ENVIRONMENTAL CONSULTING LTD**

CASLYS CONSULTING



- Legend**
- Waterbird Nest Location (2018)
 - Waterbird Nest Location (2018) - Whale Tail Diversion
 - Whale Tail Haul Road
 - Whale Tail Pit and Haul Road Local Study Area (LSA)
 - Proposed Flood Zone - Whale Tail Diversion



Projection: UTM Zone 14 NAD83

Data Sources:
 Natural Resources Canada, GeoBase®
 National Topographic Database
 Agnico-Eagle Mines Limited
 Service Layer Credits: Airbus, USGS, NGA, NASA,
 CGIAR, NCEAS, NLS, OS, NMA, Geodatastyrelsen,
 GSA, GSI and the GIS User Community.

Figure 13.1 Location of Waterbird Nest Surveys and Nest Locations in the Whale Tail Pit Area (Mapsheets B)

Meadowbank Gold Project

Prepared for: **AGNICO EAGLE**

By: **Nunavut ENVIRONMENTAL CONSULTING LTD**

CASLYS CONSULTING

2018 WILDLIFE MONITORING SUMMARY

Table 13.1: Waterbird Nest Survey Results Within and Outside 18 Plots along the Whale Tail Haul Road and within the Whale Tail Pit Area.

Species	Plot	Nest Name	Nest Lat	Nest Long	Fate
Horned Lark	P14	HLGH02	65 17 49.5	96 23 41.4	success
Horned Lark	P18	HLNP03	65 17 34.0	96 23 22.7	failed
Rock Ptarmigan	P05	RPSB01	65 22 21.4	96 37 14.7	success
White-crowned Sparrow	P08 (OUT)	WCNP01	65 19 20.0	96 28 00.0	success
Rock Ptarmigan	P02	RPNP01	65 23 23.4	96 40 11.4	success
Rock Ptarmigan	P07	RPJB01	65 19 23.8	96 28 46.8	success
Horned Lark	P10	HLNP01	65 18 08.4	96 24 52.0	failed
Lapland Longspur	P14 (OUT)	LLJB06	65 17 82.3	96 24 04.7	success
American Golden-Plover	P17	GPEN01	65 17 48.9	96 23 13.1	failed
Lapland Longspur	P03	LLGH04	65 23 41.5	96 39 44.5	success
Lapland Longspur	P05	LLGH01	65 22 17.0	096 37 22.1	success
White-crowned Sparrow	P11	WCJB01	65 18 18.0	96 25 78.3	success
Horned Lark	P12	HLNP04	65 18 00.3	96 25 21.9	success
Lapland Longspur	P04	LLNP06	65 22 31.0	96 36 49.5	unknown
Lapland Longspur	P07	LLSB02	65 19 12.5	96 28 33.9	failed
Lapland Longspur	P10	LLSB04	65 18 11.2	96 25 01.7	success
Lapland Longspur	P12	LLNP13	65 18 01.0	96 25 20.3	success
American Golden-Plover	P14	GPSB01	65 17 46.4	96 23 52.8	success
Semipalmated Plover	CAMP	SPNP01	65 24 41.6	96 41 22.1	success
Long-tailed Duck	P01 (OUT)	LDEN01	65 23 15.0	96 40 54.6	failed
Lapland Longspur	P01 (OUT)	LLNP11	65 23 09.3	96 40 33.0	success
Lapland Longspur	P06	LLGH05	65 22 13.0	96 36 38.0	abandoned
Lapland Longspur	P07 (OUT)	LLNP02	65 19 21.1	096 29 45.2	success
Semipalmated Sandpiper	P08	SSGH02	65 19 10.5	96 27 45.9	success
Lapland Longspur	P10	LLJB01	65 18 14.7	96 25 06.5	failed
Horned Lark	P10 (OUT)	HLNB01	65 18 05.1	96 24 59.6	success
Lapland Longspur	P11	LLJB09	65 18 20.5	96 26 07.2	failed
Lapland Longspur	P13 (OUT)	LLJB10	65 18 04.6	96 24 42.8	success
Semipalmated Sandpiper	P17	SSSB01	65 17 45.6	96 23 23.4	success
Common Redpoll	P17 (OUT)	CRJB01	65 17 65.3	96 23 39.4	success
Willow Ptarmigan	P18 (OUT)	WPNP01	65 17 37.0	96 23 21.0	failed
Semipalmated Sandpiper	P08	SSGH01	65 19 09.1	96 28 00.5	failed
Semipalmated Sandpiper	CAMP	SSNP05	65 23 48.4	96 40 33.4	success

2018 WILDLIFE MONITORING SUMMARY

Table 13.1: Continued

Species	Plot	Nest Name	Nest Lat	Nest Long	Fate
Lapland Longspur	P02	LLSB01	63 23 20.2	96 40 12.2	success
Lapland Longspur	P05	LLEN01	65 22 21.9	96 37 08.9	success
Horned Lark	P06	HLGH01	65 22 13.5	96 36 29.8	abandoned
Lapland Longspur	P06	LLGH03	65 22 14.5	96 36 30.3	success
Lapland Longspur	P06	LLNP17	65 22 15.5	96 36 34.2	success
Savannah Sparrow	P08	SAVGH02	65 19 05.7	96 25 49.5	failed
Semipalmated Sandpiper	P13 (OUT)	SSJB02	65 18 03.8	96 24 47.6	success
Northern Pintail	P15	NPJB01	65 17 58.1	96 23 95.0	unknown
Least Sandpiper	CAMP	361G	65 24 39.1	96 41 20.2	success
Horned Lark	P02	HLNP02	65 23 21.8	96 40 16.5	success
Least Sandpiper	P07 (OUT)	LSJB01	65 19 31.6	96 28 38.6	success
Lapland Longspur	P08	LLNP14	65 18 08.8	96 27 50.2	success
Lapland Longspur	P09	LLNP08	65 19 05.5	96 27 36.4	unknown
Lapland Longspur	P10	LLSB05	65 18 12.1	96 25 13.8	success
Common Redpoll	P13 (OUT)	CRSB01	65 17 58.9	96 24 13.9	success
Savannah Sparrow	P15(OUT)	SAVJB01	65 17 58.3	96 24 05.8	success
Savannah Sparrow	P15	SAVJB02	65 17 55.0	96 24 94.2	success
Lapland Longspur	P17	LLJF02	65 17 46.6	96 23 04.0	failed
Lapland Longspur	P18	LLSB07	65 17 36.7	96 23 26.7	success
Lapland Longspur	P19	LLNP04	65 17 56.4	96 22 40.7	unknown
Lapland Longspur	P20	LLNP05	65 17 45.7	96 22 35.9	success
Semipalmated Sandpiper	P10	SSSB02	65 18 11.2	96 25 01.7	failed
Semipalmated Sandpiper	P02	SSNP03	65 23 20.3	96 40 11.3	success
Lapland Longspur	P04	LLNP07	65 22 31.2	96 36 39.7	success
Lapland Longspur	P04 (OUT)	LLNP16	65 22 21.2	96 36 20.0	success
Semipalmated Sandpiper	P07	SSJB01	65 19 24.7	96 28 77.2	success
Lapland Longspur	P09	LLNP03	65 19 04.8	96 27 23.4	success
Semipalmated Sandpiper	P09	SSNP01	65 19 02.9	96 27 33.7	success
White-crowned Sparrow	P15	WCJB02	65 17 58.2	96 23 91.9	success
Lapland Longspur	P17	LLEN02	65 17 47.3	96 23 13.1	unknown
Lapland Longspur	P17	LLJF01	65 17 43.2	96 23 27.0	failed
Semipalmated Sandpiper	P16	SSGH03	65 18 00.8	96 23 21.6	success
Semipalmated Sandpiper	P18	SSSB03	65 17 36.1	96 23 26.9	success
Lapland Longspur	CAMP	LLGH08	65 23 49.8	96 40 34.8	success

2018 WILDLIFE MONITORING SUMMARY

Table 13.1: Continued

Species	Plot	Nest Name	Nest Lat	Nest Long	Fate
Lapland Longspur	CAMP	LLSB06	65 24 40.8	96 41 20.0	failed
Savannah Sparrow	CAMP	SAVNP02	65 23 51.7	96 40 28.3	unknown
Common Redpoll	P09 (OUT)	CRNP01	65 19 09.0	96 27 38.0	unknown
Savannah Sparrow	P10 (OUT)	SAVSB01	65 18 09.2	96 24 49.5	abandoned
Lapland Longspur	P16	LLGH07	65 17 56.7	96 23 05.6	unknown
Savannah Sparrow	P15	SAVJB03	65 17 52.7	96 23 74.2	failed
Semipalmated Sandpiper	P15	SSJB03	65 17 55.7	96 23 84.0	failed
Lapland Longspur	NE	360G	65 24 46.3	96 41 09.2	success
Semipalmated Sandpiper	CAMP	SSNP04	65 25 05.0	96 40 51.0	success
Horned Lark	NE	359G	65 24 48.9	96 41 12.7	success
Least Sandpiper	P08 (OUT)	LSSB01	65 19 14.8	96 27 53.5	success
Least Sandpiper	P12	LSNP01	65 18 04.9	96 25 38.5	success
Lapland Longspur	CAMP	LLNP12	65 24 09.9	96 40 54.5	failed
Savannah Sparrow	P09	SAVNP01	65 19 04.5	96 27 36.1	unknown
Savannah Sparrow	P09 (OUT)	SAVJB04	65 19 10.9	96 27 32.3	unknown
Savannah Sparrow	P16	SAVGH01	65 17 58.6	96 23 21.3	abandoned
Common Redpoll	P18	CRSB03	65 17 35.2	96 23 06.0	failed
Common Redpoll	P09	CRNP02	65 19 07.7	96 27 23.4	unknown
Lapland Longspur	P02	LLGH02	65 23 24.2	96 39 58.4	abandoned
Lapland Longspur	P02	LLJB03	65 23 39.7	96 39 98.9	unknown
Lapland Longspur	P02	LLNP01	65 23 20.5	96 40 16.1	abandoned
Lapland Longspur	P05	LLSB03	65 22 15.3	96 37 04.6	success
Unknown	P05	UNKNEST3	-	-	unknown
Lapland Longspur	P06	LLGH06	65 22 13.7	96 36 28.2	abandoned
Common Redpoll	P07	CRSB02	65 19 18.9	96 28 41.9	failed
Lapland Longspur	P07 (OUT)	LLJB04	65 19 17.5	96 28 64.5	failed
Horned Lark	P08	HLGH06	65 19 11.5	96 27 52.0	failed
Lapland Longspur	P08	LLNP15	65 19 08.7	96 27 43.7	failed
Savannah Sparrow	P08	SAVSB02	65 19 08.0	96 27 59.9	unknown
Rock Ptarmigan	P08 (OUT)	RPGH01	65 19 22.8	96 28 06.3	success
Lapland Longspur	P09	LLNP09	65 19 06.5	96 27 24.7	failed
American Black Duck	P09 (OUT)	AMBDGH01	65 19 09.4	96 27 30.3	unknown
Rock Ptarmigan	P10	RPNP02	65 18 08.1	96 24 59.2	success
Lapland Longspur	P11	LLJB08	65 18 24.5	96 25 99.7	abandoned

Table 13.1: Continued

Species	Plot	Nest Name	Nest Lat	Nest Long	Fate
Lapland Longspur	P14 (OUT)	LLNP10	65 17 50.9	96 23 32.9	unknown
Lapland Longspur	P15	LLJB02	65 17 61.4	96 23 82.8	unknown
Lapland Longspur	P15	LLJB05	65 17 64.0	96 24 03.0	failed
Lapland Longspur	P15	LLJB07	65 17 48.5	96 24 01.9	failed
Horned Lark	P16	HLGH04	65 17 56.0	96 23 29.5	success
Horned Lark	P16	HLGH05	65 17 58.2	96 23 15.4	success
Horned Lark	P17	HLGH03	65 17 48.6	96 23 12.9	unknown
Lapland Longspur	P18	LLSB08	65 17 35.2	96 23 16.0	unknown
Semipalmated Sandpiper	P18 (OUT)	SSNP02	65 17 30.1	96 23 06.6	abandoned
Northern Pintail	P20 (OUT)	NPSB01	65 17 43.6	96 22 39.2	success
Savannah Sparrow	P20 (OUT)	SAVNP03	65 17 52.6	96 22 49.6	unknown

2018 WILDLIFE MONITORING SUMMARY

Table 13.2: Waterbird Nest Survey Results for the North East Diversion (NE) and Whale Tail Diversion (WT) Proposed Flood Zones.

Species	Site	Nest Name	Nest Lat	Nest Long	#	Sex	In/Out	Eggs	Nestlings	Activity
Least Sandpiper	NE	070JF	65 24 54.5	96 41 38.3	2	Pair	IN	4	0	incubating
Lapland Longspur	NE	073JF	65 25 05.5	96 41 31.5	2	Pair	OUT	4	0	incubating
Least Sandpiper	NE	092N	65 25 03.5	96 41 05.7	1	Unk	IN	3	0	incubating
Savannah Sparrow	NE	094N	65 25 03.2	96 41 03.9	1	Fem	IN	4	0	incubating
Semipalmated Plover	NE	095N	65 24 41.6	96 41 22.1	1	Fem	OUT	4	0	incubating
Lapland Longspur	NE	150J	65 24 55.3	96 41 40.8	2	Pair	IN	5	0	pair
Lapland Longspur	NE	152S	65 24 54.7	96 41 47.8	2	Pair	IN	4	0	pair
Least Sandpiper	NE	153J	65 24 58.9	96 41 28.5	1	Unk	IN	3	0	incubating
American Robin	NE	153S	65 24 53.1	96 41 47.0	0	Unk	OUT	0	0	empty nest, unsure if in use or abandoned
Lapland Longspur	NE	155J	65 25 00.2	96 41 23.1	2	Pair	IN	4	0	incubating
Lapland Longspur	NE	162J	65 24 54.9	96 41 12.9	1	Fem	IN	5	0	incubating
Least Sandpiper	NE	163J	65 24 45.2	96 41 11.6	1	Unk	IN	3	0	incubating
Lapland Longspur	NE	243J	65 24 49.8	96 41 14.0	1	Fem	IN	4	0	incubating
Lapland Longspur	NE	245S	65 24 40.9	96 41 20.1	1	Fem	IN	4	0	incubating
Semipalmated Plover	NE	250G	65 24 52.5	96 41 44.8	1	Unk	IN	3	0	incubating
Lapland Longspur	NE	264G	65 24 50.6	96 41 32.8	1	Fem	IN	5	0	incubating
Least Sandpiper	NE	357G	65 24 53.8	96 41 20.0	1	Unk	IN	4	0	incubating
Horned Lark	NE	359G	65 24 48.9	96 41 12.7	1	Fem	IN	2	0	incubating
Lapland Longspur	NE	360G	65 24 46.3	96 41 09.2	1	Fem	OUT	5	0	incubating
Least Sandpiper	NE	361G	65 24 39.1	96 41 20.2	1	Unk	OUT	4	0	incubating
Lapland Longspur	WT	070N	65 22 15.1	96 42 12.3	1	Fem	IN	5	0	incubating
Semipalmated Sandpiper	WT	072N	65 22 22.1	96 41 30.1	1	Unk	IN	4	0	incubating

MEADOWBANK GOLD MINE PROJECT
2018 WILDLIFE MONITORING SUMMARY

Table 13.2: Continued.

Species	Site	Point Name	Nest Lat	Nest Long	#	Sex	In/Out	Eggs	Nestlings	Activity
Lapland Longspur	WT	073N	65 22 25.0	96 41 18.8	1	Fem	IN	4	0	incubating
Savannah Sparrow	WT	074N	65 22 26.0	96 41 16.3	1	Unk	IN	5	0	incubating
Semipalmated Sandpiper	WT	075N	65 22 23.7	96 41 11.5	1	Unk	IN	4	0	incubating
Lapland Longspur	WT	076N	65 22 22.5	96 41 12.1	1	Fem	OUT	5	0	incubating
Lapland Longspur	WT	080N	65 23 28.0	96 41 40.6	1	Fem	IN	5	0	incubating
Lapland Longspur	WT	082N	65 23 10.4	96 41 59.4	1	Fem	IN	4	0	incubating
Lapland Longspur	WT	087N	65 23 08.3	96 41 09.6	1	Fem	IN	1	0	incubating
Lapland Longspur	WT	088N	65 23 32.4	96 40 34.6	1	Unk	IN	5	0	incubating
Lapland Longspur	WT	089N	65 23 36.8	96 40 34.1	1	Unk	IN	4	0	incubating
Common Redpoll	WT	095JF	65 23 26.9	96 42 23.5	2	Pair	IN	4	0	incubating
Lapland Longspur	WT	096N	65 23 49.2	96 40 26.4	2	Pair	IN	.	2	feeding chicks
Herring Gull	WT	103JF	65 22 59.8	96 42 48.2	2	Pair	IN	1	0	incubating
Semipalmated Sandpiper	WT	184S	65 23 08.8	96 42 41.2	1	Unk	IN	4	0	incubating
Lapland Longspur	WT	205J	65 22 47.7	96 42 45.2	1	Fem	IN	4	0	incubating
Lapland Longspur	WT	224J	UNK	UNK	1	Fem	UNK	5	0	incubating
Lapland Longspur	WT	224S	UNK	UNK	1	Fem	UNK	5	0	incubating
Horned Lark	WT	233S	65 23 28.4	96 41 37.5	1	Fem	IN	4	0	incubating
Long-tailed Duck	WT	234J	65 22 49.7	96 43 13.3	1	Fem	IN	6	0	incubating
Lapland Longspur	WT	235J	65 22 45.1	96 43 14.3	1	Fem	IN	5	0	incubating
Lapland Longspur	WT	237J	65 23 16.2	96 41 14.9	1	Fem	IN	3	0	incubating
Semipalmated Sandpiper	WT	238S	65 22 48.2	96 43 18.4	1	Unk	IN	4	0	incubating
Lapland Longspur	WT	239J	65 23 22.1	96 40 45.9	1	Fem	IN	5	0	incubating

MEADOWBANK GOLD MINE PROJECT
2018 WILDLIFE MONITORING SUMMARY

Table 13.2: Continued.

Species	Site	Point Name	Nest Lat	Nest Long	#	Sex	In/Out	Eggs	Nestlings	Activity
Savannah Sparrow	WT	240J	65 23 23.5	96 40 46.7	1	Fem	IN	5	0	incubating
Semipalmated Sandpiper	WT	240S	65 23 15.9	96 40 51.9	1	Unk	OUT	4	0	incubating
Lapland Longspur	WT	243S	65 23 28.7	96 40 34.8	1	Unk	IN	5	0	incubating
Lapland Longspur	WT	244S	65 23 32.7	96 40 33.0	1	Unk	IN	4	1	incubating
Lapland Longspur	WT	250S	65 23 31.9	96 40 29.6	1	Fem	OUT	0	4	flushed from nest in birch
Semipalmated Sandpiper	WT	308G	65 22 16.0	96 42 15.4	1	Unk	IN	4	0	incubating
Semipalmated Sandpiper	WT	335G	65 23 21.8	96 40 46.5	1	Unk	IN	4	0	incubating
Lapland Longspur	WT	336G	65 23 26.9	96 40 41.6	1	Fem	IN	4	0	incubating
Northern Pintail	WT	337G	65 23 28.6	96 40 40.4	1	Fem	IN	5	0	incubating
Savannah Sparrow	WT	339G	65 22 23.3	96 41 29.8	1	Fem	IN	5	0	incubating
Semipalmated Sandpiper	WT	342G	65 23 23.3	96 42 17.6	1	Unk	IN	4	0	incubating
Savannah Sparrow	WT	346G	65 23 12.3	96 42 43.4	1	Fem	IN	5	0	incubating
Lapland Longspur	WT	348G	65 23 05.9	96 42 54.7	1	Fem	IN	4	0	incubating
Semipalmated Sandpiper	WT	352G	65 23 25.3	96 40 44.1	1	Unk	IN	4	0	incubating
Lapland Longspur	WT	353G	65 23 29.0	UNK	1	Unk	IN	5	0	incubating

SECTION 14 • BREEDING BIRD MONITORING

14.1 OVERVIEW

The breeding bird PRISM (Program for Regional and International Shorebird Monitoring) plot and bird transect monitoring programs were designed to evaluate potential project-related changes in breeding bird species abundance, richness, and diversity over time. The program is one component of the larger monitoring strategy to evaluate the success of mitigation measures implemented to minimize the amount of vegetation (i.e., bird habitat) removed or degraded (e.g., dust fall) by the project, and whether certain mine activities such as the mine site or AWAR have resulted in reduced or compromised habitat function or effectiveness (i.e., zone of influence) for breeding birds.

For the breeding bird transects, data analysis in 2011 and 2015 indicated that no road-related effects had occurred to date, and thresholds had not been exceeded; therefore, annual transect surveys were permanently suspended after 2015.

14.2 OBJECTIVE

The objective of the breeding bird plot monitoring program is to confirm that a mine-related change of 20% function, determined by an increase or decrease in local breeding bird abundance, richness, and diversity, has not occurred. The program uses the widely accepted Canadian Wildlife Service's (CWS) PRISM protocols (CWS 2005). A secondary objective of the monitoring program is to determine more effective ways to prevent disturbance to nesting birds based on feedback from mitigation measures and observations.

14.3 DURATION

The breeding bird plot monitoring program is to continue every year during the construction period and for at least the first three full years of mine operation (2010 to 2012) in accordance with the TEMP (Cumberland 2006). The last PRISM plot survey was conducted in 2015.

14.4 RECOMMENDATIONS

For the breeding bird PRISM plots, data analysis in 2015 showed that most bird community indices were variable with little difference in overall trends between mine and control plots. Thresholds had not been exceeded and no additional management or mitigation considerations were necessary.

As indicated in the 2018 TEMP, a North American Breeding Bird Survey Route (BBS) should be established in 2019.

SECTION 15 • SUMMARY

The 2018 Wildlife Monitoring Summary Report describes the data collected to date from the various monitoring programs and describes natural and mine-related variability and potential mine-related effects within wildlife populations.

In 2018, monitoring efforts focused on areas immediately around the mine site, and along the AWAR Vault Haul Road, and Whale Tail Haul Road. Survey and monitoring emphasis was on evaluating current habitat losses, monitoring presence and success of raptors, and monitoring and managing wildlife presence, particularly Caribou, near the mine facilities and infrastructure. Regional-scale monitoring efforts focused on Caribou movement through ongoing satellite-collaring studies. A summary of potential project effects, threshold levels, and the 2018 monitoring results is provided in **Table 15.1**.

An analysis of mine-related habitat loss determined that losses have not exceeded amounts within permitted areas. As well, high suitability habitat thresholds for all wildlife VECs have not been exceeded.

Seven active Peregrine Falcon nests were observed and monitored at quarry sites along the AWAR in 2018, with successful nesting confirmed at three nests. No raptor nests were monitored along the Whale Tail Haul Road or in the vicinity of the Whale Tail Pit in 2018.

Collared Caribou and moderate-sized herds crossed the AWAR, Vault Haul Road, and Whale Tail Haul Road during the 2018 spring and fall migrations. Overall average Caribou numbers were recorded along project roads during surveys in 2018; however, numbers in April and May were higher than in any other previous year. Deflections of migrating Caribou, especially from the AWAR and Whale Tail Haul Road, continue to be a concern when looking at 2018 movement patterns and cumulative data since 2008. Further studies by Agnico Eagle and the GN are underway to understand the possible extent of the effect. The Baker Lake HTO, GN personnel, and other stakeholders will meet within the Terrestrial Advisory Group in 2019 to discuss the effectiveness of targeted monitoring of Caribou movement around mine facilities. By the end of 2018, 40 collars remained active, which provides excellent data for monitoring Baker Lake herds in 2019.

In 2018, one Wolverine was euthanized under authorization of the GN Conservation Officer; however, the threshold level for mine site or road-related mortalities for Predatory Mammals (i.e., Grizzly Bear and Wolverine two [2] individuals) was not exceeded. In addition, one Wolf needed to be euthanized under GN authorization. Grizzly Bears were observed near Meadowbank in 2018 but no deterrence was required. Numerous closures of the AWAR were required in April and May 2018 to permit the passage of migrating Caribou. No road or mine-related mortality of Caribou occurred in 2018, although one Caribou was struck by a road grader (extent of injury could not be determined).

Monitoring programs will continue to evolve throughout the life of the mine, contingent on data quality objectives and the necessity for adaptive management strategy implementation and subsequent effectiveness monitoring. Adjustments to the intensity and frequency of monitoring, and the extent of statistical analyses will vary between years depending on observed trends to date, data gap analysis, and determinations of effect.

Table 15.1: Potential Project Effects, Thresholds, and Results of Monitoring in 2018.

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2018	Threshold Exceeded (2018)
Vegetation (Wildlife Habitat)					
Habitat Loss (Compared to Permitted Areas)	Meadowbank = 1,532 ha AWAR = 348 ha Whale Tail = 1,473 ha Threshold is >5% habitat loss of permitted area	Ground Surveys; Mapping and GIS analyses – ELC habitat mapping	Every three years	YES	NO
Habitat Reclamation following Mine Closure	NA	Ground Surveys; Mapping and GIS analyses – ELC habitat mapping	Every three years to 11 years post-closure	NO	NA
Ungulates					
Habitat Loss and Degradation (Compared to Permitted Areas)	Meadowbank Growing = 531 ha Winter = 407 ha Whale Tail Growing = 76 ha Winter = 602 ha	Ground Surveys; Mapping and GIS analyses – ELC habitat mapping	Every three years	YES	NO
Sensory Disturbance	Mine Site - 500m AWAR – 1,000m	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys; Satellite-collaring data; HOL surveys; Daily and weekly pit and mine-site ground surveys; Incidental wildlife reporting; Motion sensing cameras	Daily / weekly	YES	YES. Deflections noted when Caribou approach the road. Delayed crossing of roads.
Project-related Mortality - Vehicle Collisions	2 individuals (cumulative across mine)	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys; Daily and weekly pit and mine-site ground surveys; Collision reporting system	Mine site – daily AWAR and haul roads – up to every two days at peak migration	YES	NO. One Caribou struck by a grader but extent of injuries not determined

Table 15.1: Continued.

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2018	Threshold Exceeded (2018)
Hunting by Baker Lake Residents	20% Change in Harvest Patterns in RSA from Historic	Hunter Harvest Study	Yearly	NO	NA. Suspended from 2016 to 2018, but will continue in 2019
Other Mine-related Mortality	2 individual (cumulative across mine)	Daily and weekly pit and mine-site ground surveys; Collision reporting system	Daily	YES	NO
Predatory Mammals					
Disturbance to denning predators	1 den failure	Den site surveys	As required	Not required	NO
Project-related Mortality	2 individuals (cumulative across mine)	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys; Daily and weekly pit and mine-site ground surveys; Collision reporting system	Mine site – daily AWAR and haul roads – up to every two days at peak migration	YES	NO. One (1) Wolverine dispatched in 2018
Raptors					
Disturbance of Nesting Raptors	1 Nest Failure	Daily and weekly pit and mine-site ground surveys; Incidental wildlife reporting; Dedicated raptor nest surveys; AWAR, Vault Haul Road, and Whale Tail Haul Road surveys	Nests within 200 m - daily Nests from 200 to 1000 m - weekly	YES	NO
Project-related Mortality	1 individual (cumulative across mine)	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys; Daily and weekly pit and mine-site ground surveys; Collision reporting system	Mine site – daily AWAR and haul roads – up to every two days at peak migration	YES	NO

Table 15.2: Continued.

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2018	Threshold Exceeded (2018)
Waterbirds					
Disturbance of Nesting Waterfowl	1 Nest Failure	Daily and weekly pit and mine-site ground surveys; Waterbird nest surveys	Yearly - for active nests within 200 m	YES	NO
Project-related Mortality	1 individual (cumulative across mine)	AWAR, Vault Haul Road, and Whale Tail Haul Road surveys; Collision reporting system	Mine site – daily AWAR and haul roads – up to every two days at peak migration	YES	YES. Two (2) dead Long-tailed Ducks found at Meadowbank Assay Lab
Other Breeding Birds					
Changes in Breeding Bird Populations	20% Change from Natural	Breeding Bird PRISM Plots and Transects	PRISM – every three years Transects - suspended	NO	NA

SECTION 16 • LITERATURE CITED

- Agnico Eagle Mines Ltd. (AEM) 2018. Meadowbank Division, Terrestrial Ecosystem Management Plan. Version 5, June 2018.
- Cumberland Resources. 2005. Meadowbank Gold Project. Environmental Impact Assessment. October 2005.
- Cumberland Resources Ltd. 2006. Meadowbank Gold Mine Project Terrestrial Ecosystem Management Plan (TEMP). Final Report, December 2006.
- Golder Associates. 2016. Whale Tail Pit Final Environmental Impact Statement Amendment.
- Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (*Rangifer tarandus* L.) in arctic and subarctic Canada. *Ecological Applications* 21: 2334-2348.



MEADOWBANK GOLD MINE PROJECT
2018 WILDLIFE MONITORING SUMMARY

APPENDIX A

2018 Road Survey Forms – Meadowbank AWAR and Vault Haul Road



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: January 23, 2018

Time Started: 09:00

Time Ended: 15:15

Temperature: 10C -34°C

Wind Speed: 4 km/h

Wind Direction: N

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utetnaq, 1 Passenger bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
11:21	RaTg	3	Rocky Tundra	run, walk	W	W	200m	91	14W	632522	7212999
13:04	RgTg	10	MOK	stand, Fo	—	W	200m	101	14W	637285	7214897

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AGNICO EAGLE

AWAR + VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: February 02 2018 Time Started: 09:00 Time Ended: 15:15

Temperature: 10C -35°C Wind Speed: 20 km/h Wind Direction: W

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Vattana F. Zaporta

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
09:25	Ar Ha	1	Bridge #1	Sit	—	Bridge	—	08	14W	643792	7143375
11:34	Rata	22	MBK	St. Fo	—	W	100m	19	14W	637260	7214703
12:53	M.O.	4	Hillside	Rest	—	W	200m	14	14W	631893	7212418
15:00	Raven	5	Bridge #1	Peck	—	—	—	08	14W	643792	7143375
Martin Theriault VAULT Wildlife survey.											
15:50	wolverine	1	tundra	walking on lake	east	east	150m (W.S)				

10/1



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: February 06 2018 Time Started: 09:00 Time Ended: 15:30
 Temperature: 10C -37°C Wind Speed: 36 km/h Wind Direction: NNW
 Visibility (check): 100m 500m 1 km Precipitation: Clear, extreme cold, windchill -56°C
 Field Team: V. Utetneg, F. Kaportu

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
11:15	RcTa	2	Hill Top	st. Fo	-	W	750m	16	14W	637224	7214755
13:15	m.	4	HS	st. Fo	-	W	700m	17	14W	632992	7214115
14:31	ArFo	1	Quarry 8	walk	it	W	100m	4	14W	628999	7170500
15:18		5	Bridge 1	Perch, Fly	variable	-		8	14W	643729	7143328



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: February 09, 2018 Time Started: 09:00 Time Ended: 16:00

Temperature: 10C -25°C Wind Speed: 39 km/h Wind Direction: W

Visibility (check): 100m 500m 1 km Precipitation: Clear Blowing snow

Field Team: Vutotnag, Passenger bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
15:31	Raven	75+	Bridge #1	Perch	—	AWAR	AWAR	8	14W	643792	7143725
15:33	Pteron	5	Tundra	(fly, land)	variable	W	75m	6	14W	644775	7148905
Vault Road Survey - T.T. & F.L. 2018-02-09											



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: February 13 2018

Time Started: 09:00

Time Ended: 15:15

Temperature: 10C -33°C

Wind Speed: 17 km/h

Wind Direction: N

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utotung, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
10:15	Ropt	25	AWAR	Mingle	Variable	—	—	4	14W	629002	717111
11:14	M.O.	10	Hillside	stand, rest	—	W	800 m	93	14W	630888	7211762
12:39	Ropt	5	Lake	rest	—	W	400 m	10	14W	637217	7214720
14:30	Arfo	1	Tundra	run	S	W	50m	29	14W	655713	7160336
Vault Road Survey - T.T v F.L									2018-02-09		

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AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb. 23, 2018 Time Started: 12:30 Time Ended: 13:00
 Temperature: 10C -39°C Wind Speed: 7 km/h Wind Direction: SE
 Visibility (check): 100m 500m 1 km Precipitation: Clear 100 FSO
 Field Team: V. Utetnag, J. Katchuk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing

NO WILDLIFE SIGHTED



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 06, 2018 Time Started: 09:00 Time Ended: 15:45

Temperature: 10C -18°C Wind Speed: 19 Km/h Wind Direction: S

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utterby, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
13:13	RaTa	1	lake	walk	S	W	500m	14	14W	637412	715607
14:25	A.Fo	1	Rocky Tundra	scavenger	variable	E	100m	50	14W	625205	7175919
14:32	RoPt	6	Bridge	mingling	-	W	50m	48	14W	625543	7177796
14:41	RoPt	5	AWAR	"	-	E	AWAR	46	14W	628994	7172646
15:06	ArHa	4	Quarry 3	sit	-	W	50m	23	14W	632971	7156289
Mar 7, 2018 Tom T x Isabelle C							-17°C		SE wind	Light snow	



AGNICO EAGLE

Vault

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 16 2018

Time Started: 12:30

Time Ended: 13:10

Temperature: 10C -37°C

Wind Speed: 10 km/h

Wind Direction: SW

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utterby, R. Allard

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing

NO WILDLIFE SIGHTED



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 04, 2013 Time Started: 09:00 Time Ended: 15:30

Temperature: 10C -19°C Wind Speed: 24km/h Wind Direction: NE

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utatany, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:49	RaTa	40	HT	st. Fo	—	W	500m	9	14W	643912	7143567
13:44	RaTa	22	Hill Top	Walk	N	W	600m	82	14W	626921	7203797
14:22	R. Ta	20	Hill side	Fo	—	W	850m	84	14W	626626	7180125
14:52	RaTa	52	Rocky HT	St. Fo	—	W	400m	38	14W	630403	7166241
16:45	Rata	22	tundra	Grazing	—	W	300m	23			
16:45	ArchHare	7	tundra	Resting/running	East	Both sides	50m	23			
18:15	Wolverine	1	tundra	Running	South	E	1000m	101			

~~no GPS or return~~

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 13, 2018 Time Started: 09:00 Time Ended: 17:00
 Temperature: 10C -25°C Wind Speed: 20 km/h Wind Direction: NW
 Visibility (check): 100m 500m 1 km Precipitation: Clear
 Field Team: V. Utatnez, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:26	Rata	5	sandy	stand fo	—	w	400m	7	14W	644223	7142108
9:51	Rata	75	"	WALK	S	w	500m	30	14W	634921	7161234
10:08	Rata	10	"	FO WALK	S	w	550m	44	14W	628642	7171488
10:19	Rata	45	Hill Top	FO, stand	—	w	450m	49	14W	625442	7174621
10:40	Rata	50	HT	walk	S	w	750m	69	14W	627007	7181556
11:02	Rata	20	Rocky HT	FO stand	—	w	400m	88	14W	631077	7206555
11:19	Rata	9	Hill side	stand part	—	w	100m	101	14W	635349	7217004
13:47	Rata	200	HT	stand, fo	—	w	1 km	102	14W	636436	7216789
13:56	M.O.	6	Hill Top.	ST, fo	—	w	500m	103	14W	634288	7217200
14:11	M.O.	16	HT	stand fo	—	w	100m	90	14W	630972	7209309
14:20	Rata	700	HT	ii	—	w	600m	81	14W	630919	7206489
14:47	Rata	23	"	walk	S	w	700m	72	14W	626789	7195423
14:52	Rata	22	Hill Top	walk	SW	w	500m	71	14W	627221	7193494
14:56	Rata	100	H.T.	FO, walk	w	w	700m	70	14W	627384	7192505
15:33	Rata	24	HT	WALK	S	w	900m	47	14W	625788	7173459

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 13, 2018 Time Started: 09:00 Time Ended: 17:00
 Temperature: 10C -25°C Wind Speed: 20 km/h Wind Direction: NW
 Visibility (check): 100m 500m 1 km Precipitation: Clear
 Field Team: V. Utting, J. Kotoluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
15:51	RaTa	5	Hill Top	walk	W	W	200m	40	14W	130012	7168193
16:11	RaTa	60	HT	walk	S	W	1km	30	14W	635375	7160720
16:17	RaTa	60	HT	walk	S	W	700m	26	14W	636198	7158426
16:22	RaTa	150	Lake	walk	S	W	950m	24	14W	"	"
16:37	RaTa	75	Hillside	walk	S	W	650m	16	14W	140738	7150652
16:41	RaTa	300	HT	walk	S	W	450m	15	14W	641526	7149827
2018-04-14											
9:00	Caribou	~300		grazing/walking	South	West	5m	55			
16:22	caribou	~300		grazing/laying		West	50m	53			
	"	~500		grazing		West	3km	49			
	"	?		walking	South	West	3km	44			
	"	?		walking	South	West	200m	43			
	"	?		walking	South	West	75m	42			
	"	?		walking	South	West	100m	39			
	"	?		walking	South	West	300m	34			



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 24, 2013

Time Started: 09:00

Time Ended:

Temperature: 10C ~~10C~~ -19°C

Wind Speed: 29 km/h

Wind Direction: NW

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utatnagan

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
10:10	RaTa	8	Tundra	stand, fo	→	W	900m	24	14W	637485	7156742
10:26	RaTa	15	Rakey Tundra	walk, run	NW	W	500m	24	14W	630458	7165330
11:16	RaTa	26	AWAR	cross rd	WSE	W-E	—	71	14W	627289	7193013
11:24	RaTa	200	Tundra	walk, run	H	W	600m	24	14W	626430	7197254
11:42	RaTa	100	Hill Top	stand, fo	—	W	400m	86	14W	629924	7205889
11:51	MO	6	hill	stand	—	W	400m	93	14W	630998	7211387
11:51	RaTa	10	Rake	stand	—	W	900m	93	"	"	"
14:09	RaTa	10	Tundra	walk	W	W	900m	26	14W	625646	7198650
15:20	RaTa	3	Tundra	stand	—	W	1 km	23	14W	637809	7156503
15:52	RaTe	2	Hill	run	S-SE	W	400m	4	15W	355187	7139012

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 01, 2018

Time Started: 09:00

Time Ended:

Temperature: 10°C -17°C

Wind Speed: 10 km/h

Wind Direction: WSW

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Utotnag, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:39	Rata	10	Tundra	walk	S	W	300m	19	14W	639510	7153645
10:27	Rata	3	"	walk, run	W	W	300m	56	14W	626608	7179954
12:56	M.O.	22	Hillside	rest	-	W	1.5km	91	14W	6329999	7218116
13:29	Rata	19	Hill Top	stand, fo	-	W	"	80	14W	627389	7201823
13:34	Rata	17	Tundra	walk	N	W	501m	76	14W	625905	7199339
13:48	Rata	55	"	"	N	W	900m	73	14W	626789	7195503
13:44	Rata	10	Hill side	walk	N	W	"	78	14W	627167	7193654
13:54	Rata	20	Tundra	"	"	"	"	66	"	626801	7189893
14:01	Rata	19	"	"	"	"	"	62	"	626260	7185957
14:06	Rata	17	"	"	"	"	"	59	"	625213	7142783
14:10	Rata	50	"	"	"	"	"	56	"	625837	7180667
14:17	"	60	"	stand, fo	-	W	"	55	"	626303	7179620
14:18	"	10	"	walk	S	W	2 km	53	"	625159	7178189
14:30	"	13	"	"	"	"	"	46	"	626759	7172964
14:33	VI	40	"	"	"	"	"	46	"	628147	7172570



AGNICO EAGLE

AWAY

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 01, 2018 Time Started: 12:30 Time Ended: 15:30

Temperature: 10C -13 Wind Speed: Wind Direction: WNW

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. Waparty, F. Kaporta

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
14:41	RaTa	3	Hill	stand	N	W	1 km	39	14W	629976	7162542
14:44	RaTa	30	"	"	-	W	> 1 km	38	14W	630369	7166065
14:47	RaTa	700	Tundra	"	-	W	900 m	38	14W	631096	7164550
14:55	RaTa	18	"	walk	S	W	"	30	"	633950	7162425
15:03	RaTa	7	"	"	"	"	"	23	41	637916	7156316
15:07	RaTa	130	"	"	E	E	1 km	20	"	638511	7155424
15:11	RaTa	-	crossing	-	-	-	-	20	"	634440	7153820
15:28	RaTa	22	Tundra	walk	N	W	650 m	8	"	144015	7142660
15:32	RaTa	9	"	"	"	"	500 m	4	"	644277	7139849
16:59	WOLF	2	tundra	walk	S	East	100	38			



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 08, 2018

Time Started: 09:00

Time Ended: 14:55

Temperature: 10C

Wind Speed: 50 km/h

Wind Direction: North

(check): 100m 500m +1 km Precipitation: Clear Snow

Location: V. utahensis / JKataluk, N.A.

Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	Kilometers	GPS Zone	Easting	Northing
ribou	~50		grazing	-	west	500m	17			
ribou	5		walking south	south	west	600m	23			
ribou	~60		walking south	south	west	300m	27	14W	0636683	7157526
ribou	~60		walking south	south	west	400m	34	14W	0632165	7163283
ribou	15		grazing	-	west	400m	39	14W	0630086	7167037
ribou	~25		laying down/grazing	-	west	400m	42	14W	0629791	7169011
ribou	~30		grazing/laying down	-	west	1km	49	14W	0625489	7174187
ribou	~30		grazing/laying down	-	west	400m	53	14W	0625104	7179085
ribou	9		walking	south	west	400m	57	14W	0625326	7182680
ribou	~30		grazing/laying down	-	west	~2km	70	GPS out of batteries		
"	25	valley	fo.	-	S	500m	13	14W	635999	7217018
rHo	1	AWAR	Ho	NE	AWAR	-	"	"	"	"
LoTa	2	HT	fo	-	E	300m	100	"	634233	7216763
LoTa	25	"	fo, walk	N	w	300m	93	"	630985	7211351
"	12	ridge	"	S	w	900m	61	"	626153	7186756
"	15	HT	walk	N	w	500m	23	"	638057	7155691

Species	No	Habitat	behavior	Diriell	Hot Fur	Len	waypoint
Caribou	150	Lake	walk	N	400m	16	641043/7150403

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 11, 2018

Time Started: 9:00

Time Ended:

Temperature: 10C 7°C

Wind Speed: 26 km/h

Wind Direction: NW

Visibility (check): 100m 500m 1 km

Precipitation:

Clear Blowing Snow

Field Team: V. Kutatneg, J. H. H. H.

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
10:03	ArHa	1	AWAR	cross rd	E-W	E-W	—	71	14W	625923	7120319
10:16	RaTa	25	Tundra	walk	S	W	300m	57	14W	625855	7179076
11:36	RaTa	20	Lake	walk	S	W	400m	83	14W	630894	7211741
11:41	RaTa	15	Tundra	walk	S	W	600m	94	14W	632674	7213217
11:41	M.O.	25	Tundra	rest	—	W	300m	99	14W	—	—
13:30	RaTa	12	Tundra	stop	—	W	500m	89	14W	631320	7207031
13:70	M.O.	4	"	"	—	E	250m	82	14W	"	"
13:53	RaTa	25	"	walk	S	W	900m	76	14W	625691	7198502
14:01	RaTa	32	RaTa	walk	W	W	950m	73	14W	626786	7195458
14:06	RaTa	25	Lake	walk	S	W	"	70	14W	627000	7194074
14:12	RaTa	10	Tundra	stop, fo	—	E	250m	69	"	627502	7192194
14:12	ArFu	1	AWAR	walk	variable	AWAR	—	69	"	"	"
14:25	RaTa	50	Hill	walk	S	W	400m	68	"	627273	7191727
14:25	Ptern	60	Tundra	variable	variable	E	900m	"	"	"	"
14:49	RaTa	60	"	fi	—	E	500m	54	"	626601	7180231
14:53		2	"	walk	NE	W	400m	53	"	626082	7179417

15:07	RaTa	75	Tundra Walk	N	500m	625441 - 7174616
15:26	RaTa	53	Hillside "	NW	350m	6306612 - 7168414
15:46	RaPt	2	AWAQ walk	-	AWAQ	134645 - 7161520
16:10	RaTa	10	Hill Top stand	-	500m	641534 - 7149768
16:26	RaTa	6	Tundra	N	500m	644448 - 7141593

~50 caribou crossed Km 14 to east side
 12 caribou walking south Km 17 - 300m
 ~20 caribou walking south Km 23 - 200m
 ~40 caribou walking south Km 34 - 150m
 ~20 caribou walking south Km 37 - 100m
 11 caribou walking south Km 66 - 300m
 ~20 caribou walking south Km 73 - 200m
 18 caribou walking south Km 77 - 150m
 14 caribou grazing west Km 98 - 175m
 ~50 caribou " " Km 99 - 50m



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 18, 2018 Time Started: 09:00 Time Ended: 16:30

Temperature: _____ Wind Speed: _____ Wind Direction: _____

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: V. utatung,

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
13:57	Rata	4	HT	stand	—	W	400m	99	14W	633206	7214941
14:00	Rata	10	"			W	500m	95	14W	632910	7213849
14:05	Rata	7	"	FO	—	W	300m	94	14W	632482	7212953
14:08	Rata	25	Lake	stand/wk	S	W	500m	93	14W	630902	7209893
14:14	Rata	25	HT	walk	S	W	350m	87	14W	630397	7206270
14:25	Rata	12	HT	walk	S	W	450m	80	14W	627779	7201764
14:28	Rata	14	"	"	S	W	500m	77	14W	626387	7200047
14:38	Rata	25	"	"	N	W	"	72	14W	627048	7193966
14:55	Rata	30	"	FO, Jt	—	W	250m	68	14W	626927	7191481
14:48	Rata	5	"	FO, Jt	—	W	500m	64	14W	626436	7187399
14:57	"	50	Hill Top	FO, Jt	—	W	1km	61	14W	625737	7184524
15:05	"	15	"	"	—	E	400m	53	14W	624999	7176761
15:10	"	25	"	"	—	SW	1km	49	14W	625485	7174244
15:15	"	5	"	"	—	W	600m	46	14W	627541	7172823
15:24	Rata	3	—	Fly land	—	W	400m	36	14W	630517	7165237



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 25 2018 Time Started: 09:00 Time Ended: 16:00

Temperature: -12°C Wind Speed: 2 k/h Wind Direction: NW

Visibility (check): 100m 500m 1 km Precipitation: clear

Field Team: V. Utaturu, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:57	RaTa	15	Tundra	fo, stand	—	W	400m	36	14W	630875	7164840
10:03	"	22	"	fo walk	W	W	400m	40	14W	629772	7169002
10:06	SaCr	2	"	stand	~	W	300m	44	"	628734	7171351
10:06	RaTa	8	"	"	—	E	400m	44	"	"	"
11:06	M.O.	2	Hill Top	stand	—	W	200m	94	"	632221	7212540
11:18	RaTa	8	MBE	stand fo	—	W	200m	103	"	636997	7215503
12:58	RaTa	12	Hill	walk	SW	W	400m	95	"	632067	7212458
13:06	RaTa	20	Tundra	walk	S	W	300m	89	"	631140	7208141
13:31	RaTa	15	"	"	N	W	600m	74	"	626441	7197290
13:33	Sik-sik	1	AWAR	stand	—	—	—	73	"	126721	7196221
13:37	Cabo	10	"	Fly over	N	—	—	72	"	627001	7194080
13:39	Peta	1	River 16	Perch	—	W	350m	71	"	627282	7192997
13:45	RaTa	30	Hill Top	stand	—	W	900m	66	"	626870	7190053
13:49	RaTa	46	Tundra	"	W	W	"	65	"	626332	7188269
13:51	RaTa	39	"	walk	S	W	450m	61	"	626260	7185908

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 25, 2018 Time Started: 09:00 Time Ended: 16:00

Temperature: -12°C Wind Speed: 21 km/h Wind Direction: NINW

Visibility (check): 100m 500m 1 km Precipitation:

Field Team: V. L. L. L. F. L. L. L.

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
13:57	RaTa	12	Hill Top	stand	-	w	650m	60	10W	625556	7184102
14:01	RaTa	5	"	"	"	"	400m	57	14W	625677	7180994
14:06	"	25	Tundra	stand, walk	S	w	400m	53	14W	625739	7178954
14:08	"	50	"	walk	NE	w	"	53	14W	625235	7178348
14:23	"	20	"	"	SE	w	300m	46	14W	628132	7172578
14:33	"	20	"	walk	S	w	"	39	"	630351	7165965
14:40	LeTa	6	"	"	"	E	500m	33	"	632270	7163202
14:54	PeFa	1	Quarry 3	Perch	-	S	300m	24	"	637907	7156450
15:00	RaTa	20	AWAR	cross rd	WSS	W-E	"	18	"	640096	7152524
15:17	RaTa	60	AWAR	cross rd	W-E	W-E	600m	15	"	641096	7150354
15:20	ArFo	1	"	Follow RaTa	W-E	W-E	-	15	"	"	"
15:47	RaTa	8	Tundra	walk	S	w	400m	8	"	644049	7142567



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 01, 2018 Time Started: 09:00 Time Ended: _____
 Temperature: -3°C Wind Speed: 24 Km/h Wind Direction: WSW
 Visibility (check): 100m 500m 1 km Precipitation: _____
 Field Team: V. Utatnag, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
12:40	SnGo	76	MBk	fo, rest	—	W	50m	106	14W	637831	7214369
12:42	"	20	"	"	—	E	100m	104	"	636727	7215426
"	RaTa	20	"	"	—	E	40m	104	"	"	"
"	Salr	2	"	"	—	E	100m	104	"	"	"
12:50	RaTa	12	"	fo	—	W	"	102	"	"	"
12:35	"	35	Tmbn	fo, st	—	E	"	99	"	674051	7215420
13:02	RaTa	16	Lake	"	—	W	999m	95	"	632596	7213123
13:10	RaTa	23	Lake	cake	S	W	500m	97	"	"	"
13:17	M.D	5	Tmbn	fo	—	W	300m	90	"	631029	7208922
"	RaTa	4	"	walk	N	W	"	89	"	"	"
13:20	"	60	"	"	W	W	"	82	"	630571	7206377
13:28	R.T	5	"	fo	—	E	400m	94	"	628350	72041053
13:32	"	22	"	walk	N	W	300m	87	"	627184	7209892
13:46	RaTa	16	"	"	S	W	500m	73	"	626800	7195879
13:49	RaTa	56	Quarry	fo	—	W	400m	70	"	627262	7193222

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AGNICO EAGLE

Awar

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 01 2010 Time Started: _____ Time Ended: _____
 Temperature: -3°C Wind Speed: 24 km/h Wind Direction: W
 Visibility (check): 100m 500m 1 km Precipitation: —
 Field Team: J. Uttag, A. Lepp

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
13:50	Peta	1	Quarry	Perch	—	W	100m	70	14W	62762	7193262
u	SuCr	1	—	—	W	W	—	u	u	u	u
u	SuGo	60	—	Flg	W	—	—	u	u	u	u
14:07	RaTa	5	Tundra	walk	N	W	600m	65	14W	626425	7187860
14:08	SuCo	2	Tundra	stand	—	W	500m	60	u	u	u
14:19	RaTa	6	u	walk	S	W	u	55	u	625614	7178929
14:26	RaTa	5	u	fo	—	W	700m	49	u	625317	7175357
u	SuCr	3	Tundra	stand	—	S/W	500m	47	u	u	u
14:35	RaTa	16	u	fo	SW	W	100m	48	u	625684	7173550
u	RaTa	12	u	u	—	W	700m	46	u	624210	7123121
u	SuCo	2	u	st.	—	W	100m	46	u	u	u
14:41	RaTa	10	u	Forest	—	W	400m	u	u	628162	7172542
14:44	Peta	1	Quarry 9	Perch	—	W	300m	44	u	628614	7171922
14:50	RaTa	10	Tundra	walk	S	W	u	41	u	629660	7169140
14:53	RaTa	18	u	u	W	W	700m	38	u	630177	7166825

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Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

 Date: June 08, 2018

 Time Started: 09:00

 Time Ended: 14:50

 Temperature: 0°C

 Wind Speed: 2 km/h

 Wind Direction: N

 Visibility (check): 100m 500m 1 km Precipitation: —

 Field Team: V. Utatnay, Passenger Bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
09:30	RaTa	15	Tundra	walk	WSW	W	250m	17	14W		
13:09	"	10	"	stnd, Fo	—	W	500m	71	14W	627025	7194004
13:51	LoTaDu	2	Pond	rest, fly	NE	E	250m	36	14W	630562	7164828
13:51	ScLR	2	Pond	walk	—	E	"	"	"	"	"
13:51	CaGo	4	"	rest	—	E	"	"	"	"	"
14:02	RaTa	5	Lake	walk	S	W	600m	24	14W	637506	7156626
14:02	PaFu	1	Quarry 3	Perch	—	W	150m	23	"	"	"
14:12	RaTa	3	Tundra	walk	W	W	500m	18	"	640937	7150473
14:28	LoTaDu	2	Pond	swim	—	E	100m	5	"	644810	7140179

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 12, 2018 Time Started: 09:00 Time Ended: 15:00

Temperature: 34°C Wind Speed: 35 km/h Wind Direction: SE

Visibility (check): 100m 500m 1 km Precipitation: Light rain

Field Team: V. Utteridge, MBA, VMOR

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:30	LoTadp	2	Pond	swim	—	E	150m	15	14W	641722	7149494
9:43	CeGo	15	HT	walk, fly	N	W	100m	24	14W	636175	7158922
10:31	ArFo	1	AWAR	35 ft pond	—	E	50m	65	19W	626340	7188576
10:35	RaTa	2	AWAR	walk	W	W	200m	68	14W	626999	7191570
10:50	RaTa	15	HT	walk	S	W	350m	82	14W	629791	7205396
11:00	"	9	Hill	stand, fo	—	W	450m	80	14W	631063	7208783
11:07	H1	50	HT	"	—	W	600m	96	14W	632753	7213341
13:32	Ptarm	2	AWAR	walk, fly	variable	W	50m	77	14W	626083	7199629
17:29	Solo	2	HT	"	"	E	50m	70	14W	627884	7192954



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 26, 2018 Time Started: 09:00 Time Ended: 15:30

Temperature: 5°C Wind Speed: 16 km/h Wind Direction: NNW

Visibility (check): 100m 500m 1 km Precipitation: clear

Field Team: V. Utatny, L. Archambault

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:08	CoLo	2	Airplane Lake	swim dive	—	E	250m	1	15W	356281	7136167
9:51	SoLo	3	HT	stand walk	—	E	200m	30	14W	634926	7161244
9:52	RaTa	3	"	"	variably	E	400m	32	14W	633000	7167312
10:19	M.O.	10	"	FO	—	E	750m	47	14W	626566	7173061
10:36	RaTa	4	Rocky HT	"	—	W	700m	53	14W	625318	7178473
11:12	ArWo	3	"	walk	S	W	400m	80	14W	627096	7201197
11:19	CaGo	2	Pond	swim	—	E	200m	84	14W	628688	7204217
11:27	RaTa	4	Rocky HT	FO stand	—	W	300m	87	14W	631312	7206782
11:40	M.O.	1	HT	stand	—	E	175m	104	14W	636667	7216494
13:25	RaTa	1	HT	run	S	W	175m	91	14W	630900	7209781
13:46	RaTa	3	"	FO	—	W	1 km	83	14W	627391	7203936
15:05	NoPi	6	Bridge #2	swim	—	W	50m	17	14W	640344	7151106

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 17, 2018 Time Started: 09:00 Time Ended: 15:30
 Temperature: 11°C Wind Speed: 18 km/h Wind Direction: E
 Visibility (check): 100m 500m 1 km Precipitation: Cloudy
 Field Team: V. Utotnag, J. Kataluk, M. Therion

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
10:15	M.O.	1	H.T.	Stand, Fo	—	E	200m	19	14W	639999	7152765
11:49	M.O.	9	H.T.	"	—	W	"	103	14W	636628	7216554
12:53	Pc Fa	1	Quarry 21	Marking	—	W	"	98	14W	630865	7211778
14:32	M.O.	2	Quarry 8	Fo, 1 hand	—	W	"	43	14W	628998	7171113
14:49	M.O.	2	Hillside	Rest	—	E	700m	33	14W	633316	7163597
14:57	M.O.	1	H.T.	stand	—	E	500m	27	14W	636176	7159355
14:57	R. Ta	1	HT	stand, walk	W	W	250	27	14W	"	"
15:01	Pc Fa	1	Hill	Fl	E	E	"	24	14W	637243	7156950
15:08	M.O.	1	Riverbank	stand	—	E	300m	19	14W	639998	7152765
15:11	M.O.	24	"	stand, rest	—	E	"	17	14W	640827	750581

1 of 1



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 21, 2018 Time Started: 09:00 (12:30) Time Ended: 15:15

Temperature: 17°C Wind Speed: 15 km/h Wind Direction: W

Visibility (check): 100m 500m 1 km Precipitation: Cloudy

Field Team: V. Utatnag, P. Dhern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:34	Sng	25	Grass, Tur	rest, walk	→	E	200m	13	14W	642637	7147622
9:37	Rata	30	"	st, walk	variable	E	250m	15	14W	641761	7149513
9:40	Rata	14	AWAR	cross rd	W	E-W	AWAR	16	14W	640503	7150855
9:44	Rata	40	HT	FO, stand	→	E	250	16	14W	640334	7151229
10:32	Rata	9	HT	stand, FO	→	E	300m	55	14W	626636	7180031
10:35	"	12	"	"	→	"	"	56	14W	625733	7182334
10:38	"	40	"	walk	→	E	400m	59	14W	625806	7184666
10:43	"	45	"	"	→	"	100m - 400m	64	14W	626328	7188292
10:52	"	15	"	"	→	"	"	73	14W	626850	7195126
10:59	"	28	Grass, Tur	"	→	NE	"	78	14W	626119	7199693
11:06	"	100	HT	"	→	"	"	84	14W	627367	7203166
11:15	"	16	"	"	→	"	"	85	14W	630014	7206020
13:21	Rata	18	HT	Rest, FO	→	E	351m	88	14W	630665	7206364
17:27	"	25	HT	FO, stand	→	E	800m	86	14W	629697	7204810
17:29	"	50	HT	"	→	E	300m - 800m	85	14W	629447	7204447

Log 2



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 24, 2018 Time Started: 09:00 Time Ended: 15:00

Temperature:

Wind Speed:

Wind Direction:

Visibility (check): 100m 500m 1 km Precipitation:

Field Team: V. Tuttle, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:29	M.O.	13	HT	stand, rest	—	W	200m	1	15W	356289	7136219
9:55	RaTa	8	Bridge 2	walk	N	E	200m	15	14W	641731	7149468
10:19	M.O.	1	HT	FO	—	E	200m	35	14W	631923	7163877
10:22	RaTa	1	HT	walk	N	E	150m	47	14W	626508	7173070
10:41	RaTa	9	HT	walk	N	E	350m	49	14W	625425	7174682
10:57	RaTa	3	Bridges	walk	NW	W	250m	62	14W	626208	7185575
11:02	RaTa	15	Hill	~	~	W	~	66	14	626342	7188761
11:04	RaTa	3	AWAR	walk	E-W	AWAR	AWAR	67	14W	626642	7189507
11:13	RaTa	2	Bridge 6	stand	—	E	350m	69	14W	627489	7192068
11:19	RaTa	11	Bridge 7	stand, FO	—	W	200-300m	74	14W	626684	719694
11:24	RaTa	17	HT	stand, FO	—	W	450m	79	14W	626484	7200185
11:29	RaTa	16	HT	walk	N	E	350m	81	14W	627478	7202958
11:34	RaTa	5	"	stand, FO	—	W	300m	86	14W	629571	7204509
11:40	HeGu	1	AWAR	Broken wing	—	AWAR	—	93	14W	630895	7211795
11:42	M.O.	5	HT	stand, FO	—	W	300m	"	"	"	"

Log 2



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 28, 2018

Time Started: 09:00

Time Ended:

Temperature: 10°C

Wind Speed: 14 km/h

Wind Direction: ESS

Visibility (check): 100m 500m 1 km

Precipitation:

Partly Cloudy

Field Team: V. Utatung

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:40	M.O.	1	Grass Tundra	fo, walk	E	200E	200m	12	14N	639435	7153794
10:04	RaTa	3	Hillside	walk	S	W	300m	41			
10:10	CaGo	200	Tundra	rest fly	S	W	200m	48			
10:10	RaTa	15	Hillside	walk fo	N	W	300m	48			
10:25	SnGo	200	Tundra	rest	-	W	200m	50			
10:15	RaTa	1	"	walk	E	E	200m	52			
10:28	SnGo	100	"	rest	-	E	150m	59			
10:32	RaTa	200	"	run	E	E	500m	70			
10:44	RaTa	45	"	walk	N	E	400m	74			
11:01	RaTa	6	AWAQ	3 cross rd	3N, 3E	E-W	200m	87			

106-



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 06, 2018 Time Started: 09:00 Time Ended: 17:15

Temperature: -1 Wind Speed: 12 Km/h Wind Direction: SW

Visibility (check): 100m 500m 1 km Precipitation: Some cloudy

Field Team: V. Utatnazy, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:00	Rata	7	HT	FO, walk	NE	E	350m	8			
9:05	"	11	"	"	"	E	300m	11			
	"	4	"	"	S	E	"	14			
9:31	"	4	"	"	NE	W	250m	24			
9:40	Rata	13	"	"	E	E	"	33			
9:56	Rata	8	"	FO, walk	W	W	"	41			
9:59	"	15	"	FO	-	W	400m	45			
10:03	"	1	"	Fin	S	E	-	48			
10:11	"	5	"	walk	NW	W	300m	50			
10:15	"	5	"	walk	SE	E	250m	54			
10:20	"	2	Hill Top	FO	-	E	800m	65			
10:37	"	2	Quarry	stand, fo	-	E	250m	73			
10:38	"	7	HT	"	N	E	500m	75			
10:45	"	1	HT	"	-	E	"	76			
10:50	"	2	Rocky HT	FO	-	W	100m	87			

1 of 3



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 06, 2018 Time Started: 09:00 Time Ended: 17:15

Temperature: -1 Wind Speed: 12 km/h Wind Direction: SW

Visibility (check): [] 100m [] 500m [x] 1 km Precipitation: clouds

Field Team: V. Utqimig, F. Laporte

Table with 12 columns: Time, Species, Qty, Habitat Type, Behaviour, Direction of Travel, Direction from Road, Distance from Road (m), K M, GPS Zone, Easting, Northing. Contains 18 rows of field observations.

2 of 3



AGNICO EAGLE

Awar

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 06, 2018 Time Started: 09:00 Time Ended: 17:15Temperature: ~1 Wind Speed: 12k-14 Wind Direction: SWVisibility (check): 100m 500m 1 km Precipitation:Field Team: V. Utom, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
15:30	SuGo	50	HT	rest	—	E	600m	57	14W	625220	717546
15:45	RaTa	9	HT	FO	—	E	100m	46	14W	627390	7122819
16:08	RaTa	4	HT	FO	—	E	850m	40	14W	630069	7168447
16:07	SuGo	9	Quarry 7	rest, fly	—	W	100m	u	u	u	u
16:10	SuGo	60	HT	rest	—	W	150m	38	u	u	u
16:10	RaTa	4	HT	FO, walk	E	E	u	37	u	630627	7165141
16:10	SuGo	2	u	—	—	E	100m	37	u	634224	7161929
16:16	SuGo	6	u	rest	—	E	300m	31	u	u	u
16:25	RaTa	20	u	FO	N	E	350m	u	14W	638490	7155451
16:25	BaTa	1	HT	Perch	—	E	u	22	14W	u	u
16:33	RaTa	68	Hill Top	Crossed d	E-W	E/W	100m	17	14W	640351	7151058
16:51	M.O.	1	Tundra	FO, stand	—	W	200m	11	14W	643536	7145222
16:51	RaTa	6	u	u	—	—	200m	10	u	u	u
16:51	SuGo	60	u	rest	—	E	200m	10	u	u	u
17:12	RaTa	6	u	walk	E	E	300m	5	u	644779	7139849

3 of 3



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 11, 2018 Time Started: 09:00 Time Ended: 15:00

Temperature: -1°C Wind Speed: 16 Km/h Wind Direction: NW

Visibility (check): 100m 500m 1 km Precipitation: 30% chance showers, flurries

Field Team: Vutaraq, Daily Ride

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
9:32	M.O.	5	AWAR	stand, fo	—	W	100m	6	14W	644388	7141743
10:03	SuGo	70	"	rest	—	E	100m	29	14W	634218	7161939
10:11	RaTa	2	"	walk	E	E	150m	32	14W	630861	7166129
10:18	"	12	"	walk	NW	W	250	43	14W	6288906	7171297
10:51	PeFa	1	"	Fly	S	E	"	70	14W	627532	7192245
10:54	RaTa	3	"	fo, walk	W	W	150m	72	14W	626819	7195298
11:09	SuGo	500	grassy thm	rest	—	E	300m	82	14W	627354	7203179
11:18	M.O.	2	Rocky thm	fo, stand	—	W	200m	87	14W	631215	7207879
11:33	M.O.	10	H ₂ O	rest, fo	—	W	500m	101	14W	636332	7217063
13:47	RaTa	40	AWAR	fo, stand	—	E	150m	56	14W	626421	7180202

L of L



AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 28, 2018

Time Started: 09:00

Time Ended: 17:00

Temperature: -4°C

Wind Speed: 16 km/h

Wind Direction: WNW

Visibility (check): 100m 500m 1 km

Precipitation: Clear Wind chill -8°C

Field Team: Vutanaq

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:24	M.D.	8	HT	FO, stand	—	W	300m	7	14W	644269	7142024
10:29	Rata	15	Lake	walk	N	E	700m	60	14W	625356	7183704
10:42	Rata	10	Hillside	FO, stand	—	E	1km	72	14W	626873	7194784
11:15	Rata	10	Rocky HT	"	—	W	400m	100	14W	634550	7212635
11:19	"	30	"	"	—	W	300m	104	14W	636907	7236444
15:30	"	150	HT	walk	N	E	400m	49	14W	625443	7124638
16:40	"	4	Hill Top	stand	—	W	500m	12	14W	643073	7146498
2018-09-29 Southbound Northbound											
7:45	caribou	~100		walking	South	East	400m	68			
8:15	muskox	3		grazing		East	5m	88			

L 5 L



AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 30 Sept 2018 Time Started: 8:15 Time Ended: 12:00

Temperature: -6 Wind Speed: 10-20 km/h Wind Direction: South

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: Jordan Mazur, Nat Waldner, Jesse Bell

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
8:40	Ptarmigan	4	Tundra	Perched in shrubs	South	west	50	43		Amaruq	to meadowbank
9:04	Caribou	2	Tundra	Grazing	South	East	200	12		↓	↓
10:25	Ptarmigan	10	Tundra	Flying	South	South	20	11		meadowbank	to Baker Lake
10:43	Musk Ox	25	Tundra	Grazing	South	North	100	100			
10:53	Ptarmigan	30	Tundra	Walking Around	South	South	50	80			
10:56	Caribou	50	Tundra	Grazing	South	North	500	76			
10:57	Musk Ox	5	Tundra	Grazing	South	North	500	76			
11:38	Caribou	10	Lake	Running from Hunters	South	North	300	38			
11:40	Sik Sik	1	Road	Curious	South	North	on Road	36			
11:43	Ptarmigan	10	Road	Flying away	South	North	on Road	33		↓	↓

APPENDIX B

2018 Road Survey Forms – Whale Tail Haul Road



AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2018-04-19 Amaruq + Vault Time Started: 7h30 Time Ended: 12h00
Temperature: -20 Wind Speed: ± 30km/h Wind Direction: North-West

Visibility (check): 100m 500m 1 km Precipitation:

Field Team: Martin Theriault / Jeff Hart

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
	Nothing on Vault road										
	<hr/>										
	Amaruq road										
	Caribou	50	tundra	walking	North	west	200	2			
	"	12	"	walking	North	west	>1000	6			
	"	±100	"	grazing		west	50 to 500	6.5			
	"	±40	"	walking	North	west	>1000	7			
			On	our way	back						
	Caribou	±400	"	walking	South-East	west	50 to 500	6 to 5			
	Meet the convoy at Km 7, Amaruq crew did the rest										



AGNICO EAGLE

Amaruq

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/07/20

Time Started: 13H30

Time Ended: 17H00

Temperature: 100 15°C

Wind Speed:

Wind Direction:

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: Fanny Laporte & Vansia Ordaz

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone location	Easting	Northing	
17H30	Muskox	1	tundra	Grazing	east		200		31		D	
13H40	Caribou	3	↓	"	W		300		6.5			
13H45	Caribou	8		"	E		25		10			
"	Caribou	5		"	E		50		10.3			
"	Caribou	3		"	W		100		11			
"	Caribou	5		"	W		20		11			
13H50	Caribou	2			Running	W		50		16		
13H55	Caribou	1			walking	W		300		17.5		
14H30	Caribou	1			immobile	W		400		30		
14H40	Caribou	3			Grazing	W		50		35		
14H45	Caribou	25			"	E		80		35.5		
15H30	Muskoxs	3		walking	E		500		41.5			
16H00	Caribou	20		Grazing	E		450		51.5			
16H30	Caribou	25		"	E		400		59			



AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 30 Sept 2018 Time Started: 8:15 Time Ended: 12:00

Temperature: -6 Wind Speed: 10-20 km/h Wind Direction: South

Visibility (check): 100m 500m 1 km Precipitation: Clear

Field Team: Jordan Mazur, Nat Waldner, Jesse Bell

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
8:40	Ptarmigan	4	Tundra	Perched in Shrubs	South	West	50	43		Amaruq	to Meadowbank
9:04	Caribou	2	Tundra	Grazing	South	East	200	12		↓	↓
10:25	Ptarmigan	10	Tundra	Flying	South	South	20	11		Meadowbank	to Baker Lake
10:43	Musk Ox	25	Tundra	Grazing	South	North	100	100		}	}
10:53	Ptarmigan	30	Tundra	Walking Around	South	South	50	80			
10:56	Caribou	50	Tundra	Grazing	South	North	500	76			
10:57	Musk Ox	5	Tundra	Grazing	South	North	500	76			
11:38	Caribou	10	Lake	Running from Hunters	South	North	300	38		}	}
11:40	Sik Sik	1	Road	Curious	South	North	on Road	36			
11:43	Ptarmigan	10	Road	Flying away	South	North	on Road	33	↓		

APPENDIX C

2018 Wildlife Mitigation Documentation

From: [Tom Thomson](#)
To: v.utatnaq@gmail.com
Cc: [Meadowbank Environment](#)
Subject: FW: Road Status Update - 2018-03-13
Date: March 13, 2018 4:49:23 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)
[image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)
[image006.jpg](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[image011.jpg](#)
[image012.jpg](#)
[image013.png](#)
[image014.png](#)
[image015.png](#)
[image016.png](#)

Good morning Victor,

As of right now – the road is closed but the ride should leave as planned. If the weather does not improve and the daily ride needs escorted back to Baker – you will have to go back on the daily ride.

If things have cleared up by noon – you and I will complete the survey.

All for now,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
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agnicoeagle.com



From: Mathieu Paradis
Sent: Tuesday, March 13, 2018 5:31 AM
To: Meadowbank AEM; Meadowbank Dyno Nobel; Meadowbank Contractors; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road Status Update - 2018-03-13

Road Status Update



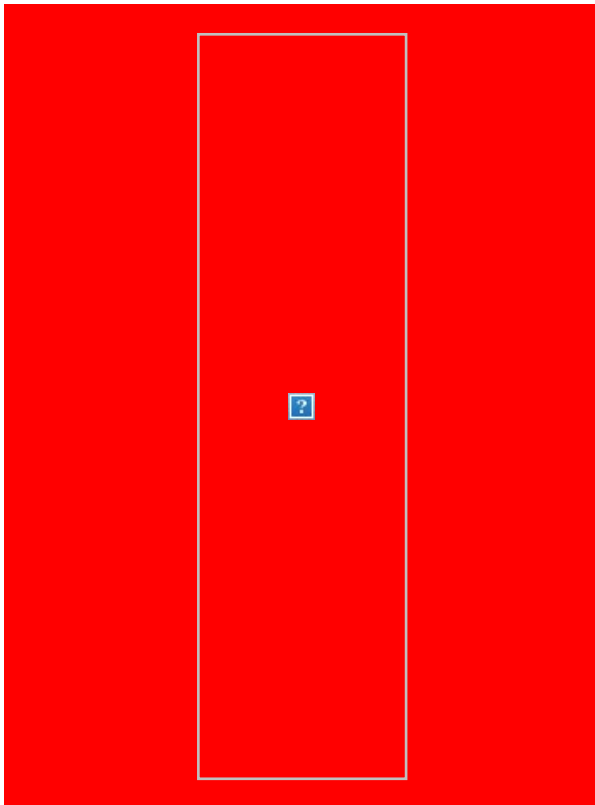
Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

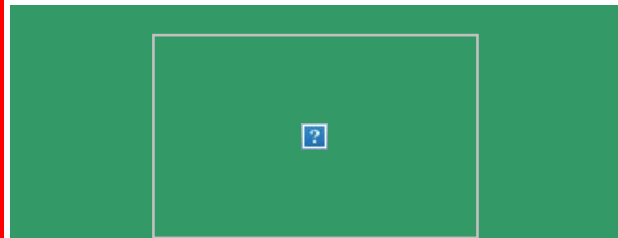
*The road between Baker Lake
and Exploration Camp is:*

Close



*The road between Exploration
Camp and Meadowbank is:*

Open



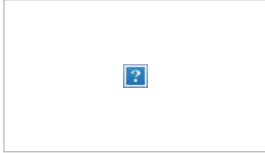
The Daily Ride: Will Leave as Planned

We will send an escort for the daily ride today, if the weather do not change.

We will provide an Update At

8:00 AM

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-05
Date: May 6, 2018 1:25:56 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

Comment

Due to caribou migration, the Amaruq Road is closed to all traffic from Vault to Amaruq. Environmental Department will go evaluate the situation this morning and update us on the measures to take. ERT can still travel on the Amaruq road if needed.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Meadowbank Environment Supervisors](#); [Karen Yip](#); [Laurier Godin](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Charles Blouin](#); [Gaetan Martel](#)
Subject: Meadowbank AWAR Closed_April 13th - night shift
Date: April 13, 2018 3:15:37 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)

Good evening,

Since caribou presence is increasing along Meadowbank's AWAR (km 15-23 and 102-105), we've decided to close the road at 17:00 today until we can reassess further.

We will have crews monitoring the road tomorrow to see if further actions are needed.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
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From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Laurier Godin](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Charles Blouin](#); [Gaetan Martel](#); [Pierre Laberge](#)
Subject: Meadowbank AWAR and Amraruq road Closed_April 14th
Date: April 14, 2018 7:27:06 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)

Good evening,

Since caribou presence is increasing along Meadowbank's AWAR (km 40-60 and 102-105) and also observed along the Amraruq road (km 1,5-14).

The AWAR has remained closed all day,
The Amraruq road was closed around 17:00 until further monitoring.
The Vault hauling road was restricted to small vehicles only at 16:00 and for the remainder of the day and night shift.

A detailed map showing locations will be sent tomorrow.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Roch Chabot](#)
To: [Amaruq](#); [Cam Hodgins - AFS](#); [Meadowbank AEM](#); [Meadowbank Contractors](#); [Road Status Amaruq](#)
Subject: Caribou presence
Date: April 15, 2018 9:12:07 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning everyone,

Following a discussion with Environmental Department, the Amaruq Road will **remain closed** to all traffic because of the herd of caribous between KM1.5 and KM3.5.

Environmental Department allowed us to send road maintenance equipment from Amaruq on the road to maintain it and avoid falling behind on the road maintenance. The road maintenance equipment will not be allowed south of KM8 to avoid disturbing the caribous.

If caribous are spotted in other location along the Amaruq road, we will contact Environmental Department and follow their directives.

ERT is till allowed to travel on Amaruq Road in case of an emergency.

Thank you

Roch Chabot
Amaruq Road supervisor

roch.chabot@agnicoeagle.com

T: 819.759.3555 x6976

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From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Laurier Godin](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Charles Blouin](#); [Gaetan Martel](#); [Pierre Laberge](#)
Subject: RE: Meadowbank AWAR and Amraruq road Closed_April 15th
Date: April 15, 2018 6:55:25 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)
[image001.jpg](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR (km 40-50 and 90-100) and also observed along the Amaruq road (km 1-5).

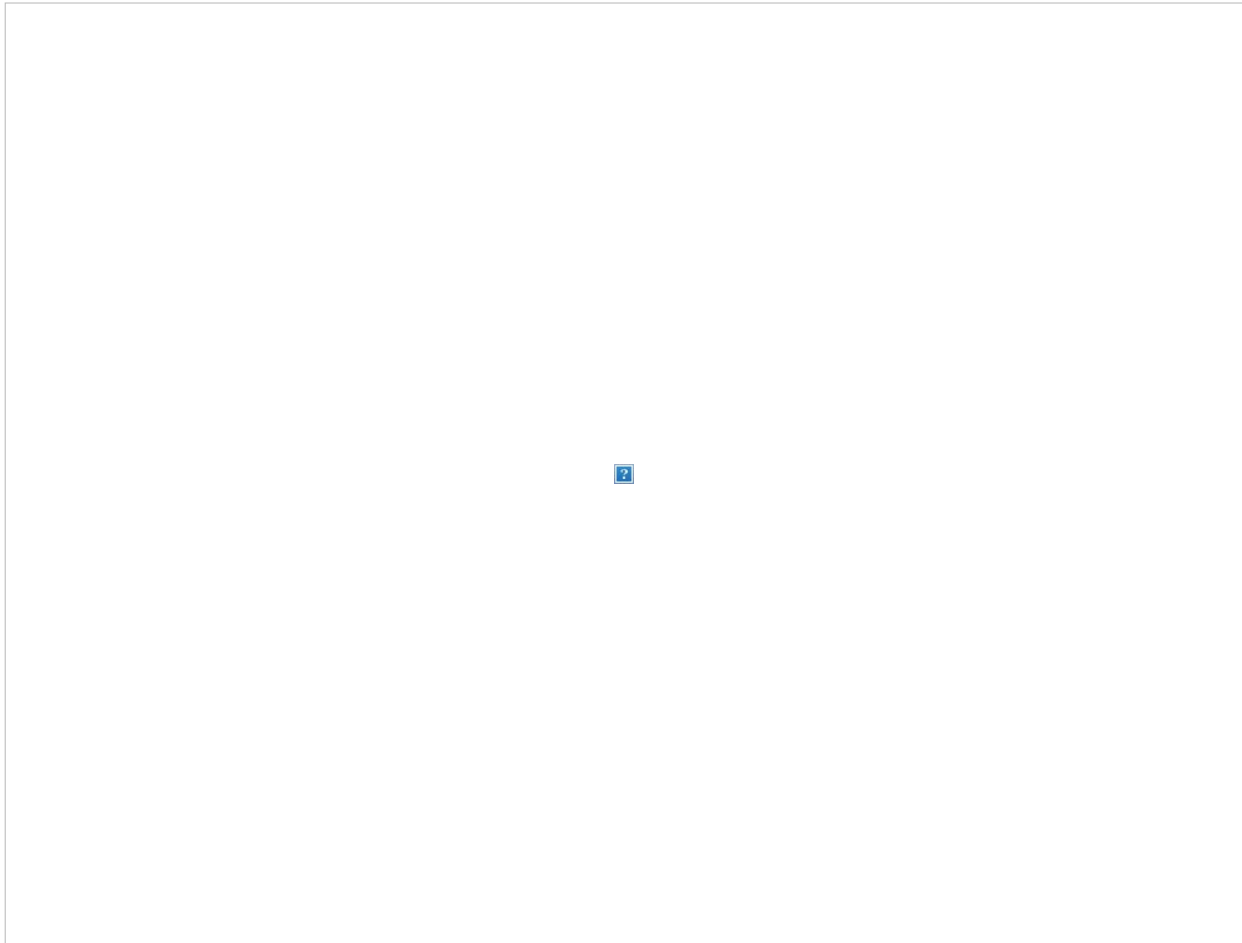
The AWAR has remained closed all day.

The Amaruq road has remained closed all day.

The Vault hauling road was restricted to small vehicles only up to this morning until 11:00 and was open for hauling during the day. All traffic was suspended from 18:30 to 20:00 with presence increasing along the road.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.



If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Yves Dufour](#)
To: [Darcy Porter](#); [Dave Caron](#); [Ken Smith](#); [Rene Anctil](#); [michael sequin](#); [Derek Chirta](#)
Cc: [Donald Aubin](#); [Meadowbank Environment](#)
Subject: Amaruq road Caribou
Date: April 16, 2018 6:13:29 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Hi guys

Can you tell the guys if they go on the Amaruq, make sure they reduce the speed if they see some caribou because they might still have some not far from the road and we need to not disturb them.

Thanks, Yves

Yves Dufour
Maintenance Supervisor

yves.dufour@agnicoeagle.com

T: 819.759.3555 x6825

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); ["Luis Manzo \(lmanzo@kivalliqinuit.ca\)"](#); [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Pierre Laberge](#)
Subject: Meadowbank AWAR and Amraruq road Closed_April 16th
Date: April 16, 2018 5:10:16 PM
Attachments: [image009.jpg](#)
[image010.jpg](#)
[image011.jpg](#)
[image012.jpg](#)
[image013.png](#)
[image002.jpg](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

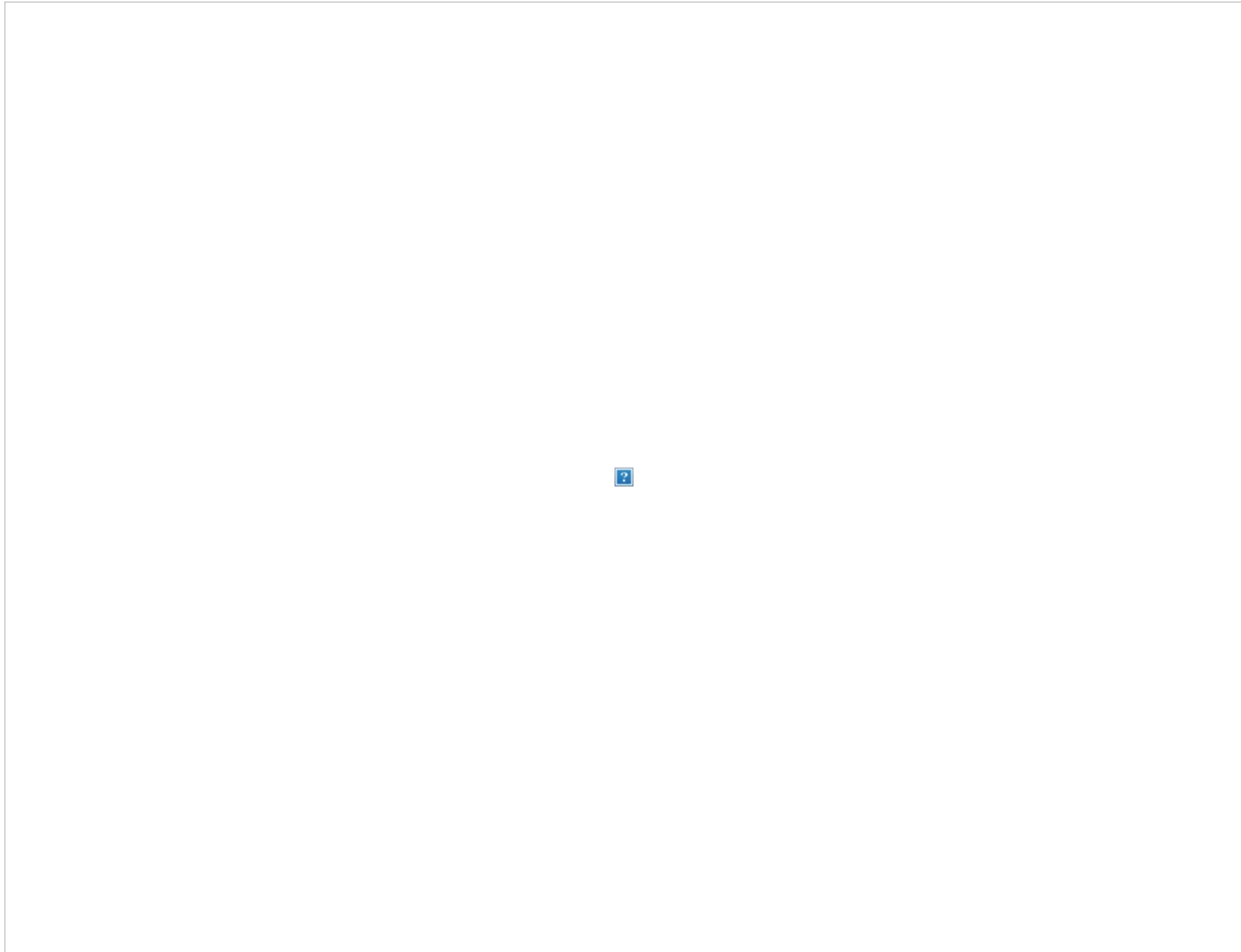
The AWAR has remained closed all day.

The Amaruq road has remained closed all day.

The Vault hauling road remained open all day.

We will have crews monitoring the road tomorrow with the assistance of the KIA to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.



If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

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From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); ["Luis Manzo \(lmanzo@kivalliqinuit.ca\)";](#) [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Pierre Laberge](#); [Nicolas Plouffe-Deschamps](#)
Subject: Meadowbank AWAR and Amraruq road Closed_April 17th
Date: April 17, 2018 6:13:21 PM
Attachments: [image001.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.jpg](#)
[image007.png](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amaruq road. Presence has decreased significantly, with groups still closer to the roads.

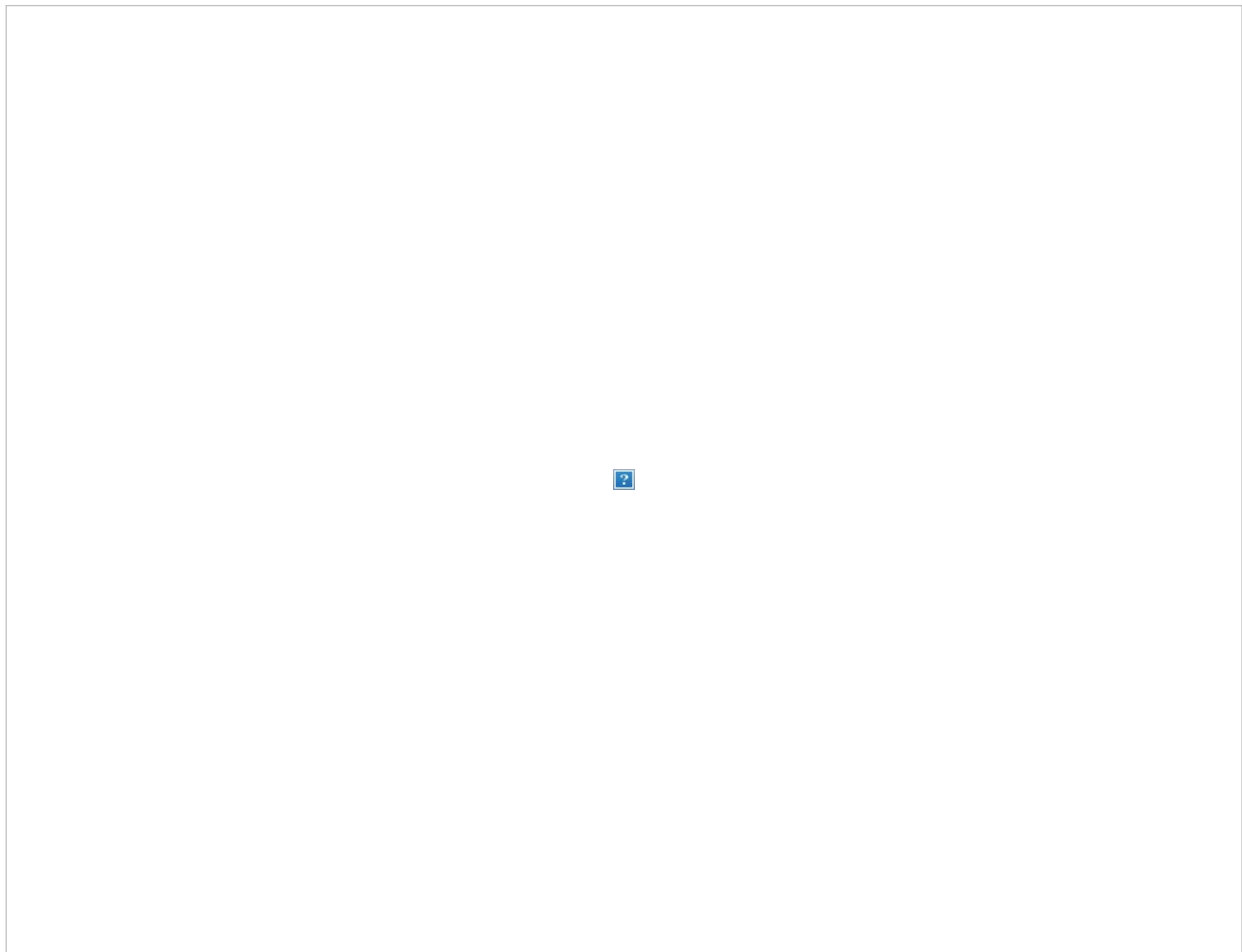
The AWAR has remained closed all day.

The Amaruq road has remained closed all day.

The Vault hauling road remained open all day.

We will have crews monitoring the road tomorrow with the assistance of the KIA and BLHTO to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.



If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Pierre Laberge](#); [Nicolas Plouffe-Deschamps](#)
Subject: Meadowbank AWAR and Amraruq road Closed_April 18th
Date: April 18, 2018 4:48:03 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)

Good evening,

Weather conditions at our sites created very low visibility, thus no monitoring was done during the day.

The AWAR has remained closed all day because of weather.

The Amaruq road has remained closed all day because of weather.

The Vault hauling road was closed during the day because of weather.

We will have crews monitoring the road tomorrow with the assistance of the KIA and BLHTO to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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agnicoeagle.com



From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-04-22
Date: April 22, 2018 8:09:27 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

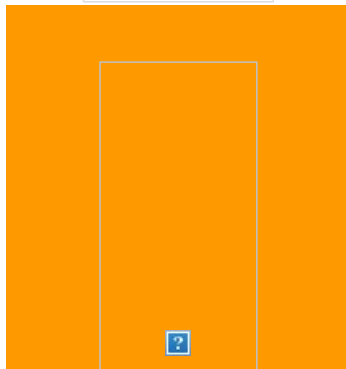
E & I

Comment

The Road is open but Environment still monitoring for caribou.

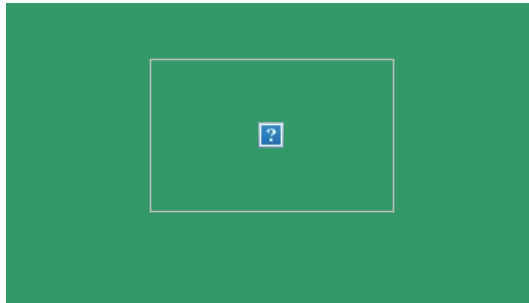
The road between Baker Lake and Exploration Camp is:

Open With Restriction



The road between Exploration Camp and Meadowbank is:

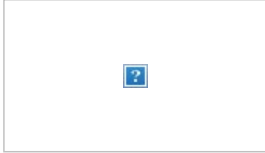
Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-22
Date: April 22, 2018 5:36:38 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

Convoy for vehicles bigger than pickup truck departure from Transit Pad at 8h00. All pickups can go on their own.

We will provide an Update

The sector from k 0 to k20 will be the only part to go under escort for now.

Comment

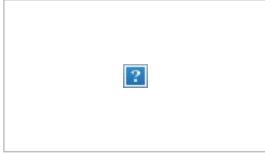
Always respect the Wildlife Procedure. Make sure to comply to Environment instruction. Some meeting points are not reopened yet. Snow removal is ongoing. Take your time to select the proper location to meet on the road. Ensure a good communication. Supervisors, make sure to pass this information to your personnel.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-22
Date: April 22, 2018 9:19:12 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

No convoy anymore for now

We will provide an Update

Comment

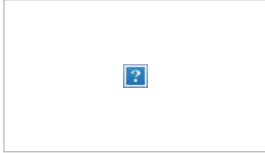
All types of vehicles can proceed on their own for now. Environment will continue to monitor the migration. We'll keep you posted. Reduce your speed if you see any caribou.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-23
Date: April 23, 2018 4:49:09 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

We will provide an Update

Comment

Some caribou remaining along the road. Respect Wildlife Protocol. Thank you.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:

From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-04-23
Date: April 23, 2018 2:24:05 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

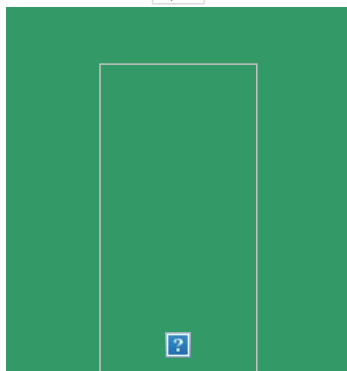
E & I

Comment

The Road is open for all traffics and Environment still monitoring the caribou.

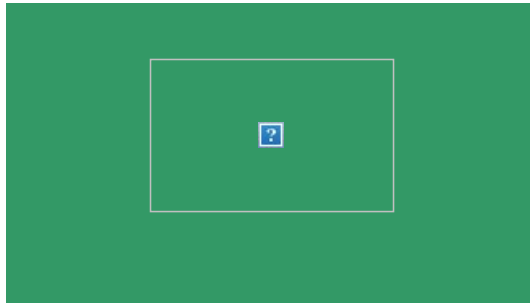
*The road between Baker Lake
and Exploration Camp is:*

Open



*The road between Exploration
Camp and Meadowbank is:*

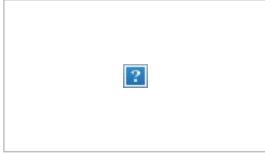
Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-23
Date: April 23, 2018 4:49:37 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

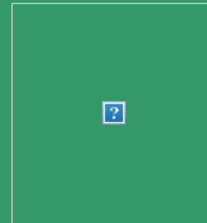
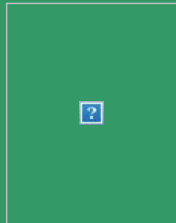
We will provide an Update

Comment

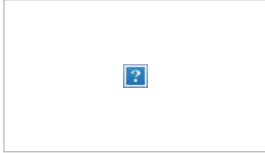
Some caribou remaining along the road. Respect Wildlife Protocol. Thank you.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-24
Date: April 24, 2018 3:15:31 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

We will provide an Update

Comment

Be aware we are experiencing poor radio communication in Amaruq area. Reduce your speed and pay attention.

The road between Meadowbank
and Vault is:

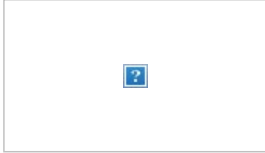
The road between Vault
and Amaruq is:

Select...

Select...



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-24
Date: April 24, 2018 3:16:10 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

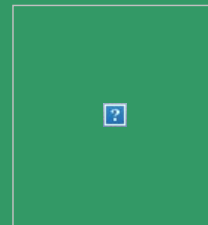
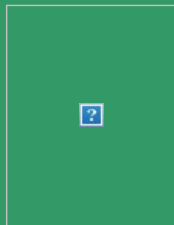
We will provide an Update

Comment

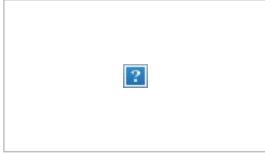
Be aware we are experiencing poor radio communication in Amaruq area. Reduce your speed and pay attention.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-25
Date: April 25, 2018 3:06:44 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

We will provide an Update

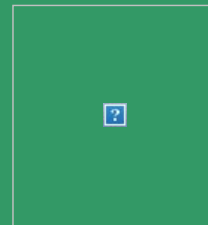
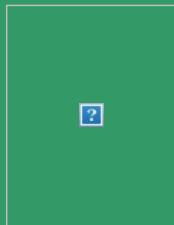
According to caribou migration

Comment

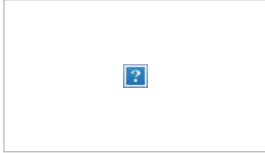
Watch out for construction, caribou and Long Haul Truck

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-26
Date: April 26, 2018 3:40:54 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Will Leave as Planned

We will provide an Update In If the Conditions Are Changing

According to caribou migration

Comment

The road between Meadowbank
and Vault is:

Open

The road between Vault
and Amaruq is:

Open



From: [Jacques Fortier](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: CARIBOU MIGRATION NO TRAFFIC TO OR FROM VAULT OR AMARUQ
Date: April 27, 2018 5:36:22 PM

The Vault Mining Road is now restricted for ERT.

Speed Limits: Where small to moderate aggregations of caribous (i.e., 1-50 animals) are observed within 100 m of the road, travel speeds should be reduced to 30 km/hr and beacon lights closed.

Animal Right-of-Way: Caribous and all wildlife will be given right-of-way on the road. Vehicles must stop until caribous are off the road

Caribou migration on the Vault Mining Road.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Supervisors will be performing escort to support Vault Pit mining area

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

From: [Jacques Fortier](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: Caribou Vault road
Date: April 27, 2018 2:59:55 AM

There were caribous spotted near Vault kitchen

Speed Limits: Where small to moderate aggregations of caribous (i.e., 1-50 animals) are observed within 100 m of the road, travel speeds should be reduced to 30 km/hr and beacon lights closed.

Animal Right-of-Way: Caribous and all wildlife will be given right-of-way on the road. Vehicles must stop until caribous are off the road

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day

From: [Donald Dodge](#)
To: [Mbblast Notice](#); [Meadowbank AEM](#)
Subject: CARIBOU MIGRATION NO TRAFFIC TO OR FROM VAULT OR AMARUQ
Date: April 27, 2018 7:08:14 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning everyone,

The Vault Mining Road is now restricted for ERT.

Caribou migration on the Vault Mining Road.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

Inspection, Planning, Decision and Execution in all we do
SUPERVISION FORMULA PHILOSOPHY

HOPE / Helping Other People Evolve
HOPE / Helping Other Projects Evolve

Donald Dodge
Mine Dispatcher

donald.dodge@agnicoeagle.com

T: 819.759.3555 x6949

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
XOC OAO

agnicoeagle.com



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-27
Date: April 27, 2018 11:20:42 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

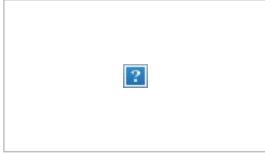
Since the Vault Road is closed because of caribou crossing the road, you should consider the Amaruq Road restricted only from Vault to Amaruq. ERT can still go.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-27
Date: April 27, 2018 4:44:31 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

Road construction. Equipment and people on foot in between k 0 and k 17. Respect all speed limits at all time. Pay attention to caribou.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-04-27
Date: April 27, 2018 3:37:33 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

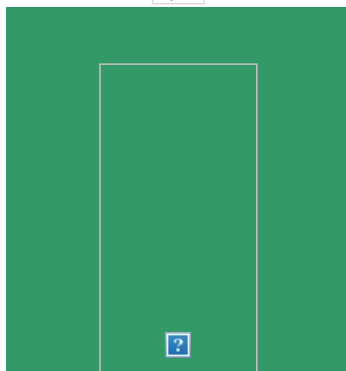
E & I

Comment

Be aware of caribou migration between KM 9 and 12, slow down, strobe light off and don't forget they have right of ways .

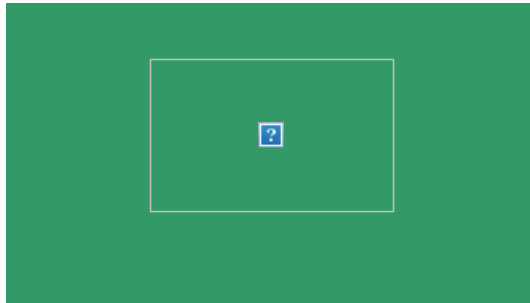
*The road between Baker Lake
and Exploration Camp is:*

Open



*The road between Exploration
Camp and Meadowbank is:*

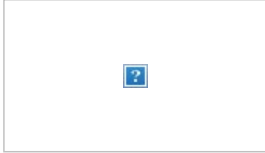
Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-27
Date: April 27, 2018 4:26:30 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

Avoid to go on the road unless it is an emergency. To call night shift Mine Supervisor for any request.

Comment

The Vault Road is closed due to caribou migration. ERT can go at all time under escort.
Mine Operation will perform a few convoys during the night. The Amaruq remains open for now in between Vault and Amaruq. Please contact the Mine Supervisor before planning to go on the road for the night shift.

*The road between Meadowbank
and Vault is:*

Close

*The road between Vault
and Amaruq is:*

Open With Restriction



We apologize in advance for the inconvenience

From: [Martin Theriault](#)
To: [Jeff Hart](#)
Cc: [Meadowbank Environment](#)
Subject: RE: [EXTERNAL] Re: group e-mail
Date: April 28, 2018 11:51:09 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Hi Jeff,

We re-opened the Vault road around 11:00 this morning as the caribou finally made it across the road.

Yes we have someone from HTO to monitor with Fanny (Martin). They escorted the tankers back to Baker Lake around lunch time. We closed the AWAR after that as some herd were close to the road in between Baker and km 33. Fanny will monitor the area this afternoon and if nothing change, we will keep it close and Fanny will monitor again tomorrow morning to see if it's ok for the tanker to hit the road.

Regards

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: Jeff Hart [<mailto:landsbaker@kivalliqinuit.ca>]
Sent: 28 avril 2018 11:54
To: Martin Theriault
Cc: Meadowbank Environment
Subject: [EXTERNAL] Re: group e-mail

Hello,

How is the situation looking today, did the HTO find a monitor to stay on site?

Thanks

Jeff

-----Original Message-----

From: Martin Theriault <martin.theriault@agnicoeagle.com>

To: Jeff Hart <landsbaker@kivalliqinuit.ca>

Cc: Meadowbank Environment <meadowbank.environment@agnicoeagle.com>

Date: Thu, 26 Apr 2018 12:24:42 +0000

Subject: group e-mail

Hi Jeff,

In cc is the e-mail for the environmental department if you need to share anything with the group.

Thanks and have a good day

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

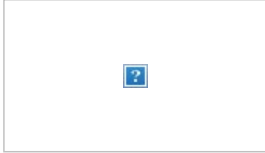
agnicoeagle.com



agnicoeagle.com



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-28
Date: April 28, 2018 4:14:20 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

Environment Department will monitor the migration and will make the call for today

Comment

Vault Road is closed. ERT can go under convoy. Mine Department will perform convoys with the approval of Environment

*The road between Meadowbank
and Vault is:*

Close

*The road between Vault
and Amaruq is:*

Open With Restriction



We apologize in advance for the inconvenience

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-28
Date: April 28, 2018 9:49:04 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

According to caribou migration

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:

Open

Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Martin Theriault](#)
To: [Jeff Hart](#); [Fanny Laporte](#)
Cc: [Meadowbank Environment](#)
Subject: RE: [EXTERNAL] Re: update 2018-04-28 migration AWAR
Date: April 29, 2018 1:49:52 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Hi Jeff,

Here for Amaruq and Vault, things are good, both roads are open and we monitor on a daily basis. Small numbers here and there and we stop the road traffic when we think they might go across. I know that the chopper was seen again today near caribou (very low) around km8 on the Amaruq road. Do you know if the GN are putting some collars on caribou or if it's only monitoring because they get very close and seem to disturb the herds.

For the AWAR, it's still close at this moment except for the road crew, Fanny and Martin (sent by HTO) are monitoring and we still have good numbers between km 23 and BL (this morning). We hope that having the road close will help them get across soon.

Any idea when it will be possible for you to send us your notes regarding the monitoring that was done last week?

Regards

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: Jeff Hart [<mailto:landsbaker@kivalliqinuit.ca>]
Sent: 29 avril 2018 15:33
To: Fanny Laporte
Cc: Meadowbank Environment
Subject: [EXTERNAL] Re: update 2018-04-28 migration AWAR

Good afternoon,

How're things looking today?

Thanks

Jeff

Sent from my iPhone

On Apr 28, 2018, at 4:15 PM, Fanny Laporte <fanny.laporte@agnicoeagle.com> wrote:

Hi,
Just a quick update,

In our afternoon of monitoring, we stopped at km 20 as many caribou were crossing from W to E, we estimate at 400 the number who crossed the road.

There is a lot more spread all along the road on the west side.

Tomorrow morning, we will leave at 6am and monitor the section from BL to km 44 because the night shift crew will do the other way while finishing their shift and going back to MB, there will be no other traffic.

We will give an update to all when we evaluate this and Cam from AFS is very supportive as well in this process.

Talk to you tomorrow,

Good evening

Fanny

From: Jeff Hart [<mailto:landsbaker@kivalliqinuit.ca>]

Sent: 28 avril 2018 14:11

To: Martin Theriault

Cc: Meadowbank Environment

Subject: Re: [EXTERNAL] Re: group e-mail

Sounds good, thanks for the update.

Jeff

Sent from my iPhone

On Apr 28, 2018, at 12:50 PM, Martin Theriault <martin.theriault@agnicoeagle.com> wrote:

Hi Jeff,

We re-opened the Vault road around 11:00 this morning as the caribou finally made it across the road.

Yes we have someone from HTO to monitor with Fanny (Martin). They escorted the tankers back to Baker Lake around lunch time. We closed the AWAR after that as some herd were close to the road in between Baker and km 33. Fanny will monitor the area this afternoon and if nothing change, we will keep it close and Fanny will monitor again tomorrow morning to see if it's ok for the tanker to hit the road.

Regards

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com

[<image001.jpg>](#)[<image002.jpg>](#)[<image003.jpg>](#)[<image004.jpg>](#)
[<image005.png>](#)

From: Jeff Hart [<mailto:landsbaker@kivalliqinuit.ca>]
Sent: 28 avril 2018 11:54
To: Martin Theriault
Cc: Meadowbank Environment
Subject: [EXTERNAL] Re: group e-mail

Hello,

How is the situation looking today, did the HTO find a monitor to stay on site?

Thanks

Jeff

-----Original Message-----

From: Martin Theriault <martin.theriault@agnicoeagle.com>
To: Jeff Hart <landsbaker@kivalliqinuit.ca>
Cc: Meadowbank Environment
<meadowbank.environment@agnicoeagle.com>
Date: Thu, 26 Apr 2018 12:24:42 +0000
Subject: group e-mail

Hi Jeff,

In cc is the e-mail for the environmental department if you need to share anything with the group.

Thanks and have a good day

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

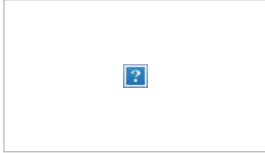
T: 819.759.3555 x6906

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Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com

[<image001.jpg><image002.jpg><image003.jpg><image004.jpg><image005.png>](#)

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-29
Date: April 29, 2018 3:08:29 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

According to caribou migration

Comment

We still have several equipment for the road construction working from k 0 to k 17. Reduce your speed to 5 k per h. when you see people on foot. Thank you.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

Open



We apologize in advance for the inconvenience

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-04-29
Date: April 29, 2018 4:13:11 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

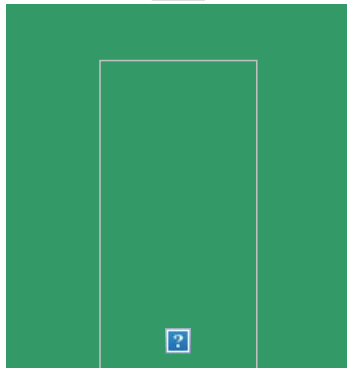
Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

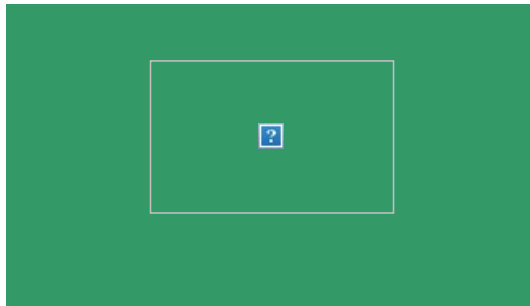
*The road between Baker Lake
and Exploration Camp is:*

Open



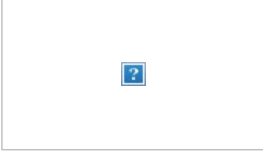
*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-04-30
Date: April 30, 2018 3:44:05 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-04-30
Date: April 30, 2018 3:45:19 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

We will provide an Update

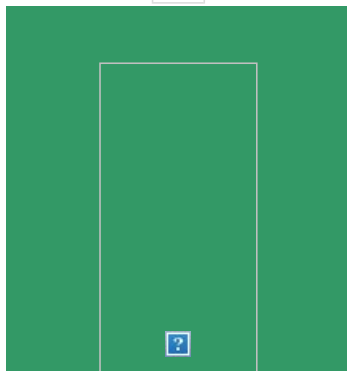
In

Select...

According to caribou migration

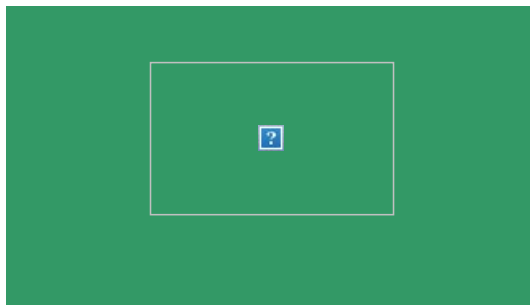
*The road between Baker Lake
and Exploration Camp is:*

Open



*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Donald Dodge](#)
To: [Meadowbank AEM](#); [Mbblast Notice](#)
Subject: VAULT ROAD CLOSURE
Date: April 30, 2018 7:30:14 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning everyone,

The Vault Mining Road is now restricted for ERT.

As per instructions from Environment.

Caribou migration on the Vault Mining Road.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

Inspection, Planning, Decision and Execution in all we do
SUPERVISION FORMULA PHILOSOPHY

HOPE / Helping Other People Evolve
HOPE / Helping Other Projects Evolve

Donald Dodge
Mine Dispatcher

donald.dodge@agnicoeagle.com

T: 819.759.3555 x6949

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
XOC OAO

agnicoeagle.com

From: [Tom Thomson](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Pierre Laberge](#); [Serge Dumont](#); [Amaruq Environment](#)
Subject: Meadowbank AWAR and Amaruq road closed - May 2nd
Date: May 2, 2018 4:28:22 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR has been closed since 6am this morning and will remain closed for the night. The Amaruq road was closed on May 1 from 9pm until 2:00am due to Caribou presence near KM2. The road was re-opened during the day but access was restricted to light vehicle only. The road is now currently closed due to weather conditions. The Vault hauling road remained open all day.

Due to poor visibility this morning a full survey of the AWAR was not completed (KIA monitored up to KM20, AEM ENV monitored MBK to KM52).

We will have crews monitoring the road tomorrow with the assistance of the KIA to determine further steps and a detailed map showing updated locations of caribou presence will be sent out at the end of the day.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

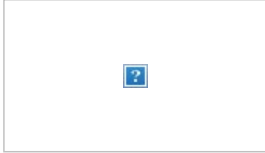
T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 4:02:03 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

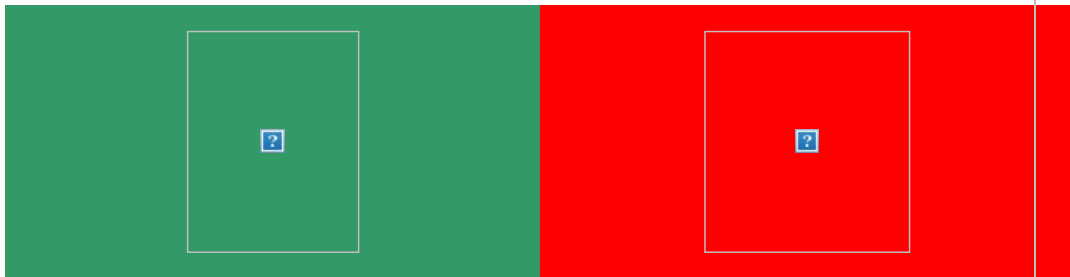
The road is now closed to all traffic because of snow accumulation and visibility issues between KM50 and KM52. Road maintenance equipment will keep working on the road and ERT is allowed to travel on the road if needed.
Thank you

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

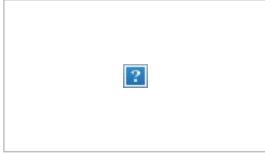
Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 9:58:23 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

We will have to restrict the access to Amaruq Road to light vehicle only due to poor visibility between KM50 to KM54. Please be cautious while traveling through that area.

Thank you

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*

Open

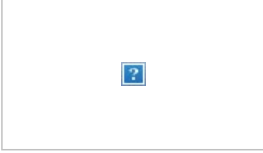
Open With Restriction



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 8:12:20 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Will Leave as Planned

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

Open



**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 7:04:21 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

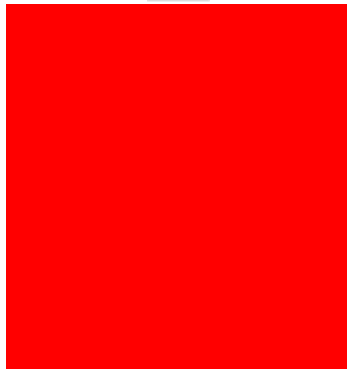
The Daily Ride:

Due to amount of caribou crossing the road, we are not able to do the daily ride today.

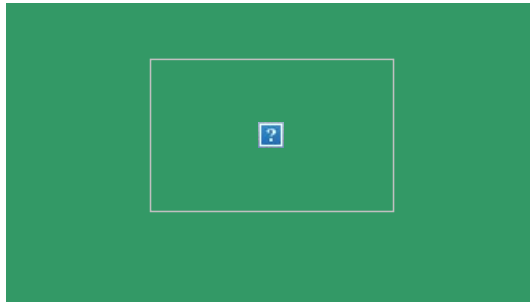
We will provide an Update

According to the caribou migration

*The road between Baker Lake
and Exploration Camp is:*

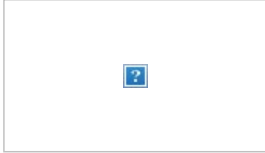


*The road between Exploration
Camp and Meadowbank is:*



We apologize in advance for the inconvenience

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 5:00:03 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

Amaruq Environmental Department will inspect the road and escort the daily ride if needed.

Comment

The road is closed to regular traffic due to Caribou migration at KM16, Environmental Department will go and assess the situation. Construction work is allowed to continue as long as the caribous don't get close to our work areas.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 3:53:45 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

The Daily Ride:

Possibility to do an escort for the daily ride.

We will provide an Update

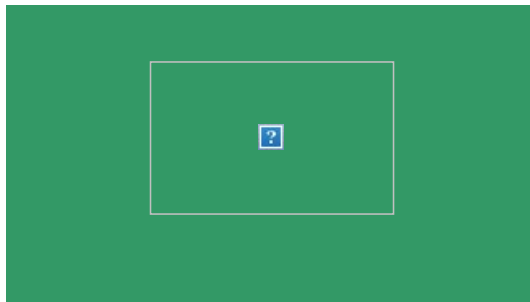
Comment

Due to caribou migration, road is close. Environment team will go monitor the situation this morning.

*The road between Baker Lake
and Exploration Camp is:*



*The road between Exploration
Camp and Meadowbank is:*



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-02
Date: May 2, 2018 4:06:23 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

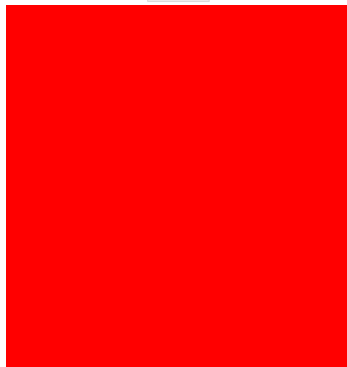
The Daily Ride:

We will provide an Update

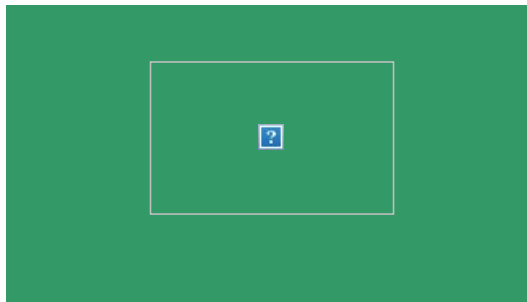
Comment

Road close to all traffic due to caribou migration.

The road between Baker Lake and Exploration Camp is:



The road between Exploration Camp and Meadowbank is:



From: [Tom Thomson](#)
To: [Jeff Hart](#); [Russel Toolooktook](#); [Robert Arsenault](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)" ([lmanzo@kivalliqinuit.ca](#)); [Jeff Tulugak](#); [Hugh Nateela \(bakerlake@kivallighto.ca\)](#)
Cc: [Meadowbank Environment](#); [Amaruq Environment](#); [Nancy Duquet Harvey](#); [Luc Chouinard](#); [Karen Yip](#); [Serge Dumont](#); [Pierre Laberge](#)
Subject: Meadowbank AWAR and Amaruq road closed - May 3
Date: May 3, 2018 3:48:36 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good afternoon,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR has been closed since 6am on May 2 and will remain closed for the night as Caribou are present along the entire length of the AWAR.

The Amaruq road was closed on at 6pm on May 2 until 6am on May 3. The Amaruq road will remain open for the evening and we will have updates from the night shift road crew.

The Vault hauling road remained open all day.

We will have crews monitoring the road again tomorrow with the assistance of the KIA. AEM will continue to monitor the situation and will keep you informed of any change and/or development.

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-03
Date: May 3, 2018 4:33:43 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

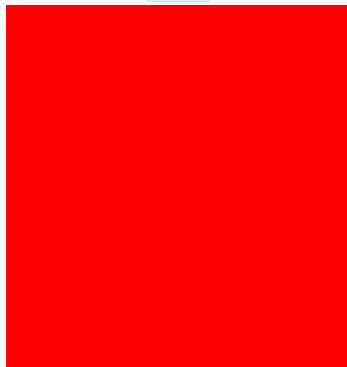
The Daily Ride:

We will provide an Update

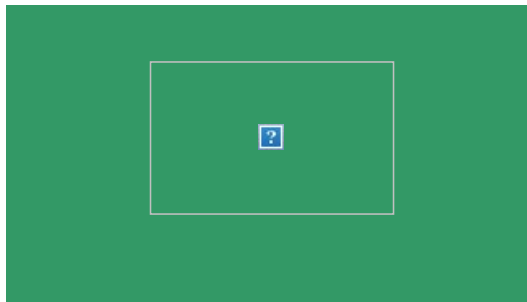
Comment

Environment team will go monitor the caribou on the road this morning.

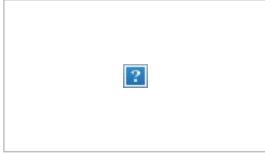
The road between Baker Lake and Exploration Camp is:



The road between Exploration Camp and Meadowbank is:



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-03
Date: May 3, 2018 2:55:28 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Will Leave as Planned

We will provide an Update In *If the Conditions Are Changing*

Please keep in mind that we are still impacted by caribou migration and that the road status could change anyti...

Comment

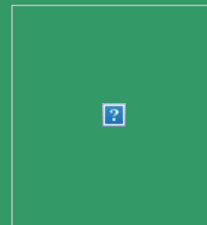
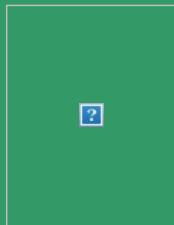
The Amaruq road is now open to regular traffic but we have a lot of snow accumulation in certain areas of the road, please drive to the conditions. Construction work is also ongoing from KM1.5 to KM17, please slow down when traveling through that area. Thank you

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

Open



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-03
Date: May 3, 2018 8:59:40 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

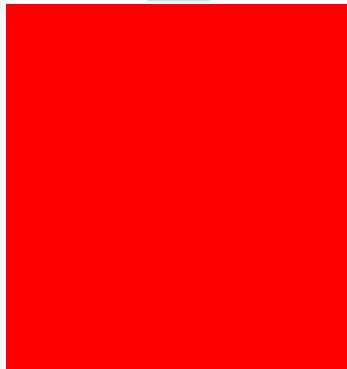
E & I

The Daily Ride:

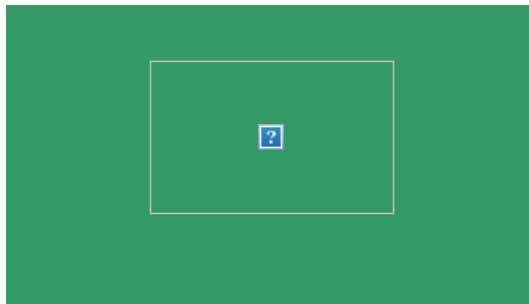
Daily ride just left baker lake, it will be escorted to Meadowbank.

We will provide an Update

*The road between Baker Lake
and Exploration Camp is:*



*The road between Exploration
Camp and Meadowbank is:*



We apologize in advance for the inconvenience

From: [Tom Thomson](#)
To: [Jeff Hart](#); [Jeff Tulugak](#); [Luis Manzo](#); [Robert Arsenault](#); [Russel Toolooktook](#); [Hugh Nateela](#) (bakerlake@kivallight.ca)
Cc: [Meadowbank Environment](#); [Amaruq Environment](#); [Nancy Duquet Harvey](#); [Luc Chouinard](#); [Yan Cote](#); [Pierre Laberge](#); [Serge Dumont](#)
Subject: Meadowbank AWAR and Amaruq Road Update - Caribou Migration May 4
Date: May 4, 2018 9:53:06 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR remains closed to general traffic for the day due to Caribou presence along the AWAR. KIA will escort the daily ride and fuel tankers up to Meadowbank and back to Baker Lake. The Amaruq road is closed from KM20 to Amaruq camp due to caribou presence. Vault transit to KM20 is restricted to light vehicle only for the construction crew as no caribou were observed on that section of the road this morning. The Vault hauling road was closed from 10:30am to 11:15am.

We will have crews monitoring the roads throughout the day with the assistance of the KIA. AEM will continue to monitor the situation and will keep you informed of any change and/or development.

Please don't hesitate to call or email if you have any questions.
Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Tom Thomson](#)
To: [Hugh Nateela](#); [Jeff Hart](#); [Jeff Tulugak](#); [Luis Manzo](#); [Robert Arsenault](#); [Russel Toolooktook](#)
Cc: [Meadowbank Environment](#); [Amaruq Environment](#); [Nancy Duquet Harvey](#); [Luc Chouinard](#); [Yan Cote](#); [Pierre Laberge](#); [Serge Dumont](#)
Subject: Meadowbank AWAR and Amaruq Road Update - Caribou Migration May 4
Date: May 4, 2018 5:14:09 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road for May 4th.

The AWAR will remain closed for the evening of May 4th.

The Amaruq road is closed from KM20 to Amaruq camp due to caribou presence and will remain closed for the evening. Vault transit to KM20 will be restricted to light vehicle only.

The Vault hauling road will remain open but monitoring will continue.

We will have crews monitoring the road again tomorrow with the assistance of the KIA. AEM will continue to monitor the situation and will keep you informed of any change and/or development.

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



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From: [Mathieu Aube](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#); [Amaruq](#); [Amaruq_logistics](#); [Meadowbank Dyno Nobel](#); [Frank](#); [Michael Hachey - Artic Fuel](#); [Cam Hodgins - AFS](#)
Subject: Road Status Update - 2018-05-04
Date: May 4, 2018 8:44:13 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.jpg](#)
[image007.jpg](#)
[image008.jpg](#)
[image009.jpg](#)
[image010.jpg](#)
[image011.jpg](#)
[image012.png](#)



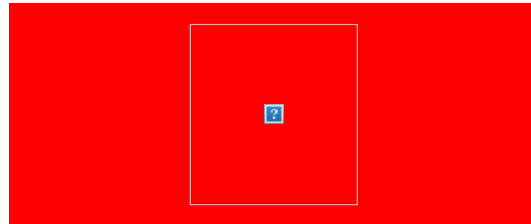
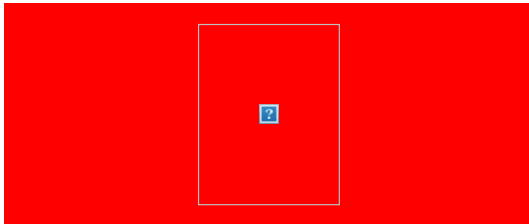
Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.



Comment

The road between Meadowbank and Vault is:

The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

Mathieu Aube
Dispatcher
mathieu.aube@agnicoeagle.com

T: 819.759.3555 x6949

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-04
Date: May 4, 2018 8:08:30 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

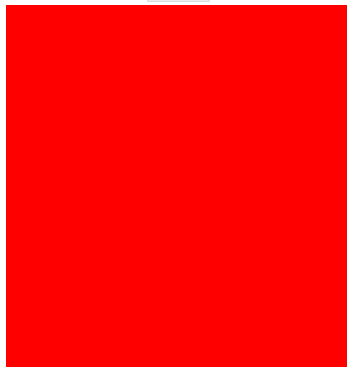
The Daily Ride:

We will provide an Update

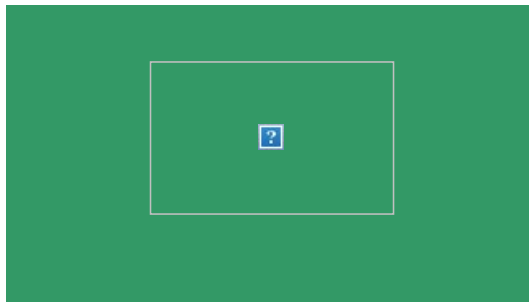
Comment

We are doing an escort for the daily ride, environment are on the road to monitor the caribou.

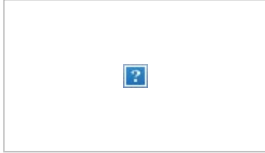
*The road between Baker Lake
and Exploration Camp is:*



*The road between Exploration
Camp and Meadowbank is:*



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-04
Date: May 4, 2018 6:21:22 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

The Amaruq Road is now closed to all traffic but Construction work is allowed to continue between Vault Laydown and KM20. Environment will monitor the situation and update us if there is any changes.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

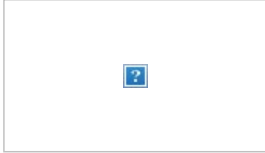
Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-04
Date: May 4, 2018 4:20:10 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

Select...

Comment

The Amaruq road is now restricted to Construction crew and ERT, caribous are close to the road in a few areas. Environmental department will go assess the situation shortly.

Thank you

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*

Open

Open With Restriction



We apologize in advance for the inconvenience

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-04
Date: May 4, 2018 3:53:10 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

The Daily Ride: Will Leave as Planned

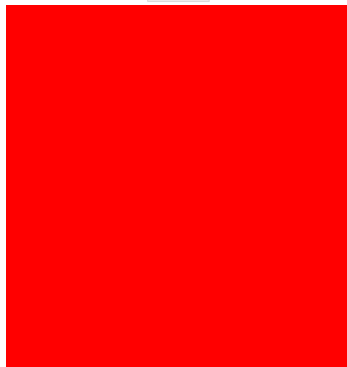
We will provide an Update At 8:00 AM

Comment

Environment will go monitor the caribou on the road this morning.

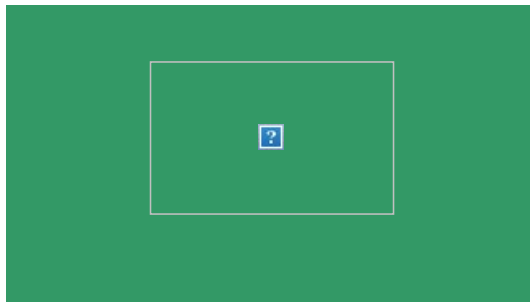
*The road between Baker Lake
and Exploration Camp is:*

Closed



*The road between Exploration
Camp and Meadowbank is:*

Open



From: [Mathieu Aube](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-04
Date: May 4, 2018 9:12:28 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.jpg](#)
[image008.jpg](#)



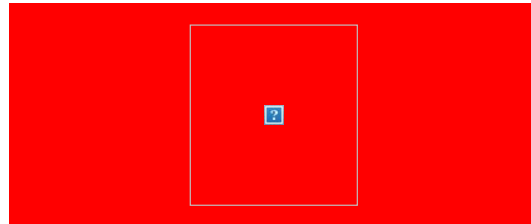
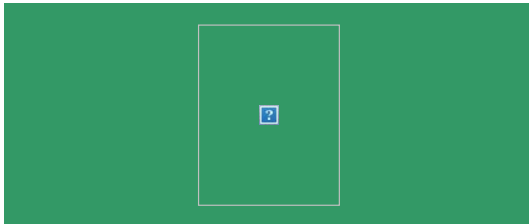
Please be advised of the road status information specified below
***Supervisors, make sure all your crews have been informed.**



Comment

The road between Meadowbank and Vault is:

The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Tom Thomson](#)
To: [Hugh Nateela](#); [Jeff Hart](#); [Jeff Tulugak](#); [Luis Manzo](#); [Robert Arsenault](#); [Russel Toolooktook](#)
Cc: [Meadowbank Environment](#); [Amaruq Environment](#); [Nancy Duquet Harvey](#); [Luc Chouinard](#); [Yan Cote](#); [Pierre Laberge](#); [Serge Dumont](#)
Subject: Meadowbank AWAR and Amaruq Road Update - Caribou Migration May 5
Date: May 5, 2018 7:14:23 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road for May 5th.

The AWAR was opened with restrictions this morning and monitoring will continue.

The Amaruq road was closed from KM20 to Amaruq camp all day. The entire Amaruq road is now closed until further notice.

The Vault hauling road will remain open but monitoring will continue.

We will have crews monitoring the road again tomorrow with the assistance of the KIA. AEM will continue to monitor the situation and will keep you informed of any change and/or development.

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-05
Date: May 5, 2018 3:43:52 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

We will provide an Update

In

Select...

According to caribou migration.

Comment

The environment are still monitoring the caribou on the road.
Road open for Fuel truck and road maintenance only.

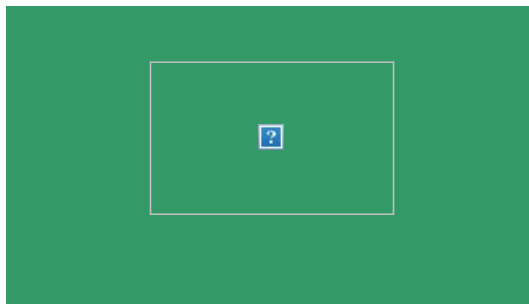
*The road between Baker Lake
and Exploration Camp is:*

Open With Restriction



*The road between Exploration
Camp and Meadowbank is:*

Open



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-05
Date: May 5, 2018 10:47:35 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

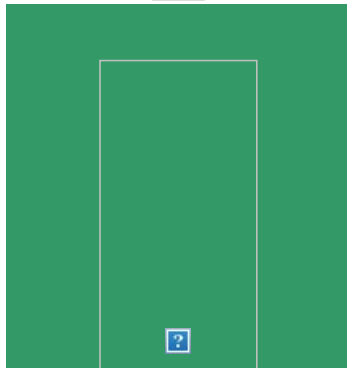
Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

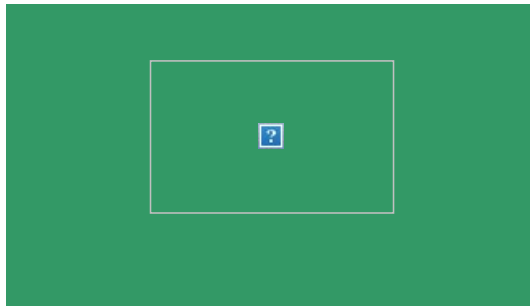
*The road between Baker Lake
and Exploration Camp is:*

Open



*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Tom Thomson](#)
To: [Hugh Nateela](#); [Jeff Hart](#); [Jeff Tulugak](#); [Luis Manzo](#); [Robert Arsenault](#); [Russel Toolooktook](#)
Cc: [Meadowbank Environment](#); [Amaruq Environment](#); [Nancy Duquet Harvey](#); [Luc Chouinard](#); [Yan Cote](#); [Pierre Laberge](#); [Serge Dumont](#)
Subject: Meadowbank AWAR and Amaruq Road Update - Caribou Migration May 6
Date: May 6, 2018 11:45:51 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good afternoon,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road for May 6th.

The AWAR was open with restrictions this morning but was closed at 1:00pm due to blowing snow and poor visibility.

The Amaruq road remains closed until further notice due to caribou presence and blowing snow conditions. We will provide an escort for the daily ride tomorrow and reassess the situation.

The Vault hauling road will remain open but monitoring will continue.

AEM will keep you informed of any change and/or development. We will have crews monitoring the road again tomorrow with the assistance of the KIA

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Tom Thomson](#)
To: [Roch Chabot](#); [Meadowbank Environment](#)
Cc: [Mathieu Aube](#); serge.lalancette@groupegilbert.com; [Jeremy Kancir](#); [Pat Camarotto](#); [Serge Dumont](#)
Subject: RE: AMQ Road
Date: May 6, 2018 7:22:40 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning,

I just spoke with my team and KIA regarding the status of AMQ road. There is still a number of Caribou close to the AMQ road at a number of spots and unfortunately visibility is getting poor.

FGL construction crew will be able to continue work at KM1 but we will close the road north to AMQ camp until further notice. We will do another assessment later this morning if visibility improves.

I will do my best to keep you updated as the day goes on.

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: Roch Chabot
Sent: Sunday, May 06, 2018 4:13 AM
To: Meadowbank Environment
Cc: Mathieu Aube; serge.lalancette@groupegilbert.com; Jeremy Kancir; Pat Camarotto
Subject: RE: AMQ Road

Good morning,

Please let me know as soon as possible if I can start the rockfill work at KM1 this morning or not. If we don't see any animals around that area, we'll start at 6h00am this morning. We will stop the culvert and snow removal work from KM4 to KM10 and the work at KM17. We'll stop any work from KM1 to KM4 if caribous are within the area.

I'm presenting a LDP session all day today, if you need anything, the following persons will be in charge of the different aspects of the road.

1-Construction work: Serge Lalancette or Claude Tremblay from Sana

2-Road Status: Mathieu Aube (Mine Dispatcher)

3-Convoy: Mathieu Aube (Mine Dispatcher) for email communication, Jeremy Kancir (Auxiliary Supervisor) for resources.

4-Emergency: Mathieu Aube (Mine Dispatch) will be able to reach me.

Thank you

From: Tom Thomson
Sent: 5 mai 2018 21:22
To: Roch Chabot
Subject: AMQ Road

We made it back...

We will have to keep the entire road closed until we reassess tomorrow morning. We had some pretty good numbers very close to the road starting at KM5, 10, 16, 30, 35, 43, and 60.

I will send Nicolas from AMQ and Jeff (KIA) and Fanny will leave from MBK about 7. Will keep you posted as soon as I can.

Have a good night.

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-06
Date: May 6, 2018 11:09:15 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

E & I

We will provide an Update

In

If the Conditions Are Changing

Comment

Drifting snow visibility near zero at time.

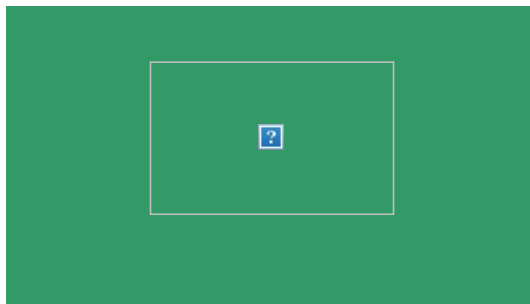
The road between Baker Lake and Exploration Camp is:

Closed



The road between Exploration Camp and Meadowbank is:

Open



From: [Tom Thomson](#)
To: [Hugh Nateela](#); [Jeff Hart](#); [Jeff Tulugak](#); [Luis Manzo](#); [Robert Arsenault](#); [Russel Toolooktook](#)
Cc: [Meadowbank Environment](#); [Amaruq Environment](#); [Nancy Duquet Harvey](#); [Luc Chouinard](#); [Pierre Laberge](#); [Serge Dumont](#)
Subject: Meadowbank AWAR and Amaruq Road Update - Caribou Migration May 7
Date: May 7, 2018 12:18:27 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good afternoon,

Below are the details of caribou presence along Meadowbank's AWAR and along the Amaruq road for May 7th.

The AWAR and Amaruq road are closed due to weather conditions and will not open before tomorrow morning.

The Amaruq road was opened this morning to complete an escort for the daily ride with assistance from the KIA. Caribou are still present and we will continue to monitor when it is safe to do so. Vault road remains open but the status may change according to weather conditions.

AEM will keep you informed of any change and/or development.

Please don't hesitate to call or email if you have any questions.

Regards,

Tom Thomson
Senior Environmental Technician

tom.thomson@agnicoeagle.com

T: 819.759.3555 ext. 6906

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

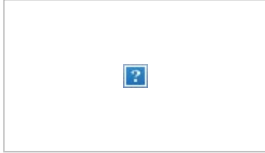
agnicoeagle.com



agnicoeagle.com



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-07
Date: May 7, 2018 12:13:34 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

Vault road is now open to light vehicle traffic. The Amaruq road remains closed to all traffic including ERT due to very poor visibility.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

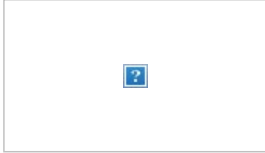
Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-07
Date: May 7, 2018 11:55:27 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Is Cancelled

We will try again in the morning tomorrow.

Comment

The Amaruq road is closed to all traffic including ERT until we see a significant improvement in the weather.

*The road between Meadowbank
and Vault is:*

Closed

*The road between Vault
and Amaruq is:*

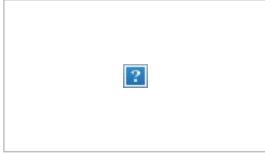
Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-07
Date: May 7, 2018 10:48:24 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: **Is Delayed**

The daily ride is stand-by in Meadowbank.

We will provide an Update **In** 2 Hours

We will go and re-assess the situation in 2 hours.

Comment

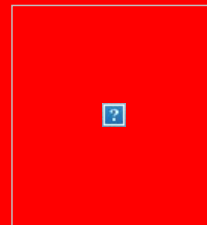
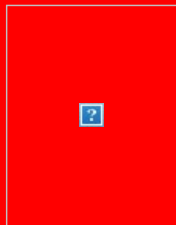
The Amaruq road is closed to all traffic including ERT.

*The road between Meadowbank
and Vault is:*

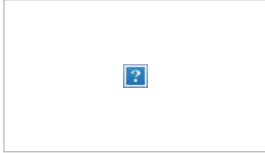
Closed

*The road between Vault
and Amaruq is:*

Closed



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-07
Date: May 7, 2018 4:15:28 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

We will escort the daily ride from Amaruq to Meadowbank and back to Amaruq this afternoon. With environment permission, we will also send fuel and explosives to Amaruq during the convoy this morning.

Comment

The Amaruq Road remains closed to all traffic this morning due to caribou migrations and weather issues. ERT can still be escorted if needed and construction from Vault to KM1.5 is allowed. Environment is monitoring the situation and will update us shortly.

Thank you

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-07
Date: May 7, 2018 3:39:25 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

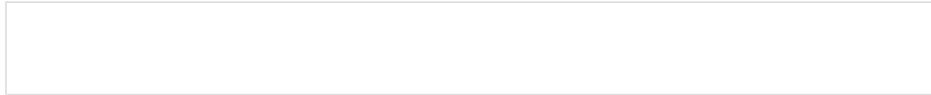
**Supervisors, make sure all your crews have been informed.*

E & I

We will provide an Update

In

If the Conditions Are Changing

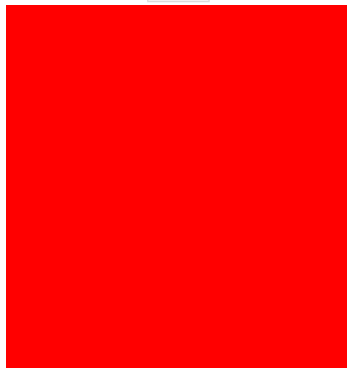


Comment

Drifting snow on the road,

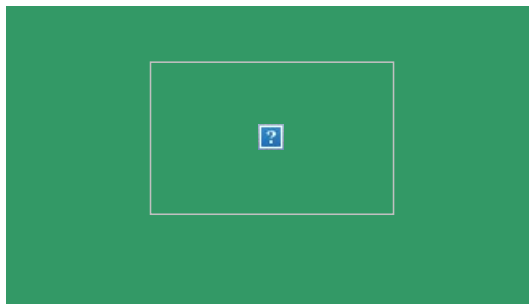
*The road between Baker Lake
and Exploration Camp is:*

Closed



*The road between Exploration
Camp and Meadowbank is:*

Open



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-07
Date: May 7, 2018 7:25:46 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

The Amaruq Road will remain closed all night to regular traffic. Road maintenance work will be allowed as well as Construction work.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-08
Date: May 8, 2018 6:07:38 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

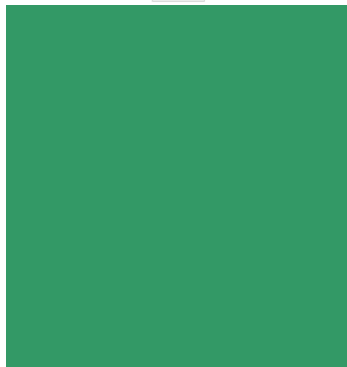
E & I

The Daily Ride:

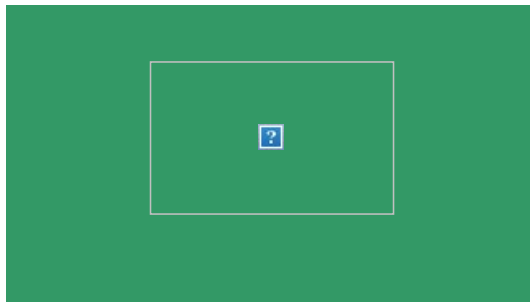
We will provide an Update

Comment

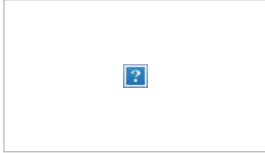
*The road between Baker Lake
and Exploration Camp is:*



*The road between Exploration
Camp and Meadowbank is:*



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-08
Date: May 8, 2018 5:34:16 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

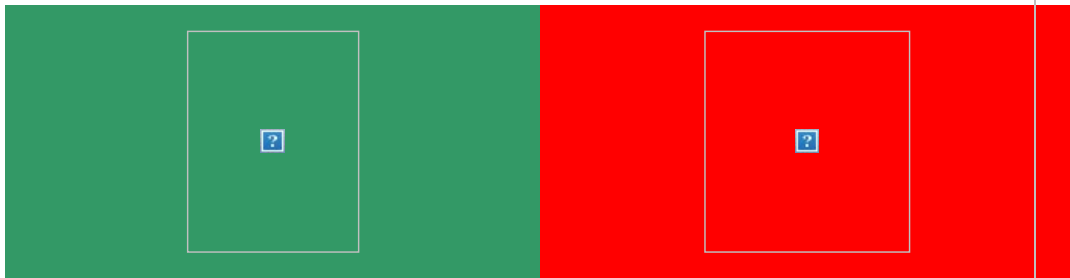
The daily rides left Meadowbank and Amaruq on time, but the broken down loader at KM54 could be in the way. We will let daily ride driver know what to do if the plan changes.

Comment

We are currently trying to open-up the road but we are dealing with a lot of snow between KM50 and KM60. We also have a disabled loader at KM54 that could be in the way.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-08
Date: May 8, 2018 5:17:10 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

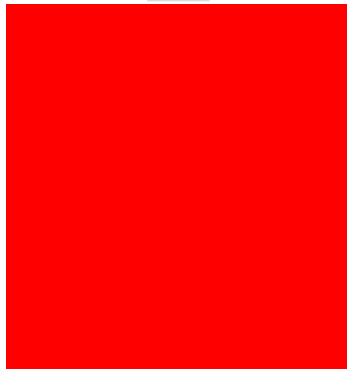
***Supervisors, make sure all your crews have been informed.**

E & I

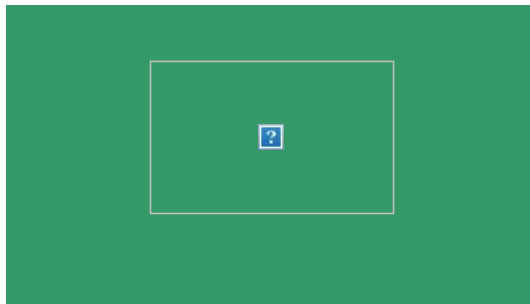
The Daily Ride:

We will provide an Update

The road between Baker Lake and Exploration Camp is:

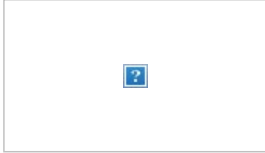


The road between Exploration Camp and Meadowbank is:



We apologize in advance for the inconvenience

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-08
Date: May 8, 2018 6:29:08 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

We open an access through the snow for the daily ride but the Amaruq Road remains closed to all traffic between KM17 and Amaruq because of caribou migration and snow accumulation. ERT is allowed to travel on the road if needed. Environmental Department will update us on the caribou migration when the situation changes.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

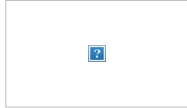
Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: Mathieu Aubin
To: Meadowbank AEM; Meadowbank Dymo Nobel; Meadowbank Contractors; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road Status Update May 9 2018
Date: May 9, 2018 4:29:12 AM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.jpg
image010.jpg



Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.

The Daily Ride:



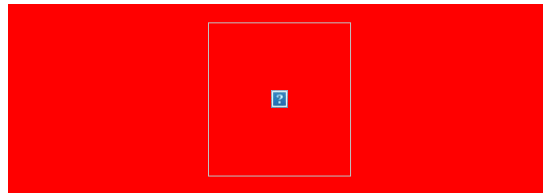
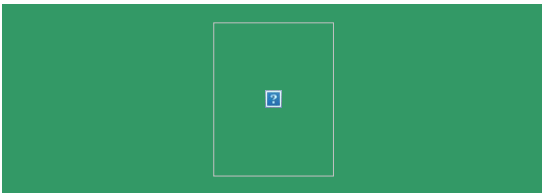
Comment



The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: Mathieu Aubin
To: Meadowbank AEM; Meadowbank Dymo Nobel; Meadowbank Contractors; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road status Update May 9
Date: May 9, 2018 2:26:48 PM
Attachments: image002.jpg
image003.png
image004.png
image005.png
image006.png
image007.png
image009.jpg
image011.jpg

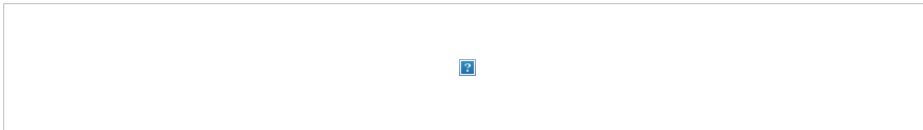


Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.

Due to the caribou migration on the Amaruq road and respecting wildlife, our number priority see below for the traffic plan for the Amaruq road



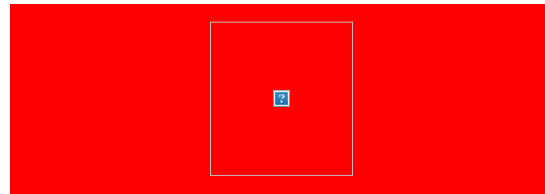
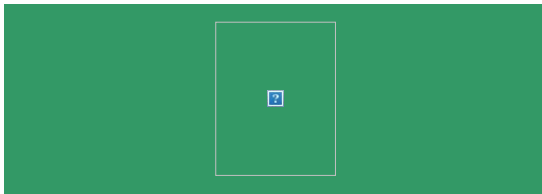
Comment



The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arseneault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yin](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Marc-Andre Beaudet](#); [Marie-Josée Barville](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 10th
Date: May 10, 2018 7:35:19 PM
Attachments: [image018.jpg](#)
[image019.jpg](#)
[image020.jpg](#)
[image021.jpg](#)
[image022.png](#)
[image002.jpg](#)

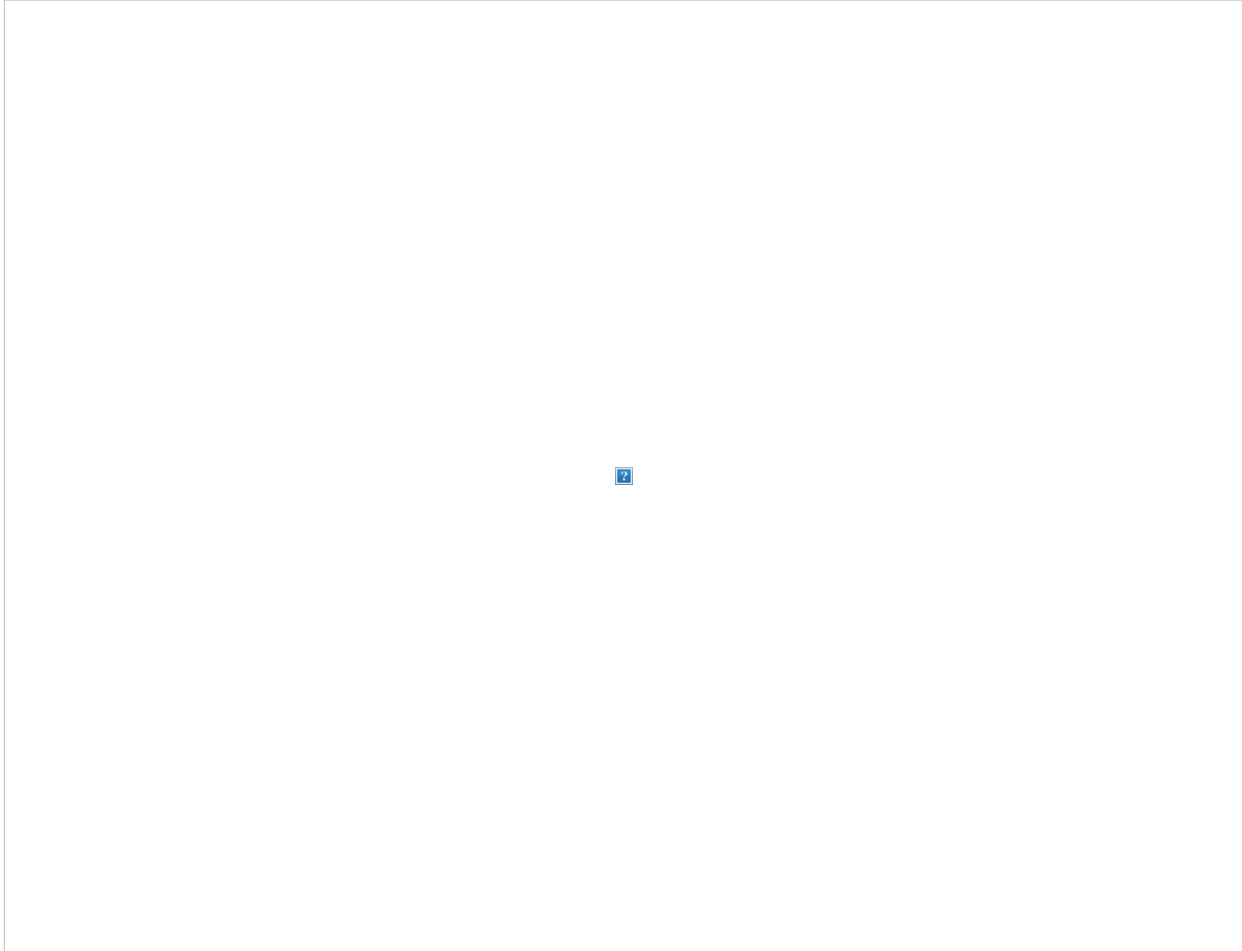
Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amraruq road.

The AWAR remained open all day until 18h00. Due to Muskox presence along km 95, the AWAR was closed for all night traffic. The Amraruq road has remained closed all day, except for authorized convoy. The Vault hauling road remained open all day.

We will have crews monitoring the road tomorrow with the assistance of the KIA to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.



If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



From: Mathieu Aubin
To: Meadowbank AEM; Meadowbank Dymo Nobel; Meadowbank Contractors; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road Status May 10
Date: May 10, 2018 5:37:38 AM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.png
image006.png
image007.jpg
image008.jpg

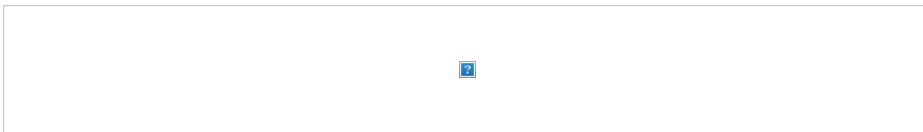


Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.

Due to the caribou migration on the Amaruq road and respecting wildlife, our number priority see below for the traffic plan for the Amaruq road



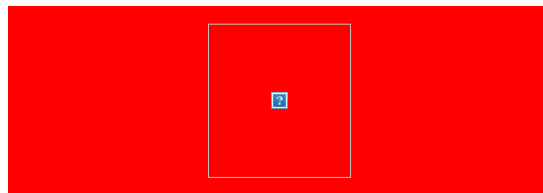
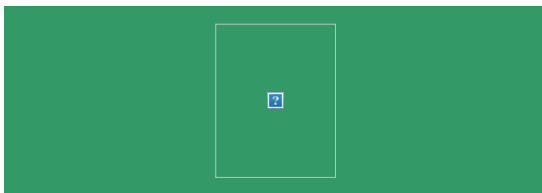
Comment



The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-10
Date: May 10, 2018 4:49:13 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

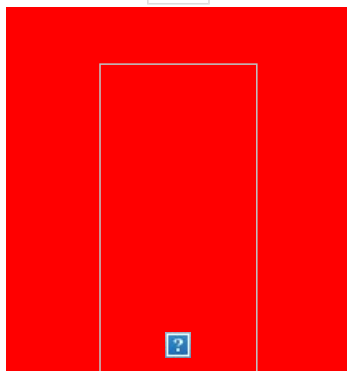
E & I

Comment

The Road is Close between Exploration camp and Baker Lake because Muskox close to the road at km 95, We will have an update tomorrow morning.

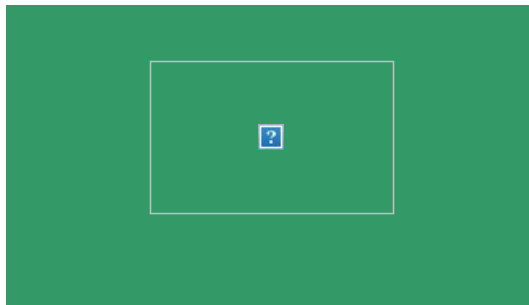
The road between Baker Lake and Exploration Camp is:

Closed



The road between Exploration Camp and Meadowbank is:

Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Marc-Andre Beaudet](#); [Marie-Josée Banville](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 11th
Date: May 11, 2018 6:05:10 PM
Attachments: [image001.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amraruq road.

The AWAR remained open all day.

The Amraruq road remained closed all day because road conditions did not permit a full survey.

The Vault hauling road remained open all day.

We will have crews monitoring the road tomorrow with the assistance of the KIA to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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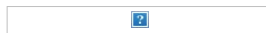


From: Mathieu Aubin
To: Meadowbank AEM; Meadowbank Dyno Nobel; Meadowbank Contractors; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road status May 11 2018
Date: May 11, 2018 5:01:04 AM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.png
image006.jpg
image007.jpg



Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.

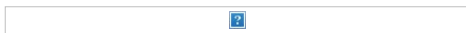
Due to the caribou migration on the Amaruq road and respecting wildlife, our number one priority see below for the traffic plan for today



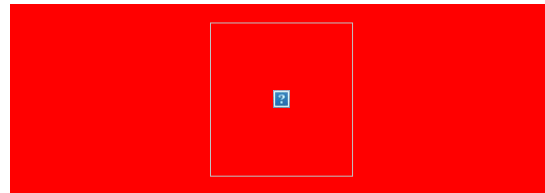
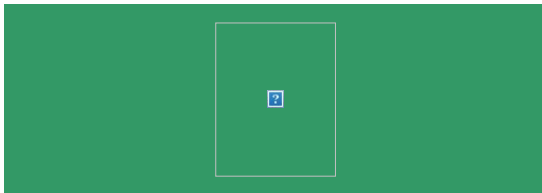
Comment

The Amaruq road remains closed from Km 17 to Amaruq
Environment will provide an escort at 10:00 AM to go to Amaruq and then return from Amaruq
If there is any change in the plan another email will be sent out

The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-11
Date: May 11, 2018 6:21:33 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

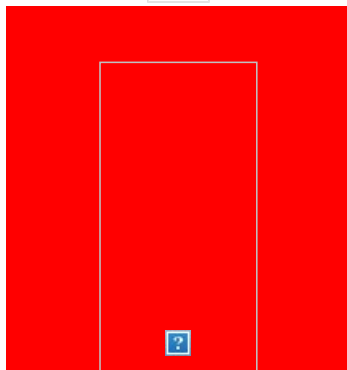
***Supervisors, make sure all your crews have been informed.**

E & I

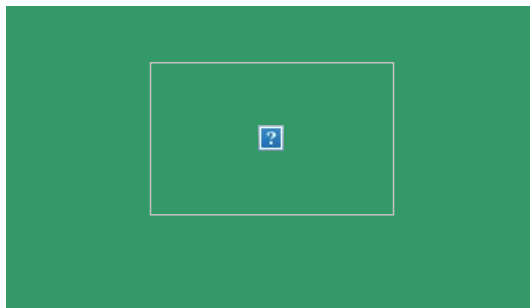
The Daily Ride:

The daily ride will leave as planned and the tankers will wait for Environment ok, we will send a new update soon.

*The road between Baker Lake
and Exploration Camp is:*



*The road between Exploration
Camp and Meadowbank is:*



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-11
Date: May 11, 2018 7:02:42 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

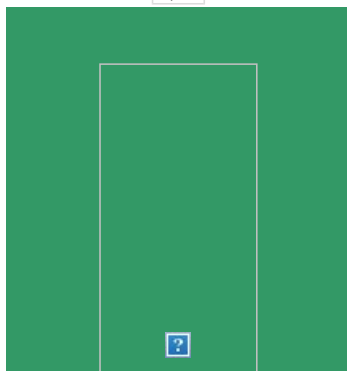
E & I

Comment

The Road is Open for all traffics.

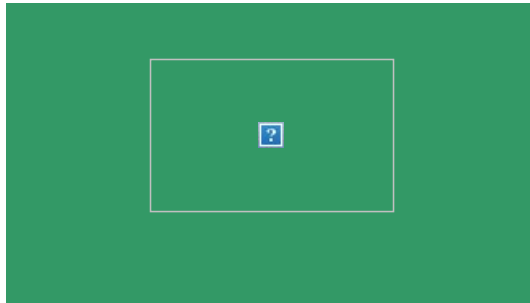
*The road between Baker Lake
and Exploration Camp is:*

Open



*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqiuil.ca\)](#)"; [Hugh Natesela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Ye](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Marc-Andre Beaudet](#); [Marie-Josée Barville](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 12th
Date: May 12, 2018 6:18:36 PM
Attachments: [image002.png](#)
[image007.tso](#)
[image008.tso](#)
[image009.tso](#)
[image010.tso](#)
[image011.png](#)

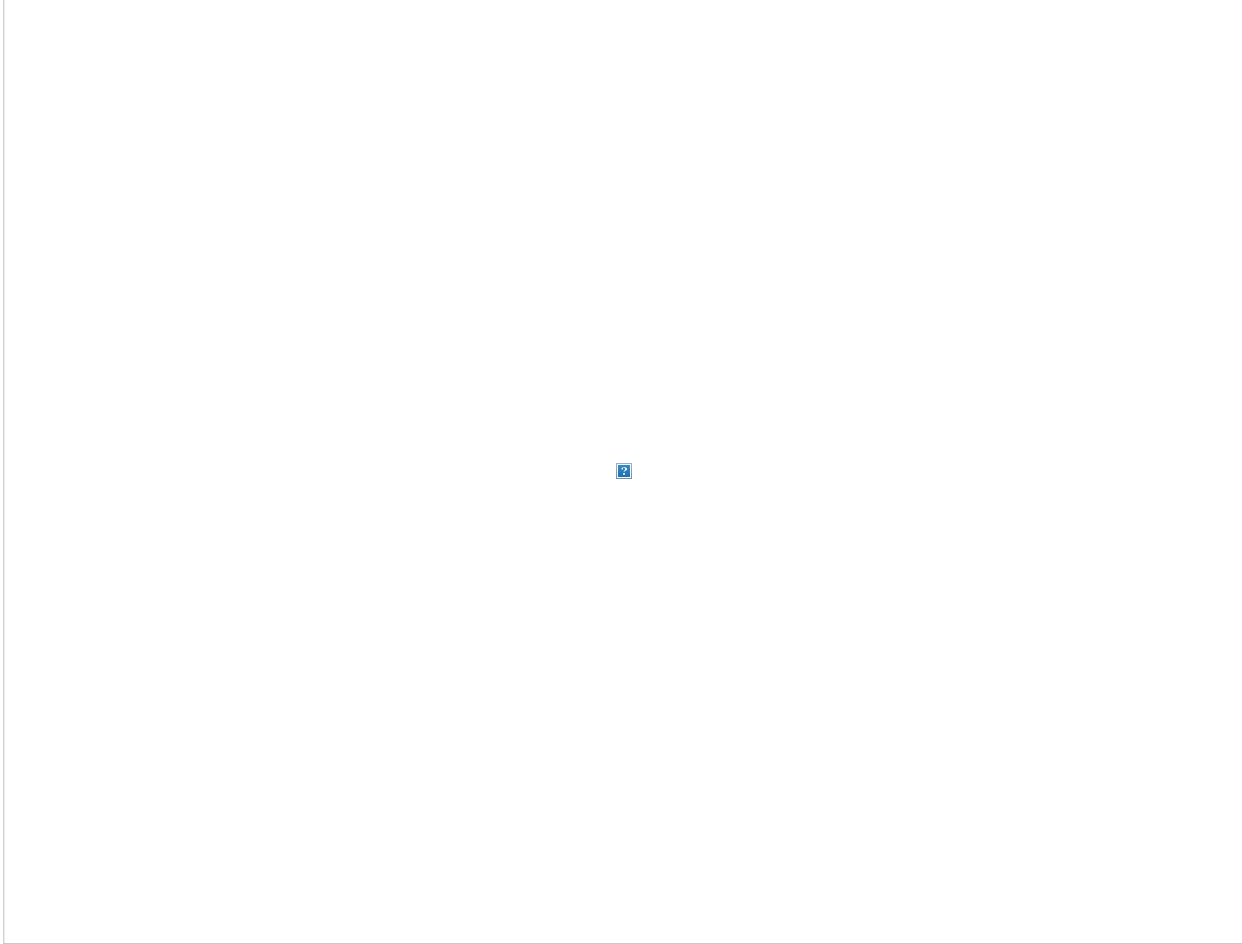
Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amraruq road.

The AWAR remained open all day, caribou were observed between km 95 and 100 but were scattered and away from the road.
The Amraruq road remained closed all day except for a convoy lead by Environment. Caribou were closer to the road between km 20-30 and km 58, being scattered.
The Vault hauling road remained open all day.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.



If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Guillaume Blanchette](#); [Marc-Andre Beaudet](#); [Marie-Josée Banville](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 13th
Date: May 13, 2018 7:29:33 PM
Attachments: [image001.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR remained open all day, caribou were observed between km 95 and 100 close to road at the end of the day. Therefore the road was closed for the night.

The Amaruq road was restricted access all day except for a convoy lead by Environment.

Caribou were closer to the road at km 60-62.

The Vault hauling road remained open all day.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

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Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-13
Date: May 13, 2018 4:27:48 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

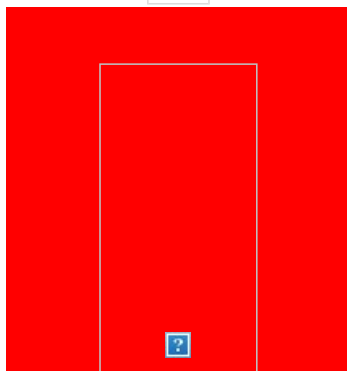
E & I

Comment

The Road is Close between Exploration camp and Baker Lake because caribou migration at km 95 and the road still open between Meadowbank and Exploration camp.

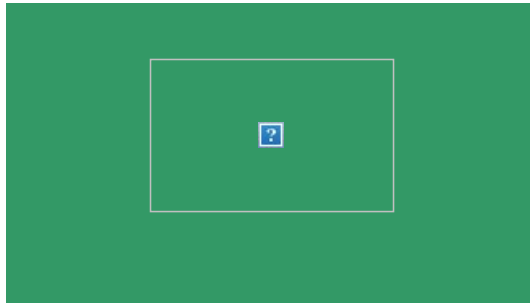
*The road between Baker Lake
and Exploration Camp is:*

Closed



*The road between Exploration
Camp and Meadowbank is:*

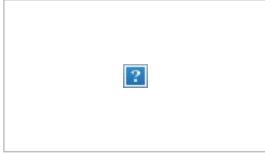
Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Darcey Mercier](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-13
Date: May 13, 2018 9:19:51 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

Vault Road is now closed due to presence of wildlife close to the road.

We will provide an update when we have approval to re-open the road

*The road between Meadowbank
and Vault is:*

Closed

*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Marc-Andre Beaudet](#); [Marie-Josée Banville](#); [Nicolas Plouffe-Deschamps](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 14th
Date: May 14, 2018 7:22:50 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR was reopened in the morning, but was closed again at lunch time because of weather conditions. Thus a limited survey was completed.

The Amaruq road was open up to km 55 but under restricted access for the remainder of the road as Caribou were closer to the road at km 60-62.

The Vault hauling road was closed for all traffic at 23:20 on the 13th because of caribou presence in the area, it was reopened at 01:50 on the 14th. It remained open during the day.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Pascal Gregoire](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-14
Date: May 14, 2018 3:31:42 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

E & I

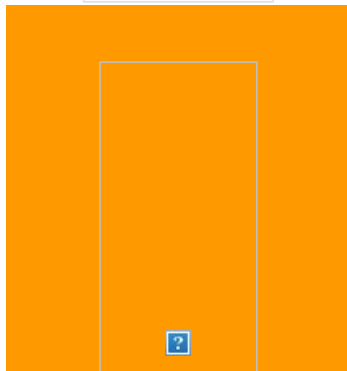
Comment

Hi wind and snow drift around KM80

Garder will escort crusher team and 2 Artic fuel tanker to pass that critical area

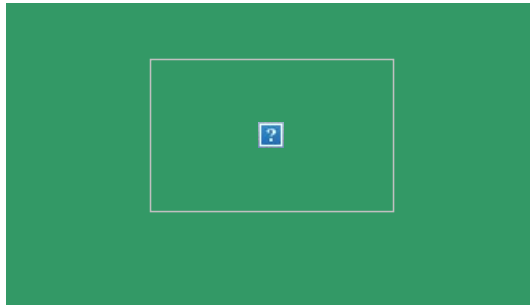
*The road between Baker Lake
and Exploration Camp is:*

Open With Restriction



*The road between Exploration
Camp and Meadowbank is:*

Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Pascal Gregoire](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-14
Date: May 14, 2018 1:17:21 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

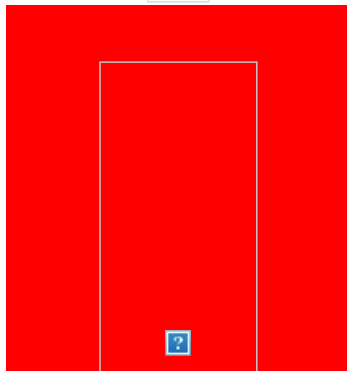
E & I

Comment

Hi wind and snow drift

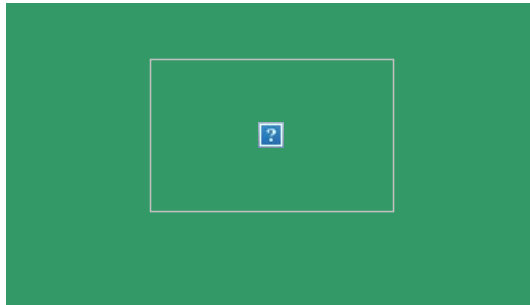
*The road between Baker Lake
and Exploration Camp is:*

Closed



*The road between Exploration
Camp and Meadowbank is:*

Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-14
Date: May 14, 2018 7:28:39 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

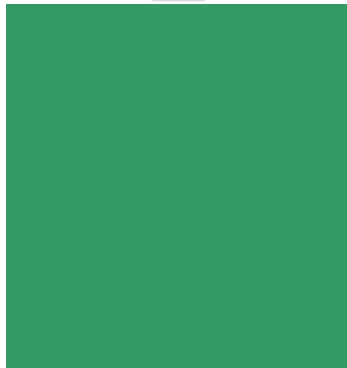
***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

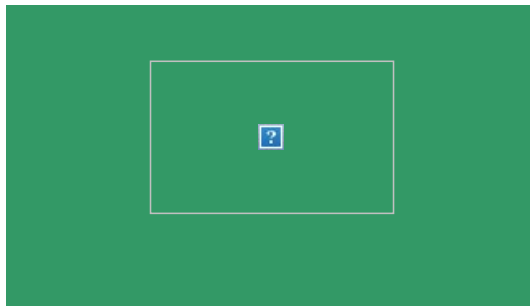
Comment

The Road is Open for all traffics.

*The road between Baker Lake
and Exploration Camp is:*

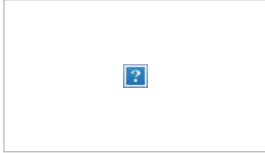


*The road between Exploration
Camp and Meadowbank is:*



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Darcey Mercier](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-14
Date: May 13, 2018 11:52:36 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

The Vault road is now re-opened, but Road Status for Amaruq road remains the same(closed) until we get an update in the morning.

-The Amaruq is open from Vault to KM 55

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

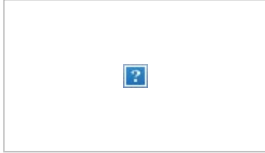
Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Darcey Mercier](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-14
Date: May 14, 2018 5:39:32 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

Vault Road is now Closed due to presence of Wild life.

Amaruq road is still closed due to road conditions.

*The road between Meadowbank
and Vault is:*

Closed

*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: Mathieu Aubin
To: Meadowbank AEM; Meadowbank Dymo Nobel; Meadowbank Contractors; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road Status update May 14
Date: May 14, 2018 4:04:47 PM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.jpg
image006.jpg



Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.

Due to the caribou migration on the Amaruq road and respecting wildlife, our number one priority see below the traffic plan for today

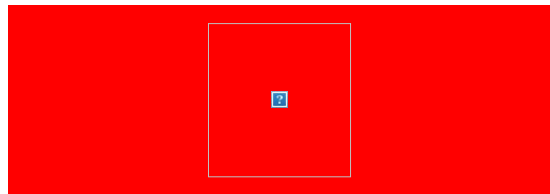
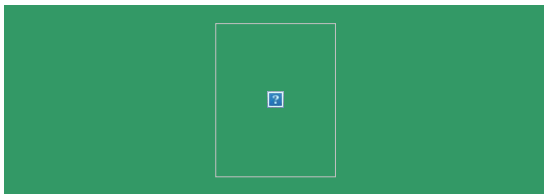
-The Amaruq road is Closed from Km 25 to Amaruq Lots of snow drifts on the road

-if you have any questions do not hesitate to communicate with the Road Supervisor : By Radio on Amaruq Road CH or telephone EXT:6976

The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Marc-Andre Beaudet](#); [Marie-Josée Banville](#); [Nicolas Plouffe-Deschamps](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 15th
Date: May 15, 2018 7:04:35 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR was open all day.

The Amaruq road was under restricted access as Caribou were closer to the road at km 17-18.

The Vault hauling road was closed for all traffic at 19:40 on the 14th because of caribou presence in the area, it was reopened at 9:25 on the 15th. It remained open during the rest of the day.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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agnicoeagle.com



From: [Pascal Gregoire](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-15
Date: May 15, 2018 2:59:07 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

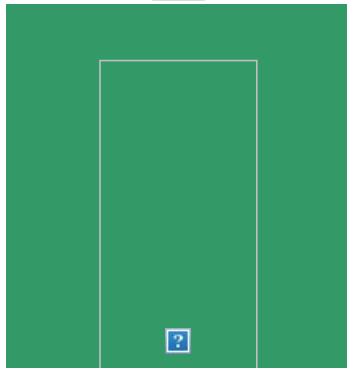
Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

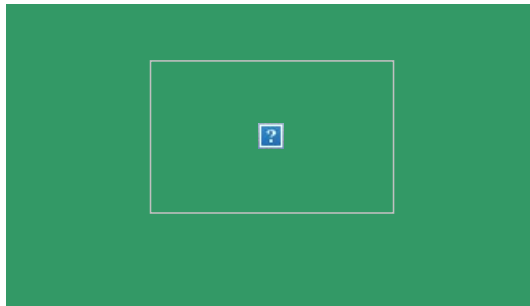
*The road between Baker Lake
and Exploration Camp is:*

Open



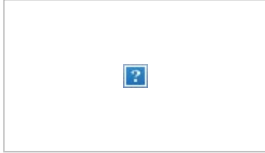
*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Darcey Mercier](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-15
Date: May 15, 2018 3:31:48 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

Comment

Vault Road is Still Closed due to Wildlife presence.(Environment will evaluate the situation this morning)

Amaruq road is also closed until further notice

A follow up email will be sent out as soon as we can evaluate the road conditions this morning.

Thanks again for your usual cooperation

*The road between Meadowbank
and Vault is:*

Closed

*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: Mathieu Aubin
To: Meadowbank AEM; Meadowbank Contractors; Meadowbank Dymo Nobel; Amaruq; Cam Hodgins - AFS; Michael Hachey - Artic Fuel; Frank; Amaruq
Subject: Road Status Update May 15 2018 Vault Road Open
Date: May 15, 2018 7:24:45 AM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.jpg
image006.jpg



Please be advised of the road status information specified below
***Supervisors, make sure all your crews have been informed.**

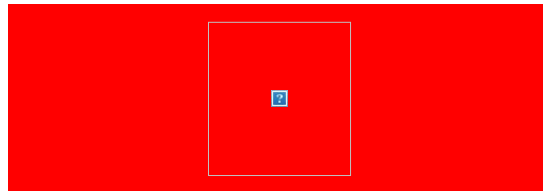
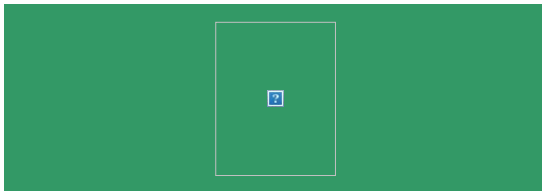
Due to the caribou migration on the Amaruq road and respecting wildlife, our number one priority see below the traffic plan for today

- Vault road is now OPEN
- The Amaruq road remains closed
- Environment will provide an escort at 9:30 AM from Vault to Amaruq and then return from Amaruq to Vault
- If there is any changes in the plan another email will be sent out
- If you have any questions do not hesitate to communicate with the Road Supervisor : Mathieu Aubin By Radio on Amaruq Road CH or telephone EXT:6976

The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Jacques Fortier](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: AMARUQ ROAD CLOSED
Date: May 16, 2018 11:13:37 AM

The Amaruq Road is now closed to all traffic... we have a transport off road at KM 20.5 and he's blocking the way.

An update will be issued when they manage to clear the road.

For any further details feel free to contact Dispatch at extension 6949

Thank you for your patience and cooperation.

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Nancy Duquet Harvey](#); [Karen Yip](#); [Luc Chouinard](#); [Marc-Andre Beaudet](#); [Marie-Josée Banville](#); [Nicolas Plouffe-Deschamps](#); [Christian Bourcier](#)
Subject: Meadowbank AWAR and Amraruq road - Update May 16th
Date: May 16, 2018 8:20:23 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR was closed in the afternoon because of weather conditions and visibility did not permit a full survey to be completed.

The Amaruq road was under restricted access because wind conditions created low visibility and Caribou presence along the road.

The Vault hauling road was restricted during night shift of 15th to 16th, no Haul truck traffic was permitted with caribou observed in the area. It was fully reopened at 8:00 on the 16th. It remained open during the rest of the day.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

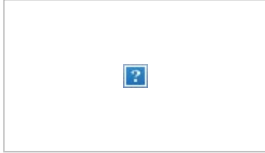
agnicoeagle.com



agnicoeagle.com



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-16
Date: May 16, 2018 4:07:27 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

We will provide an Update

According to caribou migration

Comment

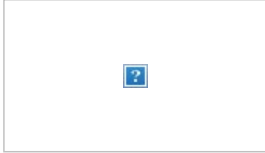
The road remains closed because of caribou. Convoy departure at 8h. Should have very poor visibility today.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-17
Date: May 17, 2018 1:47:13 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

The last daily ride of the week is being escorted actually.

We will provide an Update

According to caribou migration and road condition.

Comment

Be aware the Amaruq Road will be closed to all traffic from now on till Monday morning. No escort, no convoy, no ERT, no activity at all. Environment Department will monitor caribou migration and will provide an update if the conditions are changing. Have yourself a nice week end and work safely.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-17
Date: May 17, 2018 4:24:25 PM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

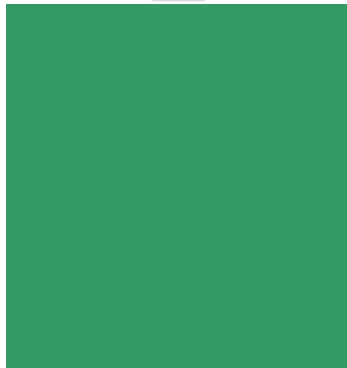
***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

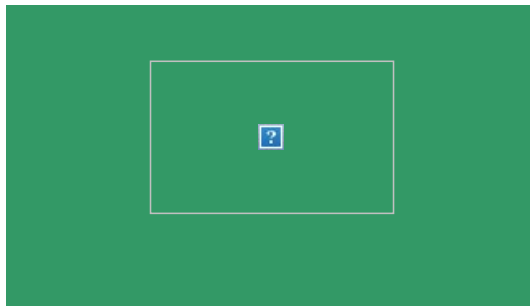
Comment

The Road is open for all traffics.

*The road between Baker Lake
and Exploration Camp is:*

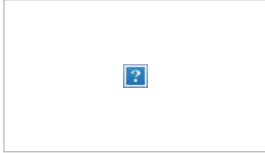


*The road between Exploration
Camp and Meadowbank is:*



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-17
Date: May 17, 2018 11:24:06 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

Daily Ride departure at Front Desk 2h00 PM

We will provide an Update

Comment

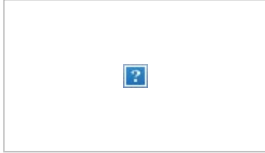
Both convoy will leave at 2h00 PM from Meadow and Amaruq.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-17
Date: May 17, 2018 4:01:18 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Will Leave as Planned

Convoy departure at 8h00 AM from Vault transit pad.

We will provide an Update In If the Conditions Are Changing

According to caribou migration and road condition

Comment

The road remains closed. Access is permitted only for ERT, road maintenance and convoy with environment.

*The road between Meadowbank
and Vault is:*

Open

*The road between Vault
and Amaruq is:*

Closed



From: [Donald Dodge](#)
To: [Mblast Notice](#); [Meadowbank AEM](#); [Aakanksha Sharma](#)
Subject: CARIBOU MIGRATION VAULT ROAD CLOSED
Date: May 18, 2018 4:46:33 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening everyone,

The Vault Mining Road is now closed and restricted for ERT.

As per the Caribou Migration Procedure from Environment.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

Inspection, Planning, Decision and Execution in all we do
SUPERVISION FORMULA PHILOSOPHY

HOPE / Helping Other People Evolve
HOPE / Helping Other Projects Evolve

Donald Dodge
Mine Dispatcher

donald.dodge@agnicoeagle.com

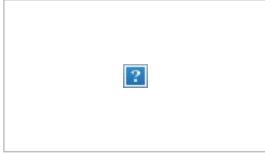
T: 819.759.3555 x6949

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
XOC OAO

agnicoeagle.com



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-18
Date: May 18, 2018 5:35:11 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

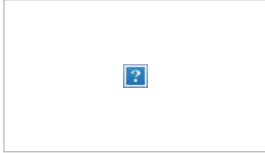
Be aware the Amaruq Road will be closed to all traffic until Monday morning. No escort, no convoy, no ERT, no activity at all. Environment Department will monitor caribou migration and will provide an update if the conditions are changing. Have yourself a nice week end and work safely.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-19
Date: May 19, 2018 8:16:25 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

Vault and Amaruq Road are closed due to caribou migration.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-19
Date: May 19, 2018 6:12:19 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

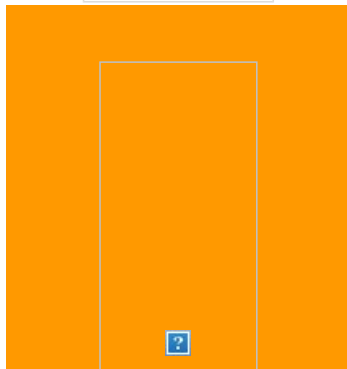
E & I

Comment

The Road is Open between Exploration Camp and Baker Lake for light vehicle only.

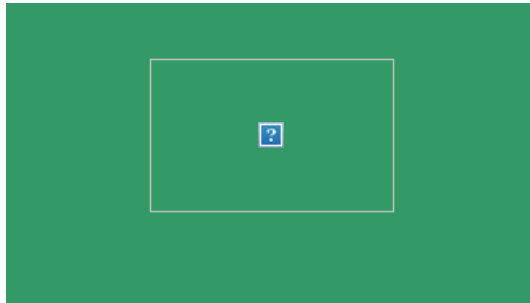
*The road between Baker Lake
and Exploration Camp is:*

Open With Restriction



*The road between Exploration
Camp and Meadowbank is:*

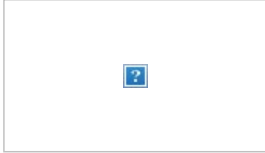
Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-20
Date: May 20, 2018 2:02:20 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

The road remains closed. It is actually blocked with snow from k 38 to k 62. Loaders are progressing slowly due to snow accumulation. We cannot support ERT for any convoy. We'll continue during the night shift and keep you posted tomorrow morning for the Daily Ride.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Laurier Godin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-20
Date: May 20, 2018 3:09:36 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

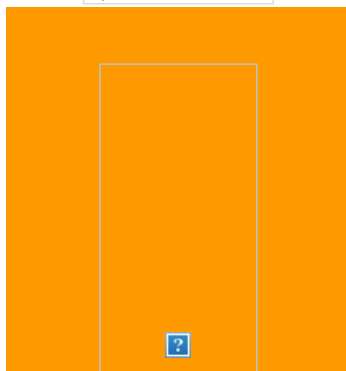
E & I

Comment

The Road is open for light vehicle between Exploration Camp and Baker Lake,
The road crew is working to open it for tankers soon.

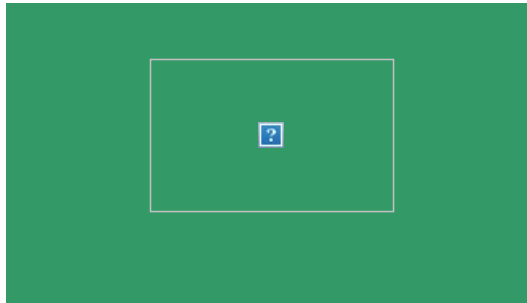
*The road between Baker Lake
and Exploration Camp is:*

Open With Restriction



*The road between Exploration
Camp and Meadowbank is:*

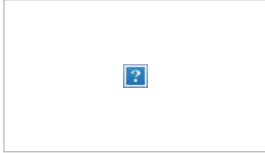
Open



We apologize in advance for the inconvenience

**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-20
Date: May 20, 2018 3:43:43 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

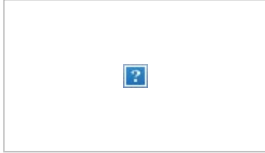
We had the road crew pushing snow last night on the road. We can now escort ERT if needed.
No traffic authorized yet except for road maintenance. Environment will evaluate the caribou migration this morning and an update will follow later before noon.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-21
Date: May 21, 2018 3:44:56 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

Departure is not confirmed yet. Could be done by helicopter.

We will provide an Update

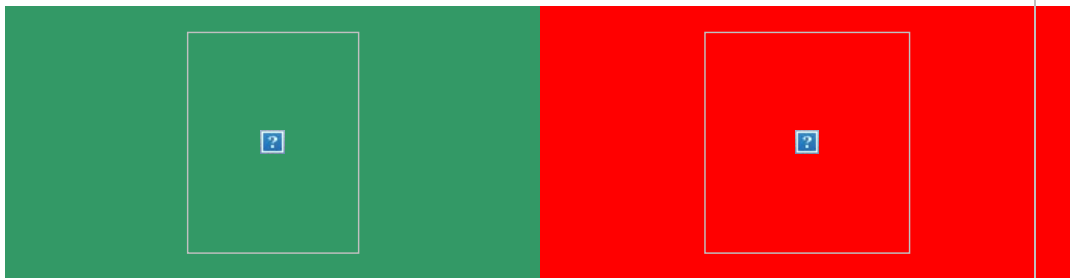
According to caribou migration and road condition

Comment

The road is totally blocked from k 40 to k 50. Equipment are progressing very slowly, sometimes in a wall of snow. We are planning to do the crew change with choppers. In the eventuality we progress faster than expected on the 10 k remaining to reopen, we will cancel the choppers and go with vehicles. No access for ERT by the road.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



From: [Alma Itkilik](#)
To: [Amaruq](#); [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: Amaruq Road Closed
Date: May 22, 2018 7:35:05 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning,

As of now, the Environment team closed the Amaruq Road(north bound) due to caribou crossing the road on KM1.

They will be monitoring the wildlife and will update when the road will re open.

If you have any questions, don't hesitate to contact the Environment team on the **AMQRDMB** channel.

Thank you.

Alma Itkilik
Haul Truck Operator
Dispatch Relief

alma.itkilik@agnicoeagle.com

T: 819.759.3555 x

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Alma Itkilik](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: Vault Road Closure
Date: May 22, 2018 1:21:08 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good afternoon everyone,

The Vault Mining Road is now **closed** and restricted for ERT.

As per the Caribou Migration Procedure from Environment.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

Inspection, Planning, Decision and Execution in all we do
SUPERVISION FORMULA PHILOSOPHY

HOPE / Helping Other People Evolve
HOPE / Helping Other Projects Evolve

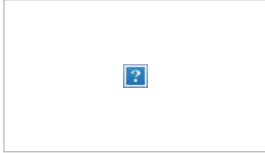
Alma Itkilik
Haul Truck Operator
Dispatch Relief

alma.itkilik@agnicoeagle.com

T: 819.759.3555 x

Agnico Eagle Mines Limited
Meadowbank Division

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-22
Date: May 22, 2018 3:42:31 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Will Leave as Planned

We will provide an Update In *If the Conditions Are Changing*

According to caribou migration and road condition.

Comment

The road is open for light vehicles only. We will confirm later when the road is safe for tractor trailers. Still a few caribou along the road. Reduce your speed or stop if they are close or crossing the road according to our wildlife protocol. Lot of equipment working to remove the snow, slow down and ensure a good communication.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*

Open

Open With Restriction



From: [Donald Dodge](#)
To: [Mblast Notice](#); [Meadowbank AEM](#)
Subject: VAULT ROAD CLOSURE CARIBOU MIGRATION
Date: May 22, 2018 2:09:32 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning everyone,

The Vault Mining Road is now closed and restricted for **ERT**.

As per the Caribou Migration Procedure from Environment.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

Inspection, Planning, Decision and Execution in all we do
SUPERVISION FORMULA PHILOSOPHY

HOPE / Helping Other People Evolve
HOPE / Helping Other Projects Evolve

Donald Dodge
Mine Dispatcher

donald.dodge@agnicoeagle.com

T: 819.759.3555 x6949

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
XOC OAO

agnicoeagle.com



From: [Donald Dodge](#)
To: [Meadowbank AEM](#); [Mbblast Notice](#)
Subject: VAULT ROAD RE-OPENED TO NORMAL MINING ACTIVITIES
Date: May 22, 2018 2:51:48 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning everyone,

The Vault Mining Road is now open for traffic in both directions.

As per instructions from Environment.

The Caribou Migration is finished for now.

Conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949.

Thank you for your co-operation have a safe day.

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SUPERVISION FORMULA PHILOSOPHY

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Donald Dodge
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Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
XOC OAO

agnicoeagle.com

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-23
Date: May 23, 2018 3:46:00 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

The Daily Ride:

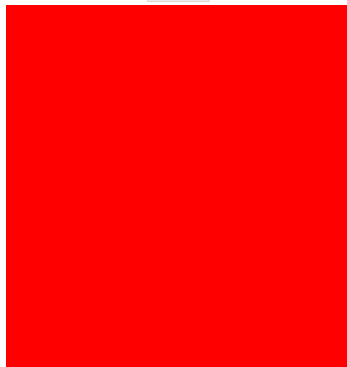
Road crew will escort the daily ride this morning

We will provide an Update

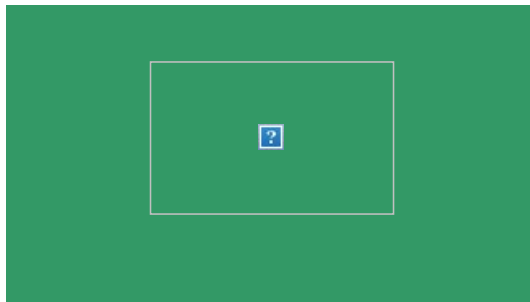
Comment

lots of drifting snow on the road

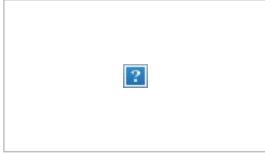
*The road between Baker Lake
and Exploration Camp is:*



*The road between Exploration
Camp and Meadowbank is:*



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-23
Date: May 23, 2018 3:43:39 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

The road is now open to all traffic. Caribou migration is not over yet. Keep eyes open and respect wildlife protocol.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Alma Itkilik](#)
To: [Meadowbank Contractors](#); [Meadowbank AEM](#)
Subject: Vault Road Closed
Date: May 23, 2018 9:03:41 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good morning everyone,

The Vault Mining Road is now closed and restricted for ERT.

As per the Caribou Migration Procedure from Environment.

The conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

Any questions in regards to the current conditions contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

Inspection, Planning, Decision and Execution in all we do
SUPERVISION FORMULA PHILOSOPHY

HOPE / Helping Other People Evolve
HOPE / Helping Other Projects Evolve

Alma Itkilik
Haul Truck Operator
Dispatch Relief

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Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

From: [Alma Itkilik](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: Vault Road Reopen
Date: May 23, 2018 2:59:12 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Hello everyone!

The Vault road is now reopened. The caribou are far enough from the road, but please reduce your speed behind the Pag waste dump, turn your beacon lights off and keep an eye out for the caribou.

Thank you for your co-operation.

Have a good evening!

Alma Itkilik
Haul Truck Operator
Dispatch Relief

alma.itkilik@agnicoeagle.com

T: 819.759.3555 x

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

agnicoeagle.com



agnicoeagle.com



From: [Jacques Fortier](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: VAULT ROAD RE-OPENED TO NORMAL MINING ACTIVITIES
Date: May 23, 2018 12:07:11 AM

Good morning everyone,

The Vault Mining Road is now open for traffic in both directions.

The Caribou Migration is finished for now.

Conditions will be monitored in regards to any changes in the restrictions on the Vault Mining Road.

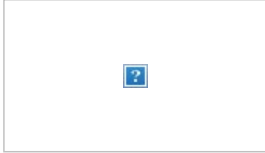
Contact Mine Supervisor on Channel # 11G, 13P, and 15V.

Dispatch @ EXT: 6949.

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-23
Date: May 23, 2018 3:40:32 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride: Will Leave as Planned

We will provide an Update In *If the Conditions Are Changing*

According to caribou migration and road condition

Comment

The road is restricted to light vehicles and service trucks only. Tractor trailers and fuel tankers are still not authorized to go. We are waiting for Environment Department instructions to modify or to maintain the road status.

*The road between Meadowbank
and Vault is:*

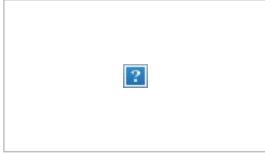
Open

*The road between Vault
and Amaruq is:*

Open With Restriction



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-25
Date: May 25, 2018 10:01:38 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

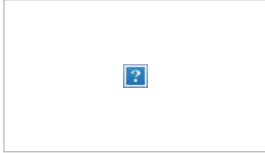
The road is now reopen to all traffic. Open also for road construction from k1 to k 7.
No activity permitted at quarry 10. The road will be closed again at the end of day shift for all night long.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-25
Date: May 25, 2018 4:18:34 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

**Supervisors, make sure all your crews have been informed.*

Mine

We will provide an Update

In

If the Conditions Are Changing

Comment

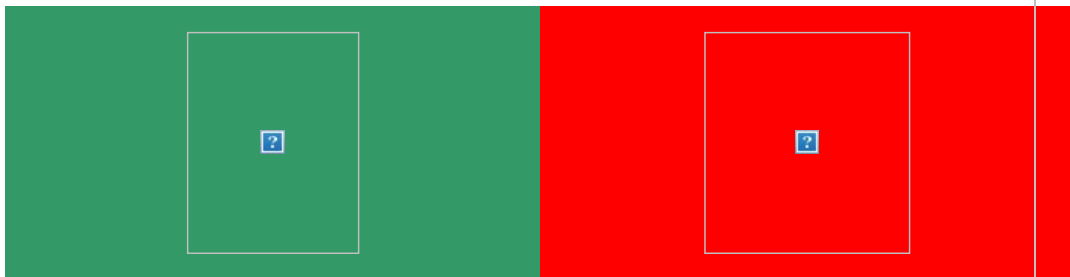
The road will be closed all night long to all traffic because of caribou migration.

*The road between Meadowbank
and Vault is:*

Open

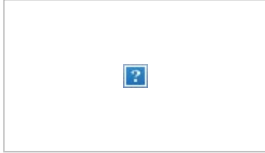
*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-25
Date: May 25, 2018 5:50:38 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

A convoy will be leaving from both end of the road at 9H00

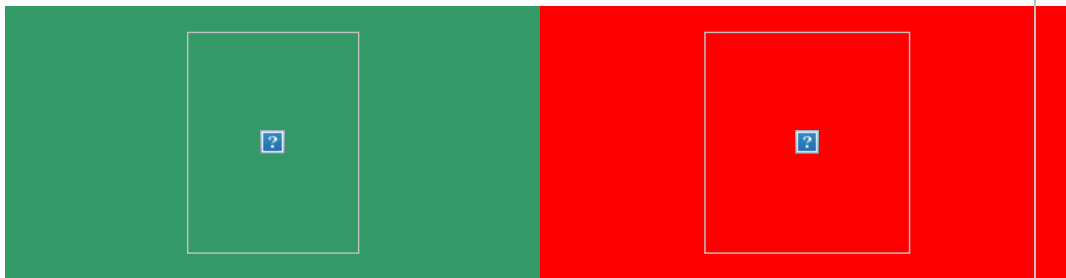
We will provide an Update

Comment

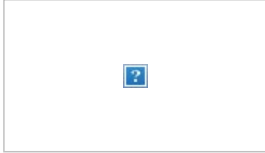
A convoy is schedule for 9h AM this morning for all traffic. Environment will escort on the road. Departure from both end of the road at the same time. Another convoy will be organized later during the day so you can come back. An update will follow for departure of the second one.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-26
Date: May 26, 2018 3:53:55 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

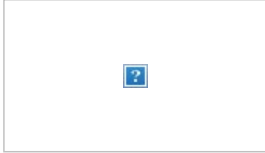
The road will be restricted tonight only for ERT, light vehicles and services trucks.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-26
Date: May 26, 2018 3:45:41 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

The Daily Ride:

We will provide an Update

Comment

The road was closed all night long and remains closed for now. Poor visibility, there was no road maintenance at all during the night and caribou migration. Closed to all traffic for now and we'll keep you posted if there is any change during the day.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Alma Itkilik](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: Amaruq Road Status Update
Date: May 27, 2018 7:30:56 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.jpg](#)
[image007.png](#)

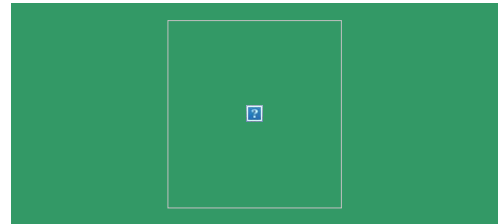
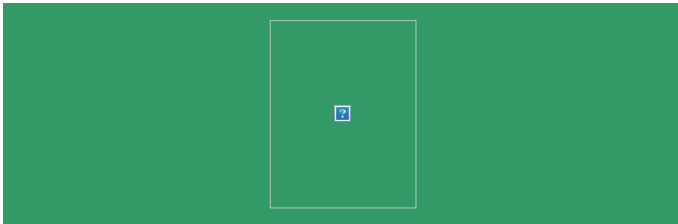
Good morning,

This is to inform all personnel that the Amaruq Road is now reopened to all traffic, including road construction equipment. There are still some caribou between Quarry 10 and KM20, so please slow down around that area, reduce your speed and turn your strobe lights off. Environment team will continue to monitor the caribou.

If you have any questions or concerns, do not hesitate to call Denis Gosselin on the AMQRDMB channel for more information.

We will keep you all informed throughout the day regarding the Caribou Migration.

Thank you all for your co-operation and have a great day!



Alma Itkilik
Haul Truck Operator
Dispatch Relief

alma.itkilik@agnicoeagle.com

T: 819.759.3555 x

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

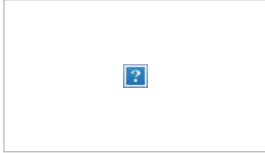
agnicoeagle.com



agnicoeagle.com



From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-27
Date: May 27, 2018 11:38:24 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

Give your clearance for the blast tonight.

We will provide an Update

Comment

Please be aware there is a blast tonight at 6h30 in Phaser Pit.

Because of the caribou monitoring, you could get caught in a convoy or delayed by environment on the road. Please contact your supervisor to give your clearance for the blast if you're to be late.

The road between Meadowbank
and Vault is:

The road between Vault
and Amaruq is:



From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-27
Date: May 27, 2018 3:50:04 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

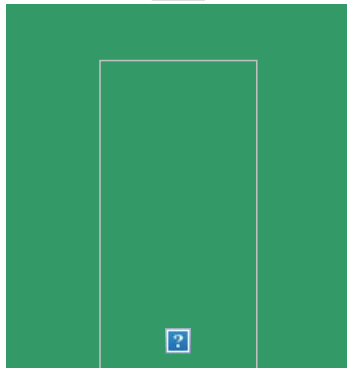
Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

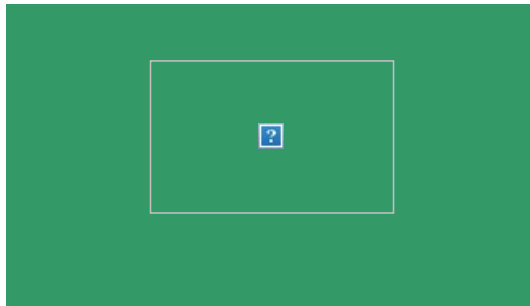
*The road between Baker Lake
and Exploration Camp is:*

Open



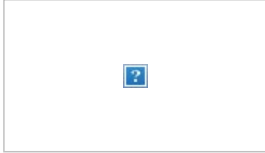
*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-27
Date: May 27, 2018 4:43:48 PM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

According to caribou migration

Comment

The road is open to all traffic.

Be vigilant for caribou and respect the Wildlife protocol when they are close.

*The road between Meadowbank
and Vault is:*

Open

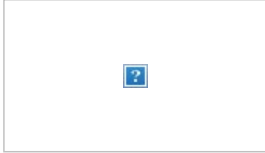
*The road between Vault
and Amaruq is:*

Open



**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-27
Date: May 27, 2018 3:15:14 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

According to caribou migration

Comment

The road remains restricted only for ERT and light vehicles for now.
Some caribou still crossing the road. Environment will give us an update early this morning.

*The road between Meadowbank
and Vault is:*

Select...

*The road between Vault
and Amaruq is:*

Select...



We apologize in advance for the inconvenience

From: [Mathieu Paradis](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amarug](#)
Subject: Road Status Update - 2018-05-28
Date: May 28, 2018 3:39:46 AM
Attachments: [1A5BE02.jpg](#)
[A192E2C7.jpg](#)
[F0189F6D.jpg](#)



Road Status Update

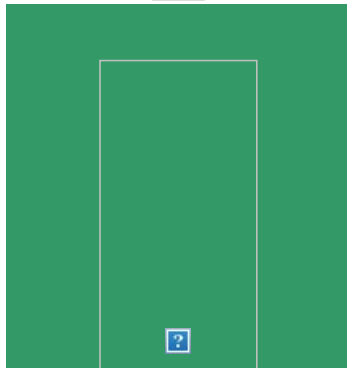
Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

E & I

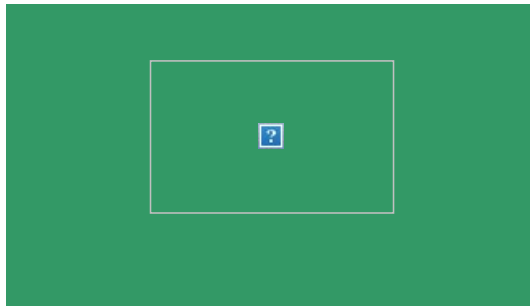
*The road between Baker Lake
and Exploration Camp is:*

Open



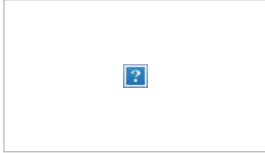
*The road between Exploration
Camp and Meadowbank is:*

Open



**If you have any questions, contact the Road supervisor at ext. 6902 or on the Road channel.*

From: [Denis Gosselin](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-28
Date: May 28, 2018 3:45:18 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

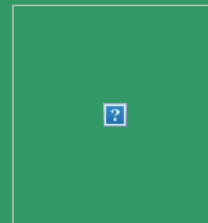
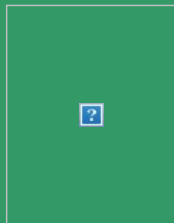
We will provide an Update

Comment

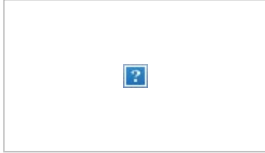
The road is open to all traffic.
Please remind your personnel to monitor for caribou.
Reduce your speed, close your lights and stop when needed.
They have the priority.

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-30
Date: May 30, 2018 9:16:15 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

We will provide an Update

In

If the Conditions Are Changing

Environment is monitoring the caribou situation and will let us know when the situation changes

Comment

We have some caribous between KM1 and KM4 on the Amaruq road. The Amaruq road will be closed to all traffic in this area. Environment is monitoring the situation and will escort the southbound vehicles that are already on the road.

*The road between Meadowbank
and Vault is:*

Open

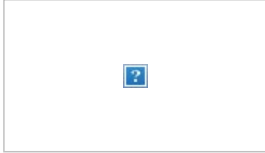
*The road between Vault
and Amaruq is:*

Closed



We apologize in advance for the inconvenience

From: [Roch Chabot](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-05-30
Date: May 30, 2018 10:05:46 AM
Attachments: [1A5BE02.jpg](#)
[AA68800D.png](#)
[3AF29AA3.png](#)



Road Status Update

Please be advised of the road status information specified below

***Supervisors, make sure all your crews have been informed.**

Mine

The Daily Ride:

Comment

The caribous have moved away from the Amaruq Road, so the Amaruq is now opened to all traffic.

Thank you

*The road between Meadowbank
and Vault is:*

*The road between Vault
and Amaruq is:*



**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

From: [Mathieu Aube](#)
To: [Meadowbank AEM](#); [Meadowbank Dyno Nobel](#); [Meadowbank Contractors](#); [Cam Hodgins - AFS](#); [Michael Hachey - Artic Fuel](#); [Frank](#); [Amaruq](#)
Subject: Road Status Update - 2018-06-05
Date: May 6, 2018 11:32:49 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.jpg](#)
[image007.jpg](#)



Please be advised of the road status information specified below
*Supervisors, make sure all your crews have been informed.



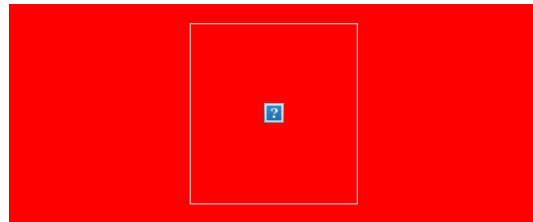
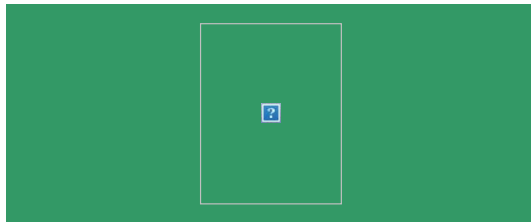
Comment

AMQ road will remain closed due to caribou presence and poor visibility. We will provide escort for the daily ride tomorrow. Construction crew is still allowed to work at KM1

The road between Meadowbank and Vault is:



The road between Vault and Amaruq is:



We apologize in advance for the inconvenience

**If you have any questions, contact the Mine Road supervisor at ext. 6976 or on the Mine Operation channel.*

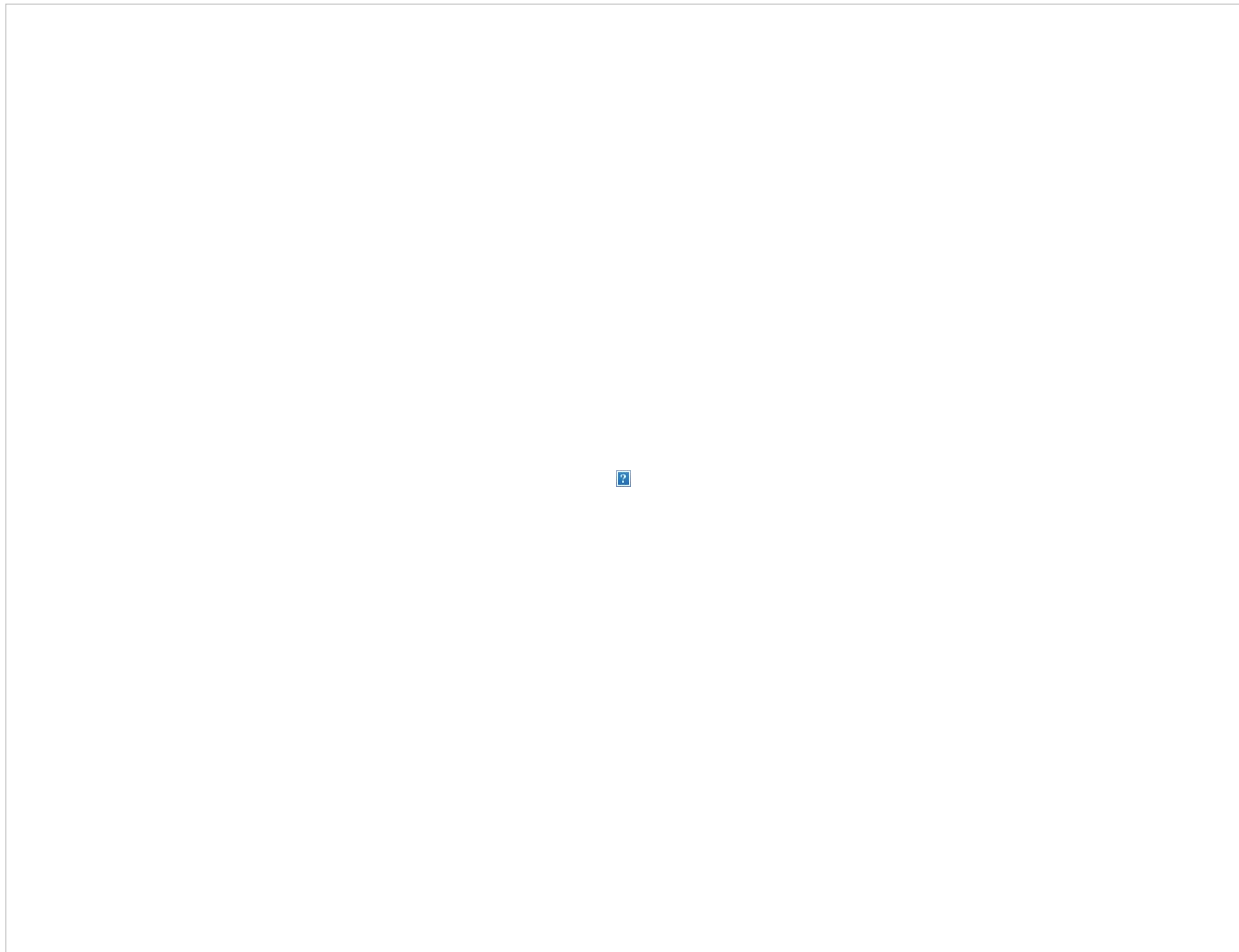
From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arseneault](#); [Jeff Tulugak](#); ["Luis Manzo \(lmanzo@kyellonuit.ca\)"](#); [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Meadowbank Environment Supervisors](#); [Karen Yip](#); [Luc Chouinard](#); [Christian Bourcier](#); [Julie Belanger](#)
Subject: Meadowbank AWAR restricted, September 27th - night shift
Date: September 27, 2018 5:49:32 PM
Attachments: [image002.png](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.jpg](#)
[image017.png](#)

Good evening,

With caribou presence increasing along Meadowbank's AWAR (km 40-50), we've decided to restrict access to the road for night shift. We will have crews monitoring the road tomorrow to see if further actions are needed.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,



Robin Allard
Senior Environmental Coordinator

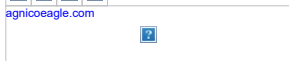
robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arsenault](#); [Jeff Tulugak](#); "[Luis Manzo \(lmanzo@kivalliqinuit.ca\)](#)"; [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Meadowbank Environment Supervisors](#); [Karen Yip](#); [Luc Chouinard](#); [Christian Bourcier](#)
Subject: Meadowbank AWAR open_September 28th
Date: September 28, 2018 5:54:53 PM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.png](#)

Good evening,

The AWAR and the Whale Tail hauling road and sites were monitored during the day by the environmental department. Small groups of caribou were observed and were found to be scattered away from the roads.

We will keep monitoring during the week-end to see if further actions are needed.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate

Robin Allard
Senior Environmental Coordinator

robin.allard@agnicoeagle.com

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Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Jacques Fortier](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#); [Road Status Meadowbank](#)
Subject: Amaruq road update
Date: October 22, 2018 11:19:45 AM

Good afternoon!

AMARUQ ROAD STILL CLOSED

Environment are still monitoring the group of caribou around KM4 and KM5. The bus from Meadowbank to Amaruq will leave shortly with a pick up escort.

The conditions will be monitored and an update will follow in regards to any changes in the restrictions on the Amaruq Road.

If you have any questions in regards to the current conditions contact dispatch @ EXT: 6949

Thank you for your co-operation have a safe day.

The safety of our people is our number one concern during these type of activities

From: [Robin Allard](#)
To: [Russel Toolooktook](#); [Jeff Hart](#); [Robert Arseneault](#); [Jeff Tulugak](#); [Luis Manzo \(lmanzo@kyellonuit.ca\)](#); [Hugh Nateela](#)
Cc: [Meadowbank Environment](#); [Meadowbank Environment Supervisors](#); [Karen Yip](#); [Luc Chouinard](#); [Christian Bourcier](#); [Pierre McMullen](#)
Subject: Meadowbank AWAR and Amaruq road - October 22nd
Date: October 22, 2018 6:45:41 PM
Attachments: [image006.jpg](#)
[image007.jpg](#)
[image008.jpg](#)
[image009.jpg](#)
[image010.jpg](#)
[image011.jpg](#)
[image001.png](#)

Good evening,

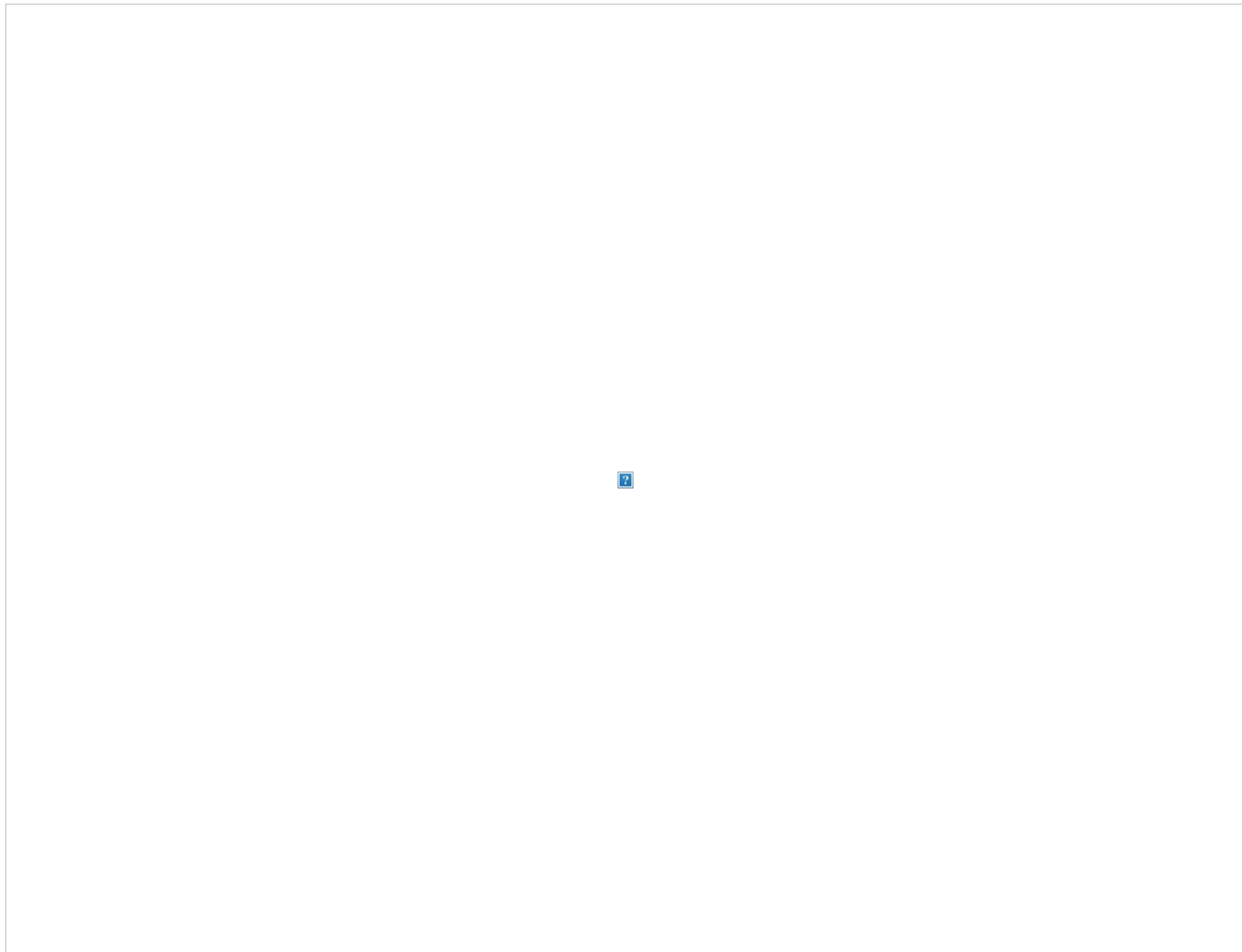
We are observing an increase in caribou sightings around our projects.
Find below an update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR was open all day, caribou were scattered between km 75 to 90, away from the road.
The Amaruq road was closed from Meadowbank to km 30, on the 21st for night shift and has remained closed all day of the 22nd. More than 500 caribou were observed from km 1 to 10 in close vicinity of the road, with infrequent crossings of the road. Crew change was allowed under restricted access with the Environmental Department.
The Vault hauling road was open all day, caribou, more than 500, were observed during the day but remained far the area.

We will have crews monitoring the road tomorrow to determine further steps.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,



Robin Allard General Supervisor Environment
robin.allard@agnicoeagle.com Direct 819.759.3555 x6838
Agnico Eagle Mines Limited - Meadowbank Division - Baker Lake, Nunavut, X0C 0A0
agnicoeagle.com

From: [Tom Thomson](#)
To: [Robert Arsenault; rtoocotook@gov.nu.ca](#); [Jeff Tulugak; Jeff Hard; lmanco@kivalliqinuit.ca; bakerlake@kivalliqto.ca](#); [Luc Chouinard; Christian Bourcier; Yan Cote; Karen Yip](#)
Cc: [Meadowbank Environment; Meadowbank Environment Supervisors](#)
Subject: Meadowbank AWAR and Amaruq road - Oct 23rd
Date: October 23, 2018 4:14:42 PM
Attachments: [image001.png](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.jpg](#)
[image007.jpg](#)

Good evening,

Find below an update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

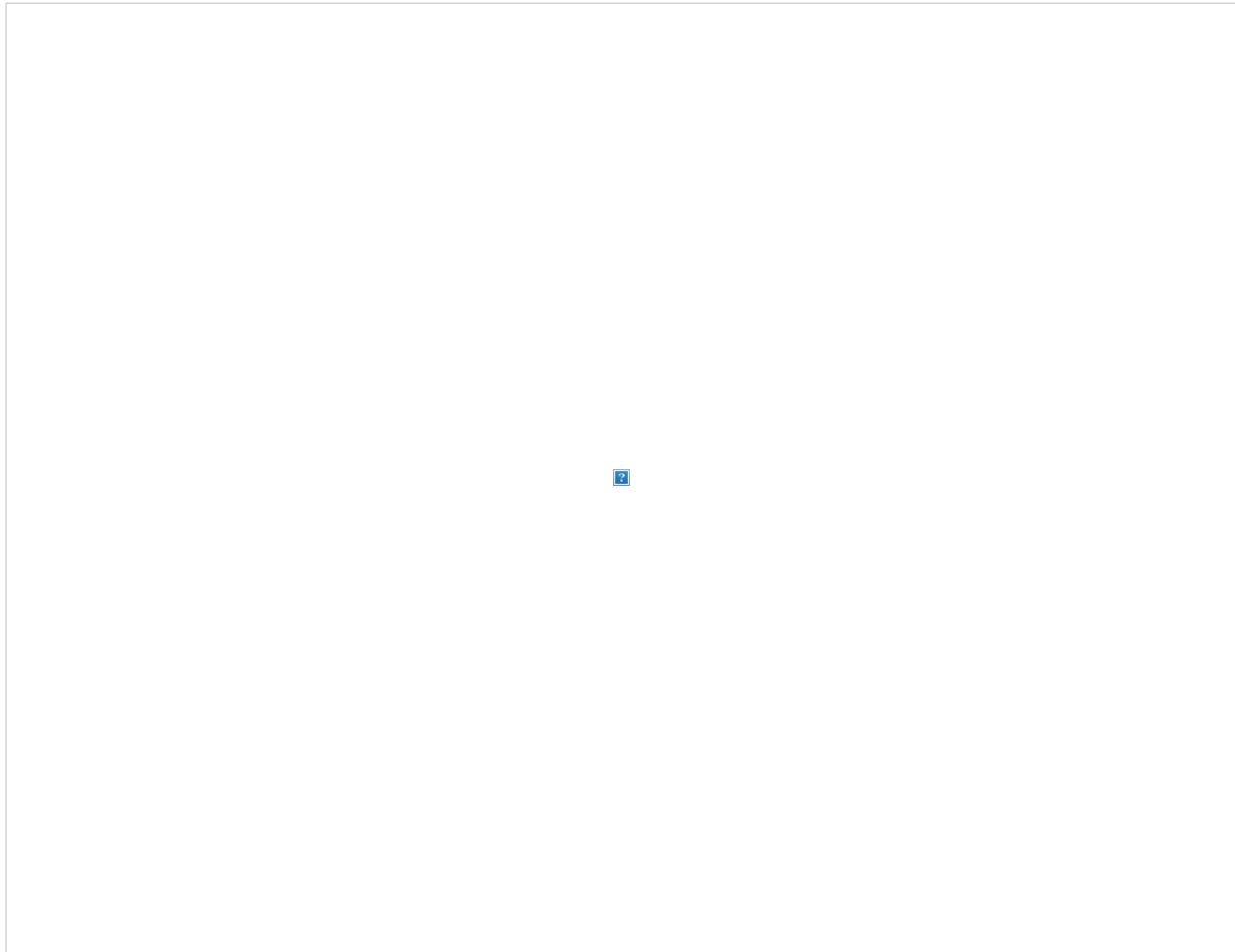
The AWAR was open all day, caribou were scattered between km 72 to 92 but away from the road.


The Amaruq road was closed to km 30, on the 22nd for night shift and remained closed during dayshift today. Approximately 1000 caribou were observed from km 12 to 15 but remained far from the road. Crew change and a convoy was allowed under restricted access with the Environmental Department.

The Vault hauling road was open all day, no caribou were observed during the day.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

Please do not hesitate to call or email if you have any questions,



 **Tom Thomson** Environmental Coordinator
tom.thomson@agnicoeagle.com Direct 819.759.3555 x6744
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agnicoeagle.com

From: [Tom Thomson](#)
To: [Robert Arsenault](#); [Russel Toolooktool](#); [Imanzo@kivalliqinuit.ca](#); [Jeff Hart](#); [Jeff Tulugak](#); [Karen Yip](#); [Luc Chouinard](#); [Christian Bourcier](#)
Cc: [Meadowbank Environment](#); [Meadowbank Environment Supervisors](#)
Subject: Meadowbank AWAR and Amaruq Road - Oct 24th
Date: October 24, 2018 5:09:35 PM
Attachments: [image002.png](#)
[image007.jpg](#)
[image008.jpg](#)
[image009.jpg](#)
[image010.jpg](#)
[image011.jpg](#)
[image012.jpg](#)

Good evening,

Find below an update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

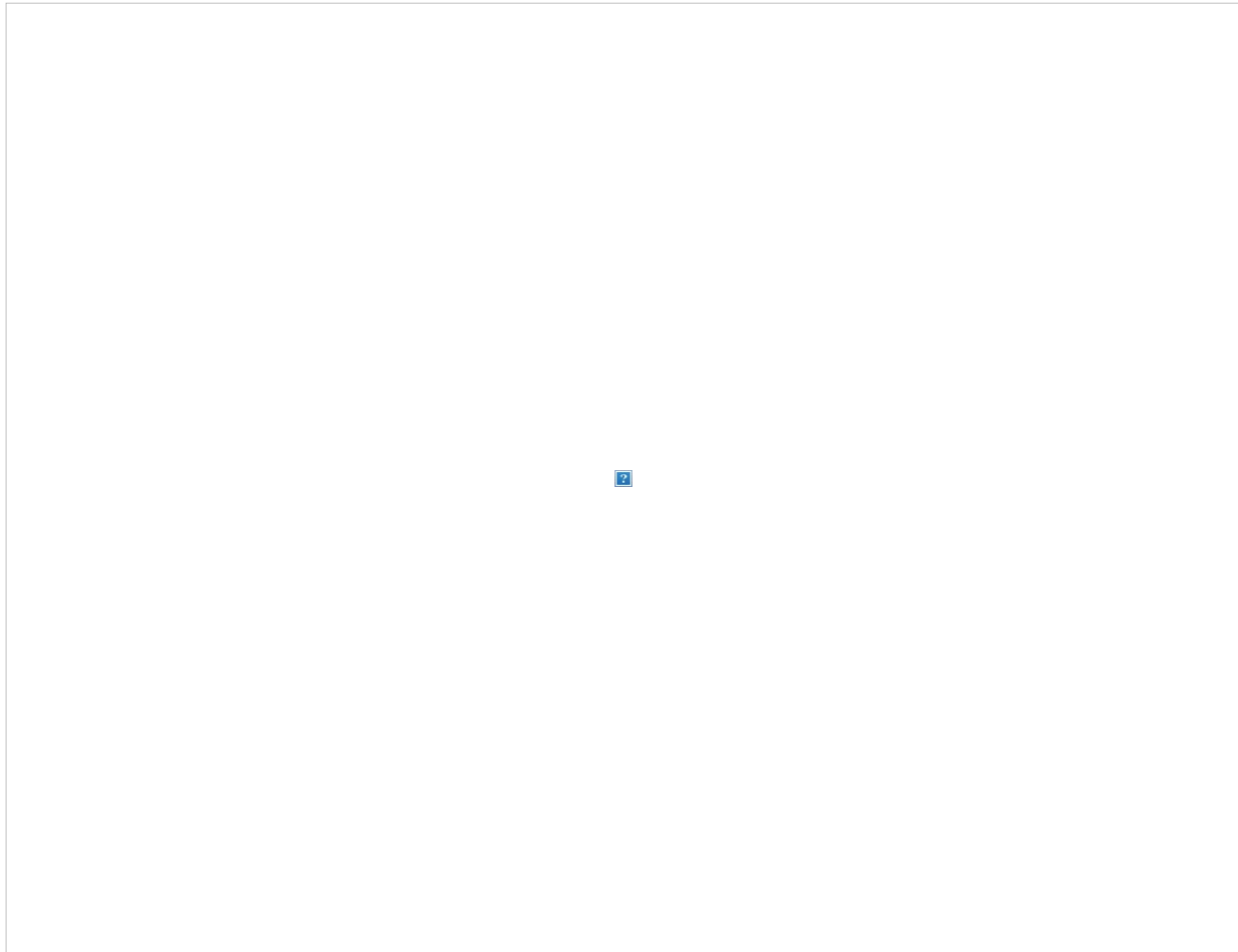
The AWAR was open all day, no caribou were observed during the day.

The Amaruq road was opened during night shift on the 23rd and remained open all day on the 24th. Approximately 1000 caribou were observed from km 15 to 20 but remained far from the road. The Environment team monitored the road throughout the day.

The Vault hauling road was open all day, no caribou were observed during the day.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

Please do not hesitate to call or email if you have any questions,



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Agnico Eagle Mines Limited - Meadowbank Division, Suite 540 - Baker Lake, Nunavut, Canada X0C 0A0
[agnicoeagle.com](#)

From: Tom Thomson
To: Robert Arsenault; Russel Toolooktook; Jeff Hart; Jeff Tulugak; Inanzo@kivalliqinuit.ca; bakerlake@kivallighto.ca; Christian Bourcier; Luc Chouinard; Karen Yip
Cc: Meadowbank Environment; Meadowbank Environment Supervisors
Subject: Meadowbank AWAR and Amaruq road - October 25th
Date: October 25, 2018 6:42:36 PM
Attachments: image002.png
image007.jpg
image008.jpg
image009.jpg
image010.jpg
image011.jpg
image012.jpg

Good evening,

Find below an update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

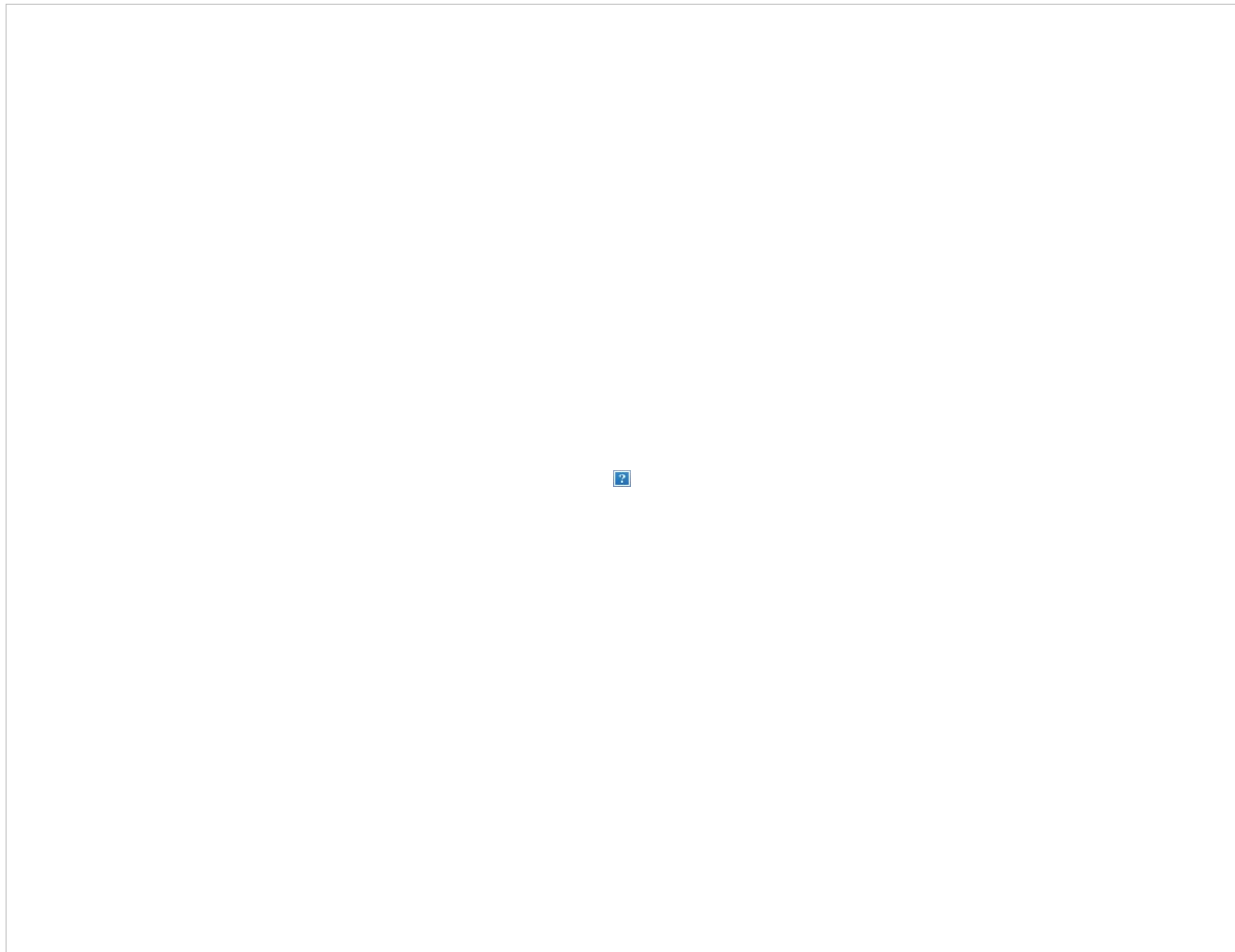
The AWAR was open all day, no caribou were observed during the day.

The Amaruq road was open all day on the 25th. Approximately 1000 caribou were observed from km 8 to 20 but remained far from the road. The Environment team monitored the road throughout the day.

The Vault hauling road was open all day, no caribou were observed during the day.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

Please do not hesitate to call or email if you have any questions,



Tom Thomson Environmental Coordinator
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From: [Robin Allard](#)
To: rtoooktook@gov.nu.ca; bakerhto@giniq.com; landsbaker@kivalliqinuit.ca; RArsenault@GOV.NU.CA
Cc: [Meadowbank Environment](#); [Meadowbank Environment Supervisors](#); [Karen Yip](#); [Stephane Larose](#); [Laurier Godin](#); [Luc Chouinard](#)
Subject: Amaruq road restricted access_October 28th
Date: October 28, 2017 7:01:10 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)

Good evening,

Some observations were made of roughly 150 caribou at km 8 of the Amaruq road at 18h00. They were located at roughly on the west side at +/- 800 meters from the road.

With increasing presence along our access roads it was decided that traffic would be restricted on the Amaruq road until reassessment tomorrow.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

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From: Tom Thomson
To: Robert Assenault; Russel Toolooktook; Jeff Hart; Jeff Tulugak; Imanzo@kivalliqinuit.ca; bakerlake@kivalliqto.ca; Karen Yip; Luc Chouinard; Christian Bourcier
Cc: Meadowbank Environment; Meadowbank Environment Supervisors
Subject: Meadowbank AWAR and Amaruq road - October 31st
Date: October 31, 2018 4:03:30 PM
Attachments: [image002.png](#)
[image007.jpg](#)
[image008.jpg](#)
[image009.jpg](#)
[image010.jpg](#)
[image011.jpg](#)
[image012.jpg](#)

Good evening,

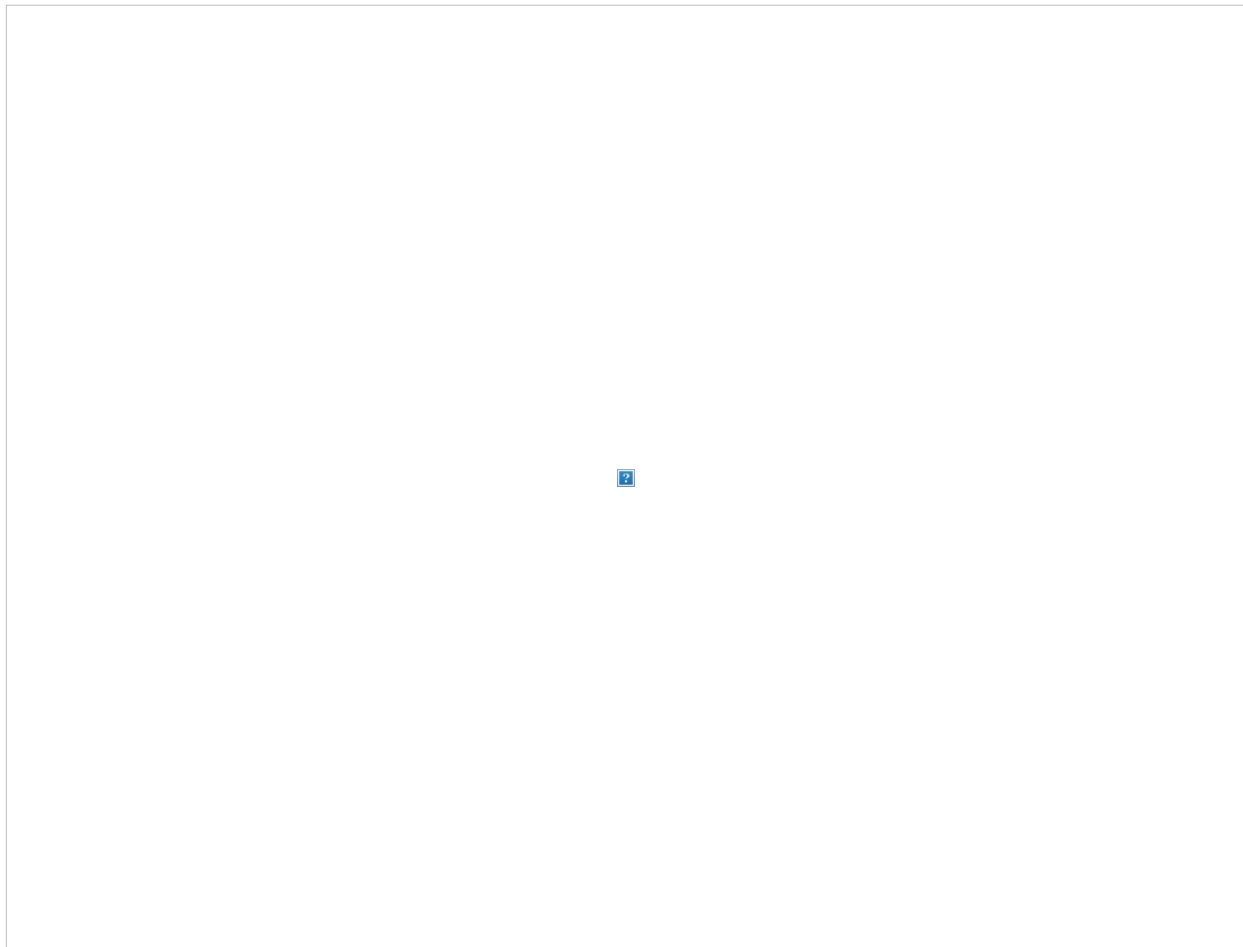
Find below an update on caribou presence along Meadowbank's AWAR and along the Amaruq road.

The AWAR and Amaruq road was open all day.

The Vault haul road was closed at 4:30pm this afternoon and will remain closed for the evening. Approximately 1000 Caribou were observed between Meadowbank and Vault.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

Please do not hesitate to call or email if you have any questions,



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APPENDIX D

2018 Wildlife Mortality Reports

Wildlife Incident Report

Date: 2018-01-14

Event Description:

Wolverine sightings have been increasing since the beginning of 2018 around the Meadowbank camp site. Observations around the front desk area were noted on multiple occasions. The environmental department increased patrols and monitoring efforts ever since. The animal was deterred with flares and bangers.

On January 2nd the Baker Lake Conservation office was notified of increased presence and overall safety concerns of workers on site.

Tracks were regularly noticed around the kitchen area, thus, an inspection was completed around and underneath the portion of camp to ensure no attractants were present in the area. Some damage was noted on heat traces but overall no attractants was found.

Regular monitoring was still being performed by the Environmental Department and deterring actions completed. The wolverine was still being reported daily as well as increased safety concerns with workers/animal interactions.

On January 8th, the Environmental Senior Coordinator contacted Conservation Officer III Russell Toolooktook to discuss the overall situation and take recommendations on furthers steps to be taken. It was advised that wolverine could be aggressively deterred. If these measures were proven not to be effective, authorisation was given to dispatch the animal. The written wildlife destruction authorisation was received via email from the Conservation Office on January 9th (appendix). The Mine manager and the Environmental Superintendent were informed of the authorization.

Recommendations and Action Taken:

Efforts were maintained until January 13th when a wolverine was reported around the front desk/wing 12 area and around the kitchen at 18h00. The animal appeared intent and persistent on getting access into a garbage bin located outside the housekeeping area. It was decided that the animal would be deterred from the location using a multiple vehicle approach to ensure the wolverine was chased out of the mine site. The Security and Health and Safety departments were called for assistance. After successfully pushing it away from the area, the animal was reported back at the same location shortly after. On the second observation it was decided by the Environmental Senior Coordinator that an attempt would be made to euthanize the animal, night shift presenting limited traffic and presence in the area. Two shots were fired at the animal, by Tom Thomson, Environmental Senior Technician, using 12 gauge buckshot shells. It kept moving, heading towards the airstrip area. It was caught up to at the North Cell tailings storage facility where the animal slowed down to enable another shot to be safely taken. The wolverine went down on that shot and a final lethal shot was taken to ensure the animal was properly dispatched around 20h05.

Carcass will be brought to the Baker Lake GN Conservation office as soon as possible, as requested.

We trust that this report describes the event appropriately. If you have any question, please communicate with the undersigned.



Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744



Photo 1: Wolverine dispatched

Wildlife Incident Report

Date: 2018-01-17

Event Description:

Fox sightings have been increasing since December 2017 around the Amaruq camp site. On December 26th 2017, a fox had chewed and broken the heat trace of one of the grease trap pipes. A skirting has been installed around the kitchen area of the camp to prevent future incidents.

On January 8th 2018, the Amaruq Senior Environmental Technician contacted Conservation Officer III Russell Toolooktook to discuss the overall situation and take recommendations on further steps to be taken. The authorisation was given to dispatch the animal on the 10th. The written wildlife destruction authorisation (in appendix) was received via email from the Conservation Office on January 15th. The Mine manager and the Environmental Superintendent were informed of the authorization.

Recommendations and Action Taken:

A cage was set up with bait inside the grease trap room on January 13th 2018. On January 16th, the bait was gone but there was no animal inside the cage. Adjustments were made to the cage to avoid such event. On January 17th, a fox was trapped inside the cage. The cage, with the animal inside it, was brought to the open pit where it was safe to shoot. Two shots were fired at the animal by Kevin Martee, Environmental Assistant, using 12 gauge buckshot shells at 08:30, January 17th 2018.

Carcass will be brought to the Baker Lake GN Conservation office as soon as possible, as requested.

We trust that this report describes the event appropriately. If you have any question, please communicate with the undersigned.

Marie-Josée Banville
Environmental Technician

mjosee.banville@agnicoeagle.com

T: 819.759.3555 , 6808

Wildlife incident report

Date: 2018-01-26

Event Description:

As it was reported earlier this week by Environmental Senior Coordinator, wolf sightings have been increasing since January 11th 2018 around the Meadowbank mine site. Observations around the environment office, incinerator and transit area were noted on a daily bases since January 17th. The environmental department increased patrol and monitoring efforts ever since. The animal was deterred with flares, bangers, rubber buckshot's, rubber slugs, ski doo and vehicle for several days. On January 19th, the Baker Lake Conservation officer was notified of increased presence and a report of the wolf observation and deterring actions was sent on the 22nd (see annexe: Wolf observation and deterring actions around Meadowbank site).

Monitoring of the animal and deterring from main camp facilities with pick up on a full time base began January 22nd in the afternoon to ensure the safety of the employees

Deterring actions weren't having any effect on the animal that was spending most of his time lying down on the ground in a curled up position. When the wolf was moving, the only way to keep the wolf away from the main camp facility was by blocking the road with pick up.

On January 25th, the Environmental Senior Coordinator received from the Conservation Officer III, Russell Toolooktook, the authorization to dispatch the wolf. Environmental senior technicians Jamie Kataluk and Martin Theriault supported by the Security Officer Donald Gauthier guided the wolf towards a safer area for site safety reasons and proceed to euthanize the animal. Jamie Kataluk used the .223 Remington to dispatch the wolf and a 12 gauge was there as a backup.

The animal was properly dispatched around 14:30 on the 25th. As requested by the Conservation Officer, the wolf was skinned, the fur will be brought on the 26th and the carcass will be burn in the incinerator.

We trust that this report describes the event appropriately. If you have any question, please communicate with the undersigned.



Martin Archambault
Environmental Senior Coordinator
martin.archambault@agnicoeagle.com

T: 819.759.3555 x6744

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X0C 0A0



Wolf lying down on the ground in a curled up position



Wolf dispatched in a safe location



Wolf carcass once skinned

ANNEXE

Wolf observation and deterring actions around Meadowbank site

January 22nd 2018

Re: Wolf observation and deterring actions around Meadowbank Site

Event Description

2018-01-11

1 wolf was reported on Third Portage Lake, close to the camp area. Bangers were shot to push it away from site.

2018-01-13

1 wolf was reported by the primary crusher ramp, passing through. Monitoring was done by environment technicians.

2018-01-14

1 wolf was reported on the north side of the TSF. The animal was not seen by environment technicians.

2018-01-17

Technicians were on snowmobiles to patrol entire Mine site for wildlife, upon approaching a hill behind the FGL area a wolf was observed on top of the hill. Technicians began to go towards the wolf to deter it away from the Mine site, wolf walked to onto the lake so technicians followed it for about 2 kilometers and in between the wolf would stop and observe surrounding areas. Technicians kept following the wolf for another kilometer going south, technicians stopped snowmobiles and monitored the wolf until it was not seen anymore. While observing the wolf, appeared to be weak and hungry and would not run as they usually do. Rubber buck were used on the animal.

2018-01-18

A wolf was reported by the incinerator area at 10:30 and technicians were able to lead the animal towards TPL where it was followed on the lake for 2 kilometers. The animal appeared persistent in his efforts to stay around the area.

In the afternoon, the same wolf was reported by the blue coverall and Environment office. Using vehicles the environmental department was able to push the animal towards TPL where it was followed for an estimated 5 kilometers south-west.

2018-01-19

The same wolf was reported in the morning at the same areas as the previous days. Rubber buck shots and noise was used to deter the animal. BL Conservation officer II Russell Toolooktook was advised and given a e-mail recap on the wolf situation at Meadowbank.

2018-01-20

Employee reported seeing a wolf by the incinerator and going towards the transit laydown, employee was told to follow the wolf until technicians arrive to the scene. Technicians began deterring the wolf from the transit laydown towards TPL and the wolf kept going back and forth between Cat dome warehouse and Environment office eventually going away from site through the Incinerator. The wolf came right back by the Cat dome warehouse between sea cans than to transit laydown. Technicians kept deterring wolf using pickups and rubber buck shots and the wolf would lie down on the ground tucking its head to its belly each time it lied down on the ground. Once deterred from the area the wolf walked towards the Environment office and went in between sea cans and lied down on the ground again and stayed there for about 45 minutes until a fox went by the wolf and began chasing after the fox. After capturing the fox, technicians began deterring the wolf towards the Incinerator and accessed back to site through the incinerator than behind the communications tower than to the waste rock pile and lied down on the crest of the pile and stayed there. Technicians monitored the wolf until it was too dark to see the wolf.

2018-01-21 13:30

Wolf reported to Environment, observed entering camp area by the Incinerator. Technicians responded to call and monitored areas where it was first reported, advised employee who reported the wolf to follow it until technicians arrive into area. Wolf was observed by the Incinerator trying to get to camp site. Technicians with the assistance of security began deterring wolf towards TPL; wolf would go away from areas than try go into other areas through different access. Once the wolf was inside camp site, was followed and deterrent actions were taken using pickup trucks to deter away from site. Wolf went in between sea cans on the transit pad and lied down on its belly so technicians used the horn on the pickup trucks with no response from the wolf than eventually got into between the retaining berm and Primary crusher pad than lied down again, technicians monitored the area for about 30 minutes without observing the wolf. 2 screamer deterrents were used deployed using a pistol with no response from the wolf, as technicians carried on monitoring the area another call from observing the same wolf by the airstrip and going towards the runway than to the lake between airstrip and Nova camp. 2 more screamer deterrents were fired to the side of the wolf but there was no response from the wolf, it kept going towards the Incinerator and followed by technicians and Security and entered the site by the Cat Dome warehouse and going around sea cans to get access to different areas. Technicians kept following the wolf to deter going from the Cat dome warehouse than to transit laydown than behind sea cans that are placed behind the Blue coverall. Wolf was last observed beside sea cans that are behind the blue cover-all and monitored for about 45 minutes with no observance of the wolf and no reports of the wolf during the rest of the day.

2018-01-22

The BL Conservation officer II, Russell Toolooktook was contacted in the morning to recap the situation and discuss further actions to be taken. He requested a detailed written statement on actions taken including photos of the animal. Upon reception of the statement and after discussion deterring subject matter expert, the Environmental Department would be contacted with recommendations on additional steps required.

At around 15:30 the wolf was reported at the same areas, and was monitored and deterred from the area. Environmental technicians hit the animal with 4 rubber slugs. The wolf was followed around the same route (Cat Dome, Blue Coverall, Incinerator, and Environment office and transit laydown). The animal was followed and monitored until it could not be found again. The Environmental department patrolled the area until 18:00.



Photo 1: wolf between sea cans at the Transit laydown



Photo 2: wolf on the ramp for Waste rock pile



Photo 3: wolf lying down between sea cans by the Environment office



Photo 4: wolf eating a fox between sea cans by the Transit laydown

Wildlife Mortality report

Date: February 1st 2018

From: *Martin Theriault*

Description:

On February 1st around 7:00 am, the environment department received a call from a worker regarding a dead fox near the incinerator. Environment personnel went to the location of where the dead fox was reported and saw the animal in the middle of the road. Guts were still in the carcass.



Actions and Recommendations:

The carcass was brought to the incinerator.

Meetings to be held to inform about wildlife around mine site and right of way for wildlife when encountered around the Mine site

I trust the above details and report to be satisfactory. Please contact the undersigned should any questions arise regarding the report.

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

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Baker Lake, Nunavut, Canada
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AGNICO EAGLE



Wildlife incident report

Date: 2018-02-26

Event Description:

As we reported to the Conservation Officers who came on site on 2018-02-26, we had wolf mortality on site.

The night before, around 00h00, I received a call for a wolf at Sana's garage. Once I been there, I tried to deter the animal with a banger. After a least 10 shoots of them, It was clear that the animal was sick or hurt because he didn't move. I discussed with the supervisor and we decided to keep a worker for a safety as spotter

In the morning we went back to the Sana's garage to re-evaluate the situation. When we arrived on site, somebody told us that the wolf didn't move a lot since the night before. This re-evaluation indicated that the wolf have an injurie on the top of his head. We decided to request, from the Conservation Officer at Baker Lake, an authorization to euthanize the wolf,

By the time that we went back at the office and called to have the permission, a worker went in a seacan 100 feet away, and when he finished his job and get ready to exit from the container, he saw the wolf in front of the door. He went back in the corner of the seacan and waited.



We contacted immediately the Conservation Officers and explained the situation and our need to have the authorization for Wildlife destruction. We received a verbal authorization, and hardcopy later.



By the time, we were able to remove one pallet in the seacan and make an escape way for our worker. We still observed that the wolf didn't move during this intervention. Finally the worker went out in the safe place.

We left a guard in front of the seacan and we came to call the Conservation Officer. After the first discussion that we had, it was decided to close the door and keep the wolf inside until the next day with the visit of the Conservation Officers. But later, the Conservation Officer asked us to reopen the door and left somebody as a guard. We proposed to build a wall with seacan with, at the end, a possibility for the wolf to go back in the nature.

During this operation, one of our Environmental technicians opens the door slowly and looked inside. He saw his mouth frozen, he was dead following his injury.



We brought the carcass to our office and gave it to the Conservation Officers.

We trust that this report describes the event appropriately. If you have any question, please communicate with the undersigned.



Martin Archambault
Environmental Senior Coordinator
martin.archambault@agnicoeagle.com

T: 819.759.3555 x6744

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Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

Wildlife Mortality report

Date: February 27, 2018

From: *Fanny Laporte*

Description:

The **All weather access road** (AWAR) dispatch sent an email on February 27th, stating that a dead arctic hare was observed; see the email & details below. We did not go there nor pick it up and do not know the cause of the death.

Good afternoon

There was a dead rabbit sighted near the bridge near KM – 49 area by PEL driver

Thomas Akoak at 14:21 February-27-2018 .

Thank-you Mellow

Joseph Tunguaq

Gatehouse Baker Lake

Title

bakerlake.gatehouse@agnicoeagle.com

T: 819.759.3555 x6628

Actions and Recommendations:

Remind all AWAR users to report any incident with wildlife, reduce speed and give the right of way to wildlife.

I trust the above details and report to be satisfactory. Please contact the undersigned should any questions arise regarding the report.

Fanny Laporte

Environmental Technician

T: 819.759.3555 x6747

Agnico Eagle Mines Limited

Meadowbank Division

Baker Lake, Nunavut, Canada

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AGNICO EAGLE



Wildlife Mortality report

Date: April 26th, 2018

From: *Fanny Laporte*

Description:

Environment department was called at 15:30 on April 26th, by one of the mine supervisor for a wolf present in the mine vicinity and the wolf was eating a prey. Once we got to the area, the wolf was leaving and only fur and the fox tail was left.

We picked up the fur and brought it to the incinerator.





Site showing the carcass and wolf tracks

Actions and Recommendations:

The mine supervisor did a good job in reporting the event and spotting the wolf until the environment technician could get to the area.

There was effective communication, no recommendation

If you require any more details, please feel free to contact me,

Thank you

Fanny Laporte
Environmental Technician
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AGNICO EAGLE



Wildlife Incident Report Form

Date:	2018-08-08	Time:	15:23
Individuals involved:	Baker Lake Gatehouse-via e-mail	Vannia Ordaz Rivero	Victor Utatnaq
Species:	Caribou		
Number, gender, age:	1 male, mature		
Location (description):	Km 29 west side – 150 meters from the road. Right by the Kilometer 29 marker		
Location (UTM):	14W 0634834 07161111		
Digital photo numbers:	yes		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
Environment with local contractor were doing the Wildlife survey southbound, 2 ATV's were at the scene and reported the dead caribou to Environment when they arrived at the scene. Environment then reported the carcass to Baker Lake gatehouse			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
No deterrents used			
Describe any communication with GN-DOE:			
Called Conservation officer in Baker Lake, informed them we are working on the report			
What immediate measures were taken to reduce risk or harm?			
Removed carcass and bring to Meadowbank to be incinerated			
What measures are recommended to prevent future occurrences?			
Inform road users to use extra caution when travelling on the road as wildlife will appear anywhere on the road. Ask Baker Lake gatehouse to keep reminding road users of possible wildlife sightings			
Report prepared by:	Jamie Kataluk	Reviewed by:	



Dead caribou at Km 29 – west side



Dead caribou at Km 29 – west side

Wildlife Mortality report

Date: September 20th, 2018

From: Isabelle Couture

Description:

We received a call from the Assay Lab concerning a dead bird. The dead duck was found on the ground between the Assay lab and the Process Plant building. The bird probably broke his neck by entering in contact with the wall of the building. Carcass was sent to the incinerator.

Actions and Recommendations:

No specific action and recommendations regarding this event.

I trust the above details and report to be satisfactory. Please contact the undersigned should any questions arise regarding the report.



Wildlife Mortality report

Date: September 17th, 2018

From: Isabelle Couture

Description:

We received a call for a dead duck. The dead duck was found on the ground between the Assay lab and the Process Plant building, no blood around. The bird probably broke his neck by entering in contact with the wall of the building. Carcass was sent to the incinerator.

Actions and Recommendations:

No specific action and recommendations regarding this event.

I trust the above details and report to be satisfactory. Please contact the undersigned should any questions arise regarding the report.



Wildlife Incident report

Date: October 1st, 2018

From: *Robin Allard*

Description:

During road maintenance operation, on night shift, the snowplow was driving southbound at km 26 at 0h30 when 6 caribou crossed the road in front of the equipment. The driver applied the brakes but did not manage to stop in time to avoid the last animal. The caribou was hit with the end of the plow but was able to keep moving across the road. The driver stopped the snowplow and got out to inspect the area and see if the animal was around. There was no sign of the animal in the surroundings and no traces of bodily harm at the impact area. Thus the driver continued his work and report to his supervisor at the end of the shift. The incident was reported to the Environmental Department in the morning.

Actions:

The Environmental staff went on location and patrolled the area during the day of October 1st but no signs of a wounded animal were observed. Our department will keep monitoring in the next few days to ensure follow-up on the incident.

If you require any more details, please feel free to contact me,



Robin Allard | Senior Environmental Coordinator

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Wildlife observation report

Date: October 16th, 2018

From: Martin Archambault

Description:

During the night of October 15th, at 1h00 am, a worker reported that an injured wolf was spotted at Km 8 on Amaruq Road. The wolf limping and he was close to the road. Even if the traffic on the road on the night shift is low, everybody was advised to reduce the speed around Km 8 and monitored the wolf if it's possible. The wolf has been not seen again.

At 3h00 am another worker reported 10 caribou on the road at Km 6. Again everybody was advised to reduce their speed around this area. And stop if the caribou crossing the road.

Actions:

In the morning, the Environmental staff went on location and monitored up to km 10. Near Km 5 a wolf was observed eating a caribou. The carcass was at 80 m from the road and it was evident with the track (wolf and caribou) on both side of the road indicated a chase. We did another survey before the lunch time and we observed two wolves eating the carcass. The youngest wolf was limping, he has injuries on his left leg.

The Environmental department will continue to monitor for a few days this area to ensure follow-up on the observations.

If you require any more details, please feel free to contact me,



Martin Archambault | Senior Environment Coordinator

martin.archambault@agnicoeagle.com | Direct 819.759.3555 x6744 | Mobile 819.856.9510

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Wildlife Incident Report Form

Date:	2018-11-03	Time:	10:30
Individuals involved:	Jamie Kataluk		
	Isabelle Couture		
Species:	Wolverine		
Number, gender, age:	unknown		
Location (description):	Third Portage Lake		
Location (UTM):	14W 0636210 7213898		
Digital photo numbers:	Photo 1	Photo 2	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>While driving a snowmobile on the north portion of Third portage lake, a black spot on the ice was observed, Environment crew went to the spot and observed a wolverine. Used extra caution approaching the wolverine to see if it's sleeping or not. One of the technicians drove by it to check to see if it's sleeping but it did not move. Technician kicked the wolverine on the back by its tail and did not move, carcass was removed from the ice.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
None			
Describe any communication with GN-DOE:			
What immediate measures were taken to reduce risk or harm?			
Approach with caution, check more than once to ensure it is a mortality			
What measures are recommended to prevent future occurrences?			
Report prepared by:	Jamie Kataluk	Reviewed by:	



Photo 1: first observance



Photo 2: closer observance

Wildlife Mortality Report

Date: November 16th, 2018

From: Tom Thomson

Description: Caribou mortality - KM 95 AWAR

During the afternoon of Nov 15th while conducting caribou monitoring along the AWAR, Environmental technician observed a wolf eating a caribou carcass approximately 50m from the road at KM95. As the truck moved closer to the scene the wolf left the area.

Paw prints and scattered bits of bone, hair and blood were observed around the area where the caribou had been killed.

Approximately 400 Caribou had been observed between KM 80 and KM92 earlier in the day but away from the road.

Actions:

Due to the close proximity to the road the decision to remove and incinerate the remaining pieces of carcass to prevent other predators and scavengers being attracted to the area was taken.

We trust that the above details described appropriately the wildlife incident that occurred at the Meadowbank site on November 15, 2018 and the remediation activities that followed. Please contact the undersigned should you have any questions.



Tom Thomson | Environmental Coordinator

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East side of AWAR – KM95



Photo 2 – Overview of area



Photo 3 - Caribou remains



Photo 4 - Tracks of group that passed through the area

Wildlife Mortality Report

Date: November 21, 2018

From: Tom Thomson

Description: Caribou mortality - KM 60 AMQ road

During the afternoon of Nov 21 while conducting caribou monitoring along the AMQ road, an operator notified the dispatch of a wolf eating a caribou carcass approximately 50m from the road at KM60. When ENV staff and GN Conservation officers arrived on scene, the wolf was still eating the caribou carcass and did not move away from the area.

Actions:

Due to the proximity of the wolf to the carcass, the decision to remove and incinerate the remaining pieces of carcass was delayed until the wolf had moved away from the area.

On the morning of Nov 23, ENV technicians patrolled the area and determined it was safe to proceed removing the remaining pieces of carcass to prevent other predators and scavengers from being attracted to the area. Paw prints and scattered bits of bone, hair and blood were observed around the area where the caribou had been killed.

We trust that the above details described appropriately the wildlife incident that occurred at the Meadowbank site on November 21, 2018 and the remediation activities that followed. Please contact the undersigned should you have any questions.



Tom Thomson | Environmental Coordinator

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East side of AMQ Road – KM60



Scattered remains of Caribou

Wildlife Mortality Report

Date: November 24, 2018

From: Tom Thomson

Description: Caribou mortality - KM 60 AWAR

During the morning of Nov 24, Baker Lake dispatch was notified by Arctic Fuel truck driver of a wolf eating a caribou close to the AWAR at KM60. MBK Security was on the road that afternoon and confirmed to MBK Environment that the wolf remained in the area close to the caribou.

Actions:

Due to the proximity of the wolf to the carcass, the decision to remove and incinerate the remaining pieces of carcass was delayed until the wolf had moved away from the area.

On the afternoon of Nov 26, ENV technicians patrolled the area and determined it was safe to proceed removing the remaining pieces of carcass to prevent other predators and scavengers from being attracted to the area. Paw prints and scattered bits of bone, hair and blood were observed around the area where the caribou had been killed.





We trust that the above details described appropriately the wildlife incident that occurred at the Meadowbank site on November 24, 2018 and the remediation activities that followed. Please contact the undersigned should you have any questions.



Tom Thomson | Environmental Coordinator

tom.thomson@agnicoeagle.com | Direct 819.759.3555 x6744 |

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Scattered remains – AWAR KM60



Wildlife Mortality Report

Date: November 30th, 2018

From: Isabelle Couture

Description: Artic fox mortality – Whale Tail project

On November 29th (4:45 pm), an energy and infrastructure worker found a dead artic fox in the grease trap building during his preventive maintenance.

Actions:

The artic fox was removed from the grease trap.

Two weeks ago, a carpenter did some maintenance and fixed some holes around that building. The building will be inspected again to ensure that there is no small access for any wildlife.

The environmental department will keep the artic fox until we receive information from the conservation officer regarding the carcass.

We trust that the above details described appropriately the wildlife incident that occurred at the Whale Tail site on November 29th, 2018 and the remediation activities that followed. Should you have any question, please contact the undersigned.



Isabelle Couture | Environmental Technician

isabelle.couture@agnicoeagle.com | Direct 819.759.3555 x6747 |

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Artic fox in the grease trap



Artic fox removed from the grease trap



Wildlife Mortality report

Date: December 6th, 2018

From: *Nicolas Saucier*

Description:





During wildlife survey on the Wail Tail hauling road, the survey crew notices a dead arctic hare at km 171. The carcass had evident signs of impact and was on the middle on the road, frozen solid.

Actions and Recommendations:

Remind all road users to report any incident with wildlife, reduce speed and give the right of way to wildlife.

I trust the above details and report to be satisfactory. Please contact the undersigned should any questions arise regarding the report.



Nicolas Saucier | Senior Environment Technician
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Wildlife Incident Report Form

Date:	2018-12-08	Time:	7:00
Individuals involved:	Lee Christophe Bouchard		
Species:	Arctic Hare		
Number, gender, age:	1		
Location (description):	KM 176 Amaruq road		
Location (UTM):			
Digital photo numbers:	Yes	PC080001	
		PC080002	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>While driving to Amaruq, the employee noticed a dead artic hare on the road at KM 176, he picked it up and call environment upon arrival on site. I picked up the carcass in the back of his truck, it was frozen and eviscerated. I put it in the environment freezer until further notice. Nobody witness or report an incident with the animal on the road.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
N/A			
What immediate measures were taken to reduce risk or harm?			
N/A			
What measures are recommended to prevent future occurrences?			
Remind crews to report any incident involving wildlife.			
Report prepared by:	Fanny Laporte	Reviewed by:	

2018/12/08

The animal carcass is all there in one piece



APPENDIX E

2018 Wildlife Observation Records

JANUARY 1, 2018 - DECEMBER 31, 2018
JANUARY, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-01-01	6:00:00 AM	Meadowbank	near the main entrance	Wolf	1		Remi (E.I.)		
2018-01-01	12:00:00 PM	Amaruq	Incinerator	Fox	1	Walking	Marie-Josée B		Monitored the area
2018-01-02	1:00:00 PM	Meadowbank	fresh water barge area	Wolverine	1	Walking	Martin Theriault		No action required
2018-01-02	3:00:00 PM	Meadowbank	EMR hill	Wolf	1		Davis Kilfoy		No action required
2018-01-02	12:00:00 AM	Meadowbank	main entrance	Wolverine	1	Grazing	Martin Theriault		Deterred. Successful
2018-01-02	12:30:00 AM	Meadowbank	truckshop	Wolf	1	Walking	Mine dispatch		Monitored the area but no sight
2018-01-03	3:00:00 AM	Meadowbank	near main entrance	Wolverine	1	Grazing	Martin T		Deterred. Successful
2018-01-03	10:00:00 AM	Meadowbank	main entrance	Wolverine	1		Martin T		Deterred. Successful
2018-01-03	11:30:00 AM	Meadowbank	incinerator	Wolf	1	Walking	Mathieu Paradis		Deterred. Successful
2018-01-03	12:00:00 PM	Meadowbank		Wolf	4	Hunting	Rod (kitchen chef)		No action required
2018-01-04	11:30:00 AM	Meadowbank	incinerator	Wolf	1	Walking	Martin T	Patrick (E.I.)	Deterred. Successful
2018-01-04	2:30:00 PM	Meadowbank	landfill	Wolverine	1	Hiding	Martin T	Stephane Dubeau	Deterred. Successful
2018-01-04	8:30:00 AM	Amaruq	Pad C	Arctic hare	1	Walking	J. C.		No action required
2018-01-05	8:00:00 PM	Meadowbank	cn pad	Wolf	1	Walking	Martin Theriault		No action required
2018-01-05		Meadowbank	near the incinerator	Wolf	2	Resting	Patrick (E.I.)	Mathieu Paradis	Deterred. Successful
2018-01-06	5:00:00 PM	Meadowbank	incinerator	Wolverine	1	Walking	Patrick (E.I.)		Monitored the area
2018-01-06	12:00:00 PM	Meadowbank	km 104	Caribou	12	Grazing	Martin Theriault		No action required
2018-01-06	5:30:00 PM	Meadowbank	km 92	Caribou	6		Paul B (AFS)		No action required
2018-01-06	6:30:00 PM	Meadowbank	surrounding of the camp in between incinerator and the Assay trench	Wolverine	1		Patrick (E.I.)		Monitored the area but no sight
2018-01-07	10:30:00 AM	Meadowbank	Snow dump near env. office	Wolf	1	Resting	Martin T		Deterred. Successful

2018-01-07	11:00:00 AM	Meadowbank		Wolverine	1	Running	Martin Theriault	Donald Gauthier	Deterred. Successful
2018-01-07	4:30:00 PM	Meadowbank	km 23	Caribou	3		Ronnie N (AFS)		No action required
2018-01-08	3:00:00 AM	Meadowbank	near the smoke shack at the main entrance	Wolverine	1		Kitchen staff		
2018-01-10	1:00:00 PM	Meadowbank	KM 93	Caribou	10		Eric Gagnon		No action required
2018-01-10	3:30:00 PM	Meadowbank	Landfill	Wolverine	1	Hiding	Fanny Laporte		Monitored the area
2018-01-10	4:00:00 PM	Meadowbank	fresh water barge road	Caribou	14	Walking	Joseph Qiyuk		No action required
2018-01-10	6:00:00 PM	Meadowbank	tailing north	Wolverine	1	Walking	Brandon Owingayak		No action required
2018-01-11	11:30:00 AM	Meadowbank	between wings and mills	Wolverine	1	Running	Fanny Lapore	Tom Tompson	Monitored the area but no sight
2018-01-11	11:30:00 AM	Meadowbank	by incinerator	Wolf	1	Running	Fanny Laporte	Tom Tompson	Deterred. Successful
2018-01-11	12:00:00 PM	Meadowbank	by fresh water barge hill	Caribou	8	Running	Fanny Laporte`	Tom Tompson	Monitored the area
2018-01-11	12:00:00 AM	Meadowbank	Near Kitchen Roll Off	Wolverine	1	Unknown	Louis-Phillipe Breton		Monitored the area
2018-01-12	2:30:00 PM	Meadowbank	Kitchen refer pad	Wolverine	1	Running	Tom Thomson	Charles Blouin	Deterred. Successful
2018-01-12	7:00:00 PM	Meadowbank	Kitchen	Wolverine	1	Walking	Kitchen staff		Monitored the area but no sight
2018-01-13	4:30:00 AM	Meadowbank	fuel farm	Wolverine	1	Running	Fanny Laporte		Deterred. Successful
2018-01-13	11:00:00 AM	Meadowbank	Km 105, west side	Caribou	15	Grazing	Fanny Laporte	Tom Thomson	No action required
2018-01-13	11:00:00 AM	Meadowbank	airstrip	Wolverine	1	Running	Fanny Laporte	Tom Thomson	Deterred. Successful
2018-01-13	11:00:00 AM	Meadowbank	primary crusher ramp	Wolf	1	Running	Fanny Laporte	Tom Thomson	Monitored the area
2018-01-14	11:30:00 AM	Meadowbank	North Cell Cyanide Burn Pad	Wolf	1	Unknown	BL Dispatch		Monitored the area but no sight
2018-01-14	11:30:00 AM	Meadowbank	KM93	Wolf	2	Crossing the road	BL Dispatch		No action required
2018-01-16	2:00:00 AM	Amaruq	Drills	Fox	1	Walking	unknown		No action required
2018-01-17	3:30:00 PM	Meadowbank	West of FGL	Wolf	1	Walking	Jamie K	Tom T	
2018-01-19	11:00:00 AM	Amaruq	Incinerator	Fox	1	Walking	Marie-Josée B.		Monitored the area
2018-01-19	2:30:00 PM	Amaruq	Fuel farm	Wolverine	1	Running	R. M.		No action required
2018-01-21	2:30:00 PM	Meadowbank	between Incinerator and Cat dome	Wolf	1		Tom T	Jamie K	Monitored the area
2018-01-22	4:30:00 PM	Meadowbank	Incinerator	Wolf	1	Observing	Jamie K	Tom T	Deterred. Successful
2018-01-22		Amaruq	Fuel farm	Wolverine	1	Running	Jeremy P.		Monitored the area
2018-01-23	11:30:00 AM	Meadowbank	Incinerator	Wolf	1	Observing	Jamie K	Tom T	

2018-01-25	11:30:00 AM	Meadowbank		Wolverine	1	Running	Air controler		Monitored the area but no sight
2018-01-25	4:00:00 PM	Meadowbank		Wolverine	1	Running	Brian (site services)		Monitored the area but no sight
2018-01-25	11:30:00 AM	Amaruq	Incinerator	Fox	1	Running	A. S		No action required
2018-01-26	9:30:00 AM	Meadowbank		Wolf	1	Running	Benjamin Q		Monitored the area but no sight
2018-01-26	10:00:00 AM	Meadowbank		Caribou	7	Resting	Martin Theriault		No action required
2018-01-27	11:00:00 AM	Meadowbank	Km 105	Caribou	19	Grazing	Mark Nukik		Closed the road
2018-01-27	12:00:00 PM	Meadowbank		Wolverine	1	Grazing	Mark nukik		
2018-01-28	11:00:00 AM	Meadowbank	km 27	Musk-ox	14	Grazing	Martin Theriault		No action required
2018-01-30	5:00:00 PM	Meadowbank	refer pad area	Wolverine	1	Running	Fanny Laporte	E&I operator	Deterred. Successful
2018-01-30	5:30:00 PM	Meadowbank	by fresh water road	Caribou	5	Threatened	Fanny Laporte		No action required
2018-01-31	10:00:00 AM	Meadowbank	north of airstrip	Wolverine	2	Running	Martin Theriault	Fanny laporte	Monitored the area
2018-01-31	4:30:00 PM	Meadowbank	by Sana crusher	Wolverine	1		Nelson Bell		Monitored the area
2018-01-31	11:00:00 PM	Meadowbank	kitchen back door	Wolf	1	Walking	Night shift employee		Monitored the area but no sight

FEBRUARY, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-02-01	8:00:00 AM	Meadowbank	by assay lab road	Wolverine	1	Walking	unknowned		Monitored the area
2018-02-01	11:30:00 AM	Meadowbank	around mills and wings	Wolverine	1	Walking	Eric Parent	FL-MT	Monitored the area
2018-02-01	8:00:00 AM	Meadowbank	incinerator	Fox	1		Martin Theriault	Fanny Laporte	
2018-02-01	11:30:00 PM	Meadowbank	by front desk	Wolverine	1	Walking	Simon Beaudoin		No action required
2018-02-02	12:00:00 PM	Meadowbank	km 105	Caribou	23	Grazing	Martin T	Fanny L	Monitored the area
2018-02-03	1:00:00 AM	Meadowbank	By front desk	Wolverine	1	Walking	Called by Dispatch		Monitored the area but no sight
2018-02-03	7:00:00 AM	Meadowbank	Front desk on the	Wolverine	1		E& I employee		Monitored the area but no sight
2018-02-03	8:30:00 AM	Meadowbank	incinerator	Wolf	1	Walking	Pat from E&I		Monitored the area but no sight
2018-02-03	11:00:00 AM	Meadowbank	km 46	Wolverine	1	Running	Martin Theriault		No action required
2018-02-03	7:30:00 PM	Meadowbank	E&I offices	Wolverine	1		Martin Archambault		Monitored the area
2018-02-04	10:30:00 AM	Meadowbank	near saddle dam 2	Caribou	12	Grazing	Dyno worker		Monitored the area
2018-02-05	9:00:00 AM	Meadowbank	incinerator	Wolverine	1	Hiding	Brendon O.		Monitored the area but no sight

2018-02-05	12:30:00 PM	Meadowbank	TPE	Wolverine	1	Running	Martin T	Fanny L	No action required
2018-02-05	2:00:00 PM	Meadowbank	TPN	Wolverine	1	Running	Martin T	Fanny L	No action required
2018-02-05	6:30:00 PM	Meadowbank	tankfarm	Wolverine	1		E.I.		Monitored the area but no sight
2018-02-05		Meadowbank	km 14	Wolf	2		AFS driver		No action required
2018-02-05		Meadowbank	km 105	Caribou	20	Grazing	Road user		No action required
2018-02-06	12:30:00 PM	Meadowbank	between incinerator and Sana	Wolverine	1	Running	Fanny Laporte		Deterred. Successful
2018-02-07	11:00:00 AM	Meadowbank	end of airstrip	Wolverine	1	Running	Garry from E&I		No action required
2018-02-07	12:30:00 PM	Meadowbank	Sana Crusher	Wolverine	1	Crossing the road	Mine Dispatch		Monitored the area but no sight
2018-02-07	1:00:00 PM	Meadowbank	Fresh Water Barge Road	Wolverine	1	Running	Tom T	Fanny L	Monitored the area
2018-02-07	6:00:00 PM	Meadowbank	between STP and smoke shack	Wolf	1	Walking	Tom Thomson		Deterred. Successful
2018-02-07	7:30:00 PM	Meadowbank	stairs by smoke shack and E&I offices	Wolf	1	Walking	Fanny laporte	Martin Archambault	Deterred. Successful
2018-02-08	3:30:00 PM	Meadowbank	by SD2	Caribou	20	Grazing	Thomas Dahm		Monitored the area
2018-02-08	2:30:00 PM	Amaruq	Incinerator	Arctic hare	1	Walking	S.H.C		No action required
2018-02-09	2:30:00 PM	Meadowbank	Pit E3	Wolf	2	Crossing the road	Mine Dispatch		Monitored the area but no sight
2018-02-09		Meadowbank	Pushback parking & Pit E ramp	Wolf	1	Unknown	Genevieve L		No action required
2018-02-10	11:00:00 AM	Meadowbank	Close to EMR hill	Caribou	20	Grazing	Tom Thomson	Fanny Laporte	Monitored the area
2018-02-10	11:30:00 AM	Meadowbank	north, by the end of airstrip	Wolverine	1	Running	Brendon O.		Monitored the area but no sight
2018-02-12	10:30:00 AM	Meadowbank	North, end of airstrip	Wolverine	1	Running	Tom Thomson	Fanny Laporte	No action required
2018-02-12	5:30:00 PM	Meadowbank	KM 105	Caribou	20		Shannon Ryan		No action required
2018-02-13	9:00:00 AM	Meadowbank	by incinerator	Wolverine	1	Running	Fanny L.	Tom T.	Deterred. Successful
2018-02-13	9:30:00 AM	Meadowbank	on the hill by fresh water barge	Caribou	20	Grazing	Fanny L	Tom T.	No action required
2018-02-13	10:00:00 AM	Meadowbank	by electrical office and wing 1	Wolverine	1	Running	Eric Parent	Tom T	No action required
2018-02-13	3:30:00 PM	Meadowbank	Third portage Lake	Wolverine	1	Observing	Chris T		Monitored the area
2018-02-14	11:30:00 AM	Meadowbank	Fresh water barge area	Caribou	21	Grazing	Jamie K		No action required

2018-02-15	4:00:00 PM	Meadowbank	Pit E5	Wolf	3	Walking	driller		Monitored the area but no sight
2018-02-16	11:30:00 AM	Amaruq	Drills	Wolverine	1	Running	A. B.		No action required
2018-02-17	10:00:00 AM	Meadowbank	Between EMR hill and Tailings Road	Caribou	8	Grazing	Tom T	Jamie K	Monitored the area
2018-02-17	10:00:00 AM	Meadowbank	North Cell near SD1	Wolverine	1	Crossing the road	Tom T	Jamie K	No action required
2018-02-17	10:00:00 AM	Meadowbank	Near North Cell Tailings Road	Wolverine	1	Walking	Tom T	Jamie K	No action required
2018-02-18	7:00:00 AM	Meadowbank	Between Kitchen and Wing 12	Wolverine	1	Walking	Marc Thiverge	Alex Arcand	Monitored the area but no sight
2018-02-22	11:30:00 AM	Meadowbank	across EMR	Wolverine	1		Robert Pleadwell		No action required
2018-02-23	9:30:00 AM	Meadowbank	Cn burn pad	Wolverine	1	Running	Martin T	Jamie K	Deterred. Successful
2018-02-23	3:30:00 PM	Meadowbank	tear drop lake	Wolverine	1	Eating	Martin T	Jason (E.I.)	Deterred. Successful
2018-02-23	3:30:00 PM	Meadowbank	Fresh water barge	Caribou	4	Grazing	Martin T		No action required
2018-02-23	5:00:00 PM	Meadowbank	FGL area	Wolf	1	Resting	FGL field employee		Monitored the area but no sight
2018-02-24	9:00:00 AM	Meadowbank	Landfill	Wolverine	1	Running	Jamie K	Martin T	
2018-02-24	4:00:00 PM	Amaruq	Drills	Arctic hare	1	Running	Marie-Josée B.		No action required
2018-02-25	5:30:00 PM	Amaruq	Transit pad	Arctic hare	1	Resting	Ronnie L.		No action required
2018-02-26	4:30:00 PM	Amaruq	Behind kitchen	Fox	1	Running	Marie-Josée B.		No action required
2018-02-26	9:00:00 AM	Meadowbank	FGL	Wolf	1	Resting	Martin A	Martin T	Deterred. Unsuccessful
2018-02-26		Meadowbank	FGL	Wolf	1	Dead	Env. Tech.		
2018-02-27	4:00:00 AM	Meadowbank	By 'Y' sign bottom of RSF	Wolf	1	Walking	Jason from E&I		Monitored the area but no sight
2018-02-27	1:30:00 PM	Meadowbank	Close to airstrip	Caribou	1	Walking	Donald Gauthier		Monitored the area
2018-02-27	3:30:00 PM	Meadowbank	KM 49	Arctic hare	1	Dead	Thomas Akoak PEL driver		No action required

MARCH, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-03-02	12:00:00 PM	Meadowbank	KM68 west side	Caribou	12	Grazing	PEL driver Roland Tarraq		No action required
2018-03-06	8:00:00 AM	Meadowbank	TPnorth	Wolverine	1	Running	Ron Falardeau		No action required
2018-03-06	8:30:00 AM	Meadowbank	By south cell road	Arctic hare	2	Immobile	Fanny Laporte		No action required
2018-03-06	11:30:00 AM	Meadowbank	TPL	Wolverine	1	Running	Fanny Laporte		No action required

2018-03-07	5:00:00 PM	Meadowbank	North Cell Cyanide Burn Pad	Wolverine	1	Running	Tom T		Monitored the area
2018-03-07	7:00:00 PM	Meadowbank	KM95	Musk-ox	5	Grazing	Darryl S	Baker Lake Dispatch	No action required
2018-03-17	8:00:00 AM	Amaruq	Pad H	Arctic hare	1	Running	Marc-Andre D.		No action required
2018-03-18	2:00:00 PM	Amaruq	Outside Kitchen	Fox	1	Walking	Claude M.		Monitored the area but no sight
2018-03-22	1:30:00 PM	Meadowbank	Km 105	Wolf	1	Walking	Ronald - E&I		
2018-03-24	11:00:00 AM	Meadowbank	Km 69	Wolverine	1	Walking	Todd - AFS		
2018-03-24	5:30:00 PM	Meadowbank	Km 32 - west side	Caribou	20	Walking	Dino Stagg		
2018-03-25	4:00:00 AM	Meadowbank	EMR	Caribou	20	Grazing	LP - Dyno		
2018-03-27	8:00:00 AM	Meadowbank	EMR - east side	Caribou	3	Grazing	Dyno Nobel		
2018-03-27	1:30:00 PM	Meadowbank	KM 56 going east	Caribou	50	Walking	Passenger van driver PEL		No action required
2018-03-27	2:00:00 PM	Amaruq Road - Meadowbank	KM 47	Musk-ox	12	Grazing	Serge Racicot		No action required
2018-03-27	4:30:00 PM	Amaruq Road - Meadowbank	Kilometer 35	Caribou	10	Immobile	Marie-Josée B.	Daniel P.	No action required
2018-03-27	9:00:00 PM	Meadowbank	end of airstrip	Caribou	10	Walking	Joseph McLaren Dyno		No action required
2018-03-27	11:30:00 PM	Meadowbank	front desk	Wolverine	1	Unknown	Night shift worker		No action required
2018-03-29	2:00:00 PM	Meadowbank	front desk	Wolverine	1	Hiding	Fanny Laporte	Martin T.	Monitored the area
2018-03-30	9:00:00 AM	Meadowbank	tarmac	Wolverine	1	Running	Fanny Laporte		No action required
2018-03-30	11:00:00 AM	Meadowbank	front desk	Wolverine	2	Fighting	Sylvain Fournier	Martin Theriault	Monitored the area
2018-03-30	2:00:00 PM	Meadowbank	Tear drop lake	Wolverine	1	Running	Martin Theriault	Pat	Monitored the area
2018-03-31	5:00:00 AM	Meadowbank	Site service office	Wolverine	1	Running	Donald Aubin		Monitored the area
2018-03-31	11:30:00 AM	Meadowbank	on the way to Tehek lake	Wolverine	1	Walking	Fanny Laporte	Martin Theriault	Monitored the area

APRIL, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-04-01	2:00:00 PM	Meadowbank	Around main camp	Wolverine	1	Hiding	Martin Theriault	Fanny Laporte	Monitored the area
2018-04-01	8:30:00 AM	Construction - Amaruq	camp building	Fox	1	Walking	Serge Racicot		Monitored the area but no sight
2018-04-02	9:30:00 AM	Meadowbank	close to RSF and sana crusher	Wolverine	1	Walking	Mine operator		No action required
2018-04-02	10:30:00 AM	Meadowbank	KM 65	Caribou	20	Grazing	AFS driver		No action required
2018-04-02	12:00:00 PM	Meadowbank	KM47 on west side	Caribou		Grazing	Driver AFS		No action required

2018-04-02		Amaruq Road - Meadowbank	km 36	Caribou	20	Grazing	Nicolas S.		No action required
2018-04-03	8:00:00 AM	Meadowbank	Around front desk	Wolverine	1	Walking	Levi Q		Monitored the area but no sight
2018-04-03	4:00:00 PM	Meadowbank	vault road by turn lake 800m	Caribou	30	Grazing	Fanny Laporte	Ian Bourassa	Monitored the area
2018-04-04	11:00:00 AM	Meadowbank	close to north RSF ramp	Caribou	5	Grazing	Fanny Laporte		Monitored the area
2018-04-05	11:00:00 AM	Meadowbank	fresh water barge road	Wolverine	1	Running	Mathieu Paradis		Monitored the area but no sight
2018-04-05	5:00:00 PM	Amaruq	camp site	Snow owl	1		S.M.		No action required
2018-04-06	7:00:00 AM	Meadowbank	by fresh water barge road	Wolverine	1	Running	Fanny Laporte	Tom Thomson	Monitored the area
2018-04-07	3:30:00 PM	Meadowbank	Turn Lake	Caribou	300	Grazing	Mine Dispatch	Tom T	Monitored the area
2018-04-07	5:00:00 PM	Meadowbank	West side KM 3 500m	Caribou	400	Walking	Tom Thomson	Fanny Laporte	Monitored the area
2018-04-08	7:30:00 AM	Meadowbank	KM 101 west 200 m	Caribou	20	Grazing	Fanny Laporte	AFS driver	Monitored the area
2018-04-08	8:00:00 AM	Meadowbank	behind E&I offices	Wolverine	1	Running	Fanny Laporte		Deterred. Successful
2018-04-08	11:30:00 AM	Meadowbank	KM8	Caribou	50	Walking	Tom T		Monitored the area
2018-04-09	8:00:00 AM	Meadowbank	along vault road west 400m	Caribou	100	Grazing	Fanny laporte	Tom Thomson	Monitored the area
2018-04-09	9:00:00 AM	Meadowbank	By incinerator	Wolverine	1	Running	Fanny Laporte	E&I operators	Deterred. Successful
2018-04-09	2:30:00 PM	Meadowbank	on the lake	Wolverine	1	Running	Thomas Dahn		No action required
2018-04-09	3:30:00 PM	Meadowbank	EMR hill east side	Caribou	20	Resting	reported Dispatch	Fanny laporte	Monitored the area
2018-04-10	6:00:00 AM	Meadowbank	KM 90	Caribou	50		Ronnie Nagyougalik		Monitored the area
2018-04-10	9:00:00 AM	Meadowbank	KM92 west	Musk-ox	4	Resting	Fanny Laporte	Jamie Kataluk	No action required
2018-04-11		Amaruq Road - Meadowbank	km 37	Wolf	2	Walking	Pete H.		No action required
2018-04-12	2:00:00 PM	Meadowbank	Km 40 esat side	Caribou	100	Walking	Alex A		
2018-04-12	3:00:00 PM	Meadowbank	Km 3 west side	Caribou	100	Grazing	Jamie K		
2018-04-13	8:30:00 AM	Meadowbank	KM102	Caribou	7	Grazing	Jamie K	Tom T	Monitored the area
2018-04-13	12:00:00 PM	Meadowbank	KM65	Caribou	100	Grazing	BL Dispatch		No action required
2018-04-13	11:30:00 AM	Amaruq	Incinerator	Fox	1	Observing	Kevin M.		Monitored the area
2018-04-17	10:30:00 AM	Amaruq	Drill #6	Fox	1	Walking	J-H.F		No action required
2018-04-19	9:00:00 AM	Amaruq	Drill #6	Wolf	1	Walking	Drill operators		Monitored the area but no sight
2018-04-19	9:00:00 AM	Amaruq	Incinerator	Fox	1	Walking	M-J.B.		No action required

2018-04-19	12:00:00 PM	Amaruq	Fuel farm	Wolf	1	Walking	C.M		Deterred. Unsuccessful
2018-04-21	7:30:00 AM	Amaruq	Drill #7	Wolf	1	Walking	Drill operators		Monitored the area
2018-04-23	11:00:00 AM	Amaruq	AEM garage	Fox	1	Walking	Marc-André B.		Monitored the area
2018-04-24	3:30:00 PM	Meadowbank	by Turn lake	Caribou	200	Walking	Fanny Laporte		Monitored the area
2018-04-24	8:00:00 PM	Meadowbank	KM 104	Caribou	70	Resting	Fanny Laporte	Nancy Duquet Harvey	Monitored the area
2018-04-25	7:30:00 AM	Meadowbank	KM104 east 100m	Caribou	50	Grazing	Fanny Laporte		Monitored the area
2018-04-25	8:00:00 AM	Meadowbank	km111-112 west 300m	Caribou	250	Grazing	Fanny Laporte		Monitored the area
2018-04-25	4:30:00 AM	Meadowbank	km 57	Wolf	1	Walking	Night shift road crew		No action required
2018-04-25	3:00:00 PM	Meadowbank	KM 45	Wolf	1	Running	Fanny Laporte	Jamie Kataluk	No action required
2018-04-25	4:00:00 PM	Meadowbank	KM 67	Wolf	1	Running	Security officer		Monitored the area but no sight
2018-04-25	5:00:00 PM	Meadowbank	km 70	Wolf	1	Unknown	night shift road crew		No action required
2018-04-26	5:30:00 AM	Contractor Site Services Meadowbank	km 66	Wolf	2	Hunting	AFS tanker 2		No action required
2018-04-26	2:00:00 PM	Meadowbank	north cell burning pad	Wolverine	1	Running	Fanny Laporte	Martin Theriault	Monitored the area
2018-04-26	2:30:00 PM	Meadowbank	EMR hill E and W of road 50-200m	Caribou	75	Grazing	Fanny Laporte	Martin Theriault	Monitored the area
2018-04-26	3:30:00 PM	Meadowbank	bottom of portage RSF	Fox	1	Dead	Fanny Laporte	Martin Theriault	Monitored the area
2018-04-26	11:30:00 AM	Construction - Amaruq	parking lot	Fox	1	Dead	Normand C	Eric L	Monitored the area
2018-04-26	3:30:00 PM	Meadowbank	at the bottom of Portage RSF	Wolf	1	Eating	Kevin Champagne	FL & MT	Monitored the area
2018-04-28	4:30:00 PM	Environment Meadowbank		Wolverine	1	Running	Martin Theriault		No action required
2018-04-29	8:00:00 AM	Meadowbank	Saddle dam 3	Wolverine	1	Running	engineering		No action required
2018-04-30	11:00:00 AM	Meadowbank	km 78 east side	Wolf	1	Unknown	Tim Chapple		No action required

MAY, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-05-01	7:30:00 AM	Meadowbank		Caribou			Fanny Laporte	Martin Kreelak	Monitored the area
2018-05-02	7:30:00 AM	Meadowbank		Caribou			Fanny Laporte		Monitored the area
2018-05-02	8:00:00 PM	Meadowbank	EMR hill	Wolverine	1		night shift worker		No action required
2018-05-03	7:00:00 AM	Amaruq Road - Meadowbank	Amaruq Road km 0-25	Caribou			Fanny Laporte		Monitored the area
2018-05-04	7:00:00 AM	Meadowbank		Caribou			Fanny Laporte		Monitored the area

2018-05-04	12:00:00 PM	Meadowbank	EMR hill	Caribou	1	Sick or wounded	Fanny Laporte	Roland	Monitored the area
2018-05-04	4:00:00 PM	Meadowbank	km 103, close to EMR	Wolverine	1	Running	Fanny Laporte	Jeff Hart	No action required
2018-05-06	7:00:00 AM	Meadowbank		Caribou			Fanny Laporte	Jeff Hart	Monitored the area
2018-05-07	7:00:00 AM	Meadowbank		Caribou			Fanny Laporte	Jeff Hart KIA	
2018-05-07	9:30:00 AM	Meadowbank	KM 16 west side 50m	Wolf	2	Eating	Fanny Laporte	Jeff Hart	No action required
2018-05-13	4:30:00 PM	Amaruq	waste management area	Fox	1	Walking	Marie-Josée B.		Monitored the area
2018-05-14	3:00:00 PM	Amaruq Road - Meadowbank	Km 19	Wolf	3	Observing	Stephane B.		
2018-05-19	6:30:00 AM	Amaruq	Waste management area	Fox	1	Eating	D.I		Monitored the area
2018-05-23	2:00:00 PM	Meadowbank	Over Vault Pit	Peregrine falcon	1	Flying	Patrick Ahern		No action required
2018-05-23	4:00:00 AM	Amaruq	Waste management area	Fox	1	Walking	Pierre-Luc D.		
2018-05-24	1:00:00 PM	Meadowbank	km 105	Caribou	15	Resting	Road operator		No action required
2018-05-24	1:30:00 PM	Meadowbank	Bridge 26.1	Rough legged hawk	1	Immobile	Patrick Ahern		No action required
2018-05-24	8:00:00 PM	Meadowbank	Km 77	Wolf	1	Unknown	Q-Sana Driver		No action required
2018-05-24	5:00:00 AM	Amaruq	WTP Dome	Fox	1	Walking	Pierre-Luc D.		
2018-05-25	9:00:00 AM	Meadowbank	km 101 going west	Wolverine	1	Walking	Road operator		No action required
2018-05-25	4:30:00 PM	Meadowbank	RSF West	Wolverine	3	Unknown	Patrick Ahern		No action required
2018-05-25	5:00:00 PM	Meadowbank	Vault Kitchen	Fox	1	Crossing the road	Patrick Ahern	Gary Wong	No action required
2018-05-25	11:30:00 PM	Amaruq	Construction office	Fox	1	Walking	Pierre-Luc D.		Monitored the area
2018-05-26	9:30:00 AM	Meadowbank	km 10	Rough legged hawk	2	Flying	Patrick Ahern		No action required
2018-05-27	8:30:00 AM	Meadowbank	Quarry 10	Peregrine falcon	1	Flying	Patrick Ahern		Monitored the area
2018-05-28	4:00:00 AM	Meadowbank	km 5	Musk-ox	5	Immobile	Martin Archambault		
2018-05-29	6:00:00 PM	Meadowbank	vault road on the east side	Rough legged hawk	1	Flying	Fanny Laporte	Tom Thomson	No action required
2018-05-31	3:00:00 PM	Meadowbank	KM 105	Rough legged hawk	1	Flying	Fanny Laporte	Michael Allard	No action required
2018-05-31	4:00:00 PM	Meadowbank	6.5	Rough legged hawk	1	Immobile	Patrick Ahern		No action required

2018-05-31	5:00:00 PM	Meadowbank	EMR hills	Caribou	20	Crossing the road	Dispatch		Monitored the area
2018-05-31	3:00:00 PM	Meadowbank	EMR hill	Sandhill cranes	20	Eating	Fanny Laporte	Michael Buttet Allard	No action required
JUNE, 2018									
Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-06-01	1:30:00 PM	Meadowbank	km 6	Musk-ox	6	Grazing	Patrick Ahern		No action required
2018-06-01	1:30:00 PM	Meadowbank	km 8	Wolf	1	Hunting	Road operator		Monitored the area but no sight
2018-06-02	9:30:00 AM	Meadowbank	south cell	Snow geese	100	Resting	FL	MBA	Deterred. Successful
2018-06-02	11:00:00 AM	Meadowbank	by MB gatehouse	Caribou	30	Resting	Fanny Laporte	Michel angers	Monitored the area
2018-06-05	1:00:00 PM	Meadowbank	113.5	Canada geese	6	Eating	Marilyne Arcand	Patrick Ahern	No action required
2018-06-05	2:00:00 PM	Meadowbank	19	Sandhill cranes	2	Unknown	Marilyne Arcand	Patrick Ahern	No action required
2018-06-05	2:00:00 PM	Meadowbank	4	Musk-ox	6	Unknown	Marilyne Arcand	Patrick Ahern	Monitored the area
2018-06-06		Meadowbank	KM 14	Caribou	18	Grazing	Marilyne Arcand		
2018-06-06		Meadowbank	3	Canada geese	8	Eating	Marilyne Arcand		
2018-06-06		Meadowbank	KM 3	Musk-ox	7	Sleeping	Marilyne Arcand		
2018-06-07	8:00:00 AM	Amaruq Road - Meadowbank	km 60	Caribou	52	Grazing	Paul S.		Monitored the area
2018-06-07	11:00:00 AM	Amaruq	Whale Tale Lake	Caribou	6	Walking	Stephane B.		Monitored the area
2018-06-07	11:30:00 AM	Amaruq	Waste management area	Fox	1	Walking	Brenda Q.	Marie-Josée B.	Monitored the area
2018-06-07		Meadowbank	KM 4,5	Caribou	33	Walking	Marilyne Arcand		
2018-06-07		Meadowbank	3	Snow geese	28	Unknown	Marilyne Arcand		
2018-06-07		Meadowbank	KM 3	Musk-ox	7	Sleeping	Marilyne Arcand		
2018-06-08	9:00:00 AM	Amaruq Road - Meadowbank	km 51	Musk-ox	8	Grazing	Paul S.		
2018-06-08	8:00:00 AM	Meadowbank	KM 2	Caribou	15	Grazing	Marilyne Arcand		
2018-06-08	8:30:00 AM	Meadowbank	KM 3.5	Musk-ox	7	Resting	Marilyne Arcand		
2018-06-08	9:00:00 AM	Meadowbank	KM 12	Caribou	18	Walking	Marilyne Arcand		
2018-06-08	4:00:00 PM	Meadowbank	KM 45	Fox	1	Walking	Marilyne Arcand		
2018-06-08		Meadowbank	KM 1	Caribou	30	Grazing	Marilyne Arcand		
2018-06-10	7:00:00 AM	Meadowbank	North cell	Grizzly	3	Walking	Nelson Bell		Monitored the area
2018-06-10	8:00:00 AM	Meadowbank	SANA area	Wolverine	1	Walking	mechanic		
2018-06-10	9:00:00 AM	Meadowbank	road to Vault camp	Grizzly	3	Walking	drillers		Monitored the area
2018-06-10	10:30:00 AM	Amaruq Road - Meadowbank	km 63	Caribou	12	Grazing	Gill H.		Monitored the area

2018-06-10	9:30:00 AM	Meadowbank	KM 13	Caribou	32	Grazing	Marilyne Arcand		
2018-06-10	1:00:00 PM	Meadowbank	KM 22	Caribou	6	Grazing	Marilyne Arcand		
2018-06-10	4:00:00 PM	Meadowbank	KM 35	Snow geese	17	Unknown	Marilyne Arcand		
2018-06-11	7:00:00 AM	Meadowbank	reclaim barge	Wolverine	1	Walking	Nelson Bell		Monitored the area
2018-06-11	8:00:00 AM	Amaruq	Waste management area	Fox	1	Walking	Kevin M.		Monitored the area
2018-06-11		Meadowbank	KM 64	Caribou	13	Grazing	Marilyne Arcand		
2018-06-11		Meadowbank	KM 49	Musk-ox	7	Grazing	Marilyne Arcand		
2018-06-11		Meadowbank	KM 32	Caribou	20	Walking	Marilyne Arcand		
2018-06-11		Meadowbank	KM 112	Musk-ox	15	Resting	Marilyne Arcand		
2018-06-14	1:00:00 PM	Meadowbank	Km 50	Caribou	6	Crossing the road	Wamy Kreelak		
2018-06-14	3:30:00 PM	Amaruq	Near Pad H	Caribou	22	Grazing	Eric J.	Marie-Josée B.	Monitored the area
2018-06-14		Meadowbank	KM 15	Caribou	40	Grazing	Marilyne Arcand		
2018-06-15	9:30:00 AM	Amaruq	Near pad H	Caribou	8	Grazing	Marie-Josée B.	Jean-Francois L.	Monitored the area
2018-06-15	9:30:00 PM	Meadowbank	Km 38	Caribou	11	Walking	Pick up 99		
2018-06-15		Meadowbank	KM	Caribou	8	Walking	Marilyne Arcand		
2018-06-16	8:00:00 AM	Meadowbank	Km 2 road to Vault	Musk-ox	8	Grazing	Jamie K		
2018-06-16	8:00:00 AM	Mine Meadowbank	Vault transit pad towards Amaruq	Caribou	21	Resting	Jamie K		
2018-06-16	8:00:00 AM	Meadowbank	north end of airstrip	Wolverine	1	Running	Timoth Chapple		
2018-06-16	8:30:00 AM	Meadowbank	Km 87	Caribou	6	Crossing the road	Kyle M		
2018-06-16		Meadowbank	111	Musk-ox	15	Resting	Marilyne Arcand		
2018-06-16		Meadowbank	KM 15	Caribou	19	Sleeping	Marilyne Arcand		
2018-06-16		Meadowbank	KM 1	Caribou	30	Grazing	Marilyne Arcand		
2018-06-17		Meadowbank	KM 51	Musk-ox	6	Resting	Marilyne Arcand		
2018-06-17		Meadowbank	KM 25	Caribou	4	Grazing	Marilyne Arcand		
2018-06-17		Meadowbank	KM 8	Musk-ox	6	Grazing	Marilyne Arcand		
2018-06-18		Meadowbank	114	Caribou	15	Unknown	Marilyne Arcand		
2018-06-18		Meadowbank	KM 11	Duck	6	Swimming	Marilyne Arcand		
2018-06-18		Meadowbank	KM 11	Caribou	5	Walking	Marilyne Arcand		
2018-06-18		Meadowbank	113.5	Caribou	3	Grazing	Marilyne Arcand		
2018-06-20	11:00:00 AM	Meadowbank	Landfill	Wolverine	3		Surveyor		Monitored the area
2018-06-20	2:00:00 PM	Meadowbank	KM 73 west	Caribou	10		Kyle McLean		No action required
2018-06-21	10:00:00 AM	Meadowbank	KM 82 west side	Caribou	10	Unknown	Kyle Mclean		No action required
2018-06-21	10:00:00 AM	Meadowbank	KM 52 west side	Wolf	1	Walking	Paul Boudreau		No action required

2018-06-21	1:30:00 PM	Meadowbank	Near Baker Lake heading west ward	Caribou	5	Walking	Mark Nukik		No action required
2018-06-21	4:00:00 PM	Amaruq Road - Meadowbank	KM 24	Bald eagle	1	Resting	Andre Rouleau		No action required
2018-06-21	4:00:00 PM	Amaruq Road - Meadowbank	KM 40	Wolf	1	Walking	Kitchen driver		No action required
2018-06-22	7:30:00 AM	Meadowbank	Near tailing road	Wolverine	1	Walking	Byron Gillis		No action required
2018-06-22	10:00:00 AM	Meadowbank	KM 35	Musk-ox	2	Unknown	Victor U.		No action required
2018-06-22	10:30:00 AM	Meadowbank	KM 59	Caribou	3	Unknown	Victor U.		No action required
2018-06-22	11:00:00 AM	Meadowbank	KM 67	Caribou	1	Unknown	Victor U.		No action required
2018-06-22	12:30:00 PM	Meadowbank	KM 35 west side	Musk-ox	2	Unknown	Seam Uquqtuq		No action required
2018-06-22	1:00:00 PM	Meadowbank	KM 74 east side	Musk-ox	1	Unknown	Kyle Mclean		No action required
2018-06-22	1:30:00 PM	Meadowbank	KM 95 Quarry 21	Peregrine falcon	2	Flying	Victor U.	Laurence Archambault	No action required
2018-06-22	2:00:00 PM	Meadowbank	KM 73	Musk-ox	5	Grazing	Victor U.	Laurence Archambault	No action required
2018-06-23	10:00:00 AM	Amaruq	Maintenance shop	Fox	1	Eating	Unknown		No action required
2018-06-24	7:00:00 AM	Meadowbank	km 63, west side	Caribou	7	Walking	Reggie Harris		No action required
2018-06-24	12:00:00 PM	Meadowbank	KM 25 west side	Caribou	9	Unknown	Reggie Harris		No action required
2018-06-24	2:00:00 PM	Meadowbank	KM 99 est side	Musk-ox	1	Unknown	Roland Tarraq		No action required
2018-06-24	10:30:00 AM	Meadowbank	km 19	Wolverine	1	Running	road crew		Monitored the area
2018-06-24	2:00:00 PM	Meadowbank	km 24	Caribou	5	Immobile	road crew		
2018-06-25	6:30:00 AM	Meadowbank	Nova camp wing S	Fox	2	Unknown	Yannick Lalonde		Monitored the area
2018-06-25	7:00:00 AM	Meadowbank	Switch back west side	Wolf	1	Walking	Kyle Mclean		No action required
2018-06-25	8:00:00 AM	Meadowbank	KM 83/84 west side	Musk-ox	1	Unknown	Kyle Mclean		No action required
2018-06-25	1:00:00 PM	Meadowbank	KM 67 west side	Caribou	4	Unknown	Sean Uquqtuq		No action required
2018-06-25	2:00:00 PM	Meadowbank	vault road, west side 200m	Musk-ox	1	Grazing	Fanny Laporte	Laurence Archambault	Monitored the area
2018-06-26	11:00:00 AM	Meadowbank	Bridge 8	Wolf	1	Walking	David Kautaq		No action required
2018-06-27	7:30:00 AM	Amaruq	Waste management area	Arctic hare	1	Running	Jean-Francois Labbe		No action required
2018-06-27	9:30:00 AM	Amaruq	Maintenance shop	Fox	1	Running	Jean-Francois Labbe		No action required
2018-06-27	8:30:00 AM	Meadowbank	km 15	Caribou	15	Crossing the road	road crew		Closed the road
2018-06-27	2:30:00 PM	Meadowbank	km 7.5	Musk-ox	1	Grazing	road crew		
2018-06-27	3:00:00 PM	Meadowbank	km 17	Musk-ox	2	Grazing	road crew		

2018-06-28	8:30:00 AM	Meadowbank	Km 7, 200m west of the road	Musk-ox	21	Walking	Patrick Ahern		
2018-06-28	9:00:00 AM	Meadowbank	km 18	Caribou	8	Crossing the road	Road Crew		Monitored the area
2018-06-28	6:00:00 AM	Meadowbank	km 6	Musk-ox	18	Grazing	road crew		
2018-06-29	10:30:00 AM	Meadowbank	2nd bench	Arctic hare	1	Immobile	FL	MBA	No action required
2018-06-30	8:00:00 PM	Meadowbank	km 5	Fox	5	Playing	road crew		
JULY, 2018									
Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-07-01	11:30:00 AM	Meadowbank	KM 32	Wolverine	1	Crossing the road	Jason Laforce		No action required
2018-07-01	7:00:00 PM	Meadowbank	KM 26	Wolf	1	Crossing the road	Jason Laforce		
2018-07-01	12:00:00 PM	Meadowbank	km 32	Wolverine	1	Crossing the road	Road Crew		
2018-07-01	7:00:00 PM	Meadowbank	km 26	Wolf	1	Crossing the road	Road Crew		
2018-07-02	1:00:00 PM	Amaruq Road - Meadowbank	KM 58	Rough legged hawk	1	Flying	FL	PA	No action required
2018-07-02	1:30:00 PM	Amaruq Road - Meadowbank	KM 36	Musk-ox	16	Grazing	FL	PA	Monitored the area
2018-07-02	2:00:00 PM	Amaruq Road - Meadowbank	KM8 west 400m	Caribou	3	Walking	FL	PA	No action required
2018-07-02	2:30:00 PM	Meadowbank	KM 7	Peregrine falcon	2	Flying	FL	PA	No action required
2018-07-02	7:00:00 AM	Meadowbank	KM 17	Caribou	1	Walking	Jason Laforce		
2018-07-02	7:00:00 AM	Meadowbank	km17	Caribou	1		Road Crew		
2018-07-03	11:00:00 AM	Meadowbank	KM 17	Caribou	6	Walking	Jason Laforce		
2018-07-03	11:00:00 PM	Meadowbank	KM 17	Musk-ox	1	Eating	Jason Laforce		
2018-07-03	11:00:00 PM	Meadowbank	KM 17	Caribou	1	Eating	Jason Laforce		
2018-07-03	11:00:00 AM	Meadowbank	KM17	Caribou	6		Road Crew		
2018-07-03	11:00:00 PM	Meadowbank	km 17	Musk-ox	1	Running	Road Crew		
2018-07-04	11:00:00 AM	Meadowbank	KM 17	Musk-ox	1	Eating	Jason Laforce		No action required
2018-07-04	7:00:00 PM	Meadowbank	KM 18	Musk-ox	1	Eating	Jason Laforce		No action required
2018-07-04	11:00:00 AM	Meadowbank	km 18	Musk-ox	1	Unknown	Road Crew		
2018-07-05	9:00:00 AM	Meadowbank		Wolverine	1	Walking	Richard Pouliot		
2018-07-05	6:30:00 AM	Meadowbank	Km 20	Musk-ox	1	Eating	Jason Laforce		No action required

2018-07-05	6:30:00 AM	Meadowbank	km 20	Musk-ox	1	Eating	Road Crew		
2018-07-06	6:30:00 PM	Amaruq Road - Meadowbank	km 61	Musk-ox	1	Grazing	Marie-Josée B.		Monitored the area
2018-07-07	10:00:00 AM	Meadowbank	KM 24	Fox	1	Hunting	Marilyne Arcand		No action required
2018-07-07	11:30:00 AM	Meadowbank	KM 42	Caribou	1	Sick or wounded	Marilyne Arcand		Monitored the area
2018-07-07	2:30:00 PM	Meadowbank	KM 63	Musk-ox	1	Grazing	Marilyne Arcand		
2018-07-07	12:00:00 AM	Meadowbank	KM 20	Musk-ox	1	Eating	Jason Laforce		No action required
2018-07-07	12:00:00 AM	Meadowbank	km20	Musk-ox	1	Grazing	Road Crew		
2018-07-08	2:30:00 PM	Meadowbank	KM 20	Musk-ox	1	Grazing	Marilyne Arcand		
2018-07-08	6:00:00 PM	Meadowbank	Km 5	Musk-ox	2	Crossing the road	Marilyne Arcand		
2018-07-08	8:00:00 AM	Meadowbank	KM 11	Musk-ox	1	Eating	Jason Laforce		
2018-07-08	8:00:00 AM	Meadowbank	km11	Musk-ox	1	Grazing	Road Crew		
2018-07-09	10:30:00 AM	Meadowbank	KM 12	Caribou	1	Crossing the road	Marilyne Arcand		
2018-07-09	11:00:00 AM	Meadowbank	KM 22	Duck	6	Swimming	Marilyne Arcand		
2018-07-09	7:00:00 AM	Meadowbank	km23	Caribou	3	Crossing the road	Road Crew		
2018-07-09	11:00:00 AM	Meadowbank	km20	Caribou	1	Grazing	Road Crew		
2018-07-09	11:30:00 AM	Meadowbank	km 20	Musk-ox	1	Walking	Road Crew		
2018-07-09	7:00:00 PM	Meadowbank	km23	Musk-ox	1	Walking	Road Crew		
2018-07-10	9:30:00 AM	Meadowbank	KM19	Musk-ox	1	Resting	Marilyne Arcand		
2018-07-10	2:30:00 PM	Meadowbank	Esker 1 -KM17	Caribou	1	Walking	Marilyne Arcand		
2018-07-10	2:00:00 AM	Meadowbank	km26	Caribou	1	Walking	Road Crew		
2018-07-10	10:30:00 AM	Meadowbank	km24	Caribou	2	Walking	Road Crew		
2018-07-11	9:00:00 AM	Meadowbank	KM 29	Musk-ox	2	Grazing	Marilyne Arcand		
2018-07-11	9:30:00 AM	Meadowbank	KM 40	Wolf	1	Walking	Marilyne Arcand		
2018-07-11	4:00:00 PM	Meadowbank	KM 18.5	Musk-ox	1	Unknown	Marilyne Arcand		
2018-07-11	7:00:00 PM	Meadowbank	km6	Squirrel	2	Running	Road Crew		
2018-07-12	1:00:00 PM	Amaruq Road - Meadowbank	kilometer 45	Musk-ox	1	Observing	Jessica B.	Gill H.	Monitored the area
2018-07-12	4:00:00 PM	Meadowbank	Km 18.5	Musk-ox	1	Eating	Marilyne Arcand		No action required
2018-07-12	1:00:00 AM	Meadowbank	km 24, 400m from the road	Musk-ox	4	Unknown	Road Crew		
2018-07-12	6:00:00 AM	Meadowbank	km10	Caribou	1	Crossing the road	Road Crew		

2018-07-12	3:00:00 PM	Meadowbank	km27, 200m frmo road	Musk-ox	4	Unknown	Road Crew		
2018-07-13	10:00:00 AM	Meadowbank	km28	Musk-ox	9	Unknown	Road Crew		
2018-07-13		Amaruq	km 1.5	Wolverine	1	Running	Martin Theriault		No action required
2018-07-14	9:30:00 AM	Amaruq	Maintenance	Fox	1	Walking	Jean-Francois Labbe		No action required
2018-07-14	10:30:00 AM	Amaruq	Orbit Garage	Fox	1	Walking	Jacqueline Holly F.	Jean-Francois L.	Monitored the area
2018-07-14	4:30:00 PM	Meadowbank	KM 17.5	Musk-ox	1	Flying	Marilyne Arcand		No action required
2018-07-14	4:30:00 PM	Meadowbank	KM 17.5	Rough legged hawk	1	Flying	Marilyne Arcand		No action required
2018-07-14	3:00:00 AM	Meadowbank	km37	Wolf	1	Walking	Road Crew		
2018-07-15	2:00:00 PM	Meadowbank	KM 39.5	Wolf	1	Walking	Marilyne Arcand		
2018-07-15	2:30:00 PM	Meadowbank	Km 16	Musk-ox	1	Eating	Marilyne Arcand		No action required
2018-07-15	2:30:00 PM	Meadowbank	KM 21.5	Rough legged hawk	1	Flying	Marilyne Arcand		No action required
2018-07-15	6:30:00 PM	Meadowbank	Km 11	Musk-ox	6	Grazing	Karen Y		
2018-07-15	7:00:00 PM	Meadowbank	Km 16 East side	Musk-ox	6	Grazing	Karen Y		
2018-07-15	8:00:00 PM	Meadowbank	Km 48 West side	Fox	4	Walking	Karen Y		
2018-07-15	8:30:00 PM	Meadowbank	Km 92 West side	Musk-ox	16	Grazing	Karen Y		
2018-07-15	7:30:00 AM	Meadowbank	km16	Caribou	3	Crossing the road	Road Crew		
2018-07-15		Amaruq	km 1.5	Caribou	6		reported by mine dispatch		Monitored the area
2018-07-16	8:30:00 AM	Meadowbank		Caribou	1	Resting	Mine Dispatch		Monitored the area
2018-07-16	11:30:00 AM	Meadowbank	KM 18	Musk-ox	1	Eating	Marilyne Arcand	Michel Ordaz R.	No action required
2018-07-16	11:30:00 AM	Meadowbank	KM 18	Fox	1	Walking	Marilyne Arcand	Michel Ordaz R.	
2018-07-16	11:30:00 AM	Meadowbank	17.5	Musk-ox	1	Eating	Marilyne Arcand	Michel Ordaz R.	
2018-07-16	12:00:00 PM	Meadowbank	KM 24	Rough legged hawk	1	Flying	Marilyne Arcand	Michel Ordaz R.	No action required
2018-07-16	12:30:00 PM	Meadowbank	KM 37	Musk-ox	12	Walking	Marilyne Arcand	Michel Ordaz R.	No action required
2018-07-16	4:00:00 PM	Meadowbank	KM 20	Arctic hare	1	Unknown	Marilyne Arcand	Michel Ordaz R.	No action required
2018-07-16	7:00:00 PM	Meadowbank	km25	Caribou	1	Running	Road Crew		
2018-07-17	1:00:00 PM	Meadowbank	End of west road	Caribou	1	Walking	Laurence Archambault	Michelle Ordaz Rivero	Monitored the area
2018-07-17	4:00:00 PM	Meadowbank	Near EMR - KM 104 east side	Musk-ox	9	Grazing	Laurence Archambault	Michelle Ordaz Rivero	No action required
2018-07-17	10:00:00 PM	Meadowbank	Quarry 9	Caribou	1	Unknown	Ronald Falardeau		No action required
2018-07-17	9:30:00 AM	Meadowbank	km19	Musk-ox	1	Walking	Road Crew		

2018-07-18	9:00:00 AM	Amaruq	Waste management area	Fox	1	Eating	Jean-François Labbé	Bernard Putulik	No action required
2018-07-18	9:00:00 AM	Meadowbank	km 30, west 200m	Wolf	1	Walking	road crew		Monitored the area but no sight
2018-07-18	10:00:00 AM	Meadowbank	km 24	Caribou	1	Crossing the road	Patrick Ahern		Monitored the area
2018-07-18	1:00:00 PM	Meadowbank	km 42	Musk-ox	1	Grazing	Patrick Ahern		
2018-07-18	2:00:00 PM	Meadowbank	km 33.3, west 150m	Caribou	1	Grazing	Patrick Ahern		
2018-07-18	2:30:00 PM	Meadowbank	km 26.5, east 100m	Caribou	1	Walking	Patrick Ahern		
2018-07-18	3:00:00 PM	Meadowbank	km 18.5, west 100	Musk-ox	1	Grazing	Patrick Ahern		
2018-07-18	11:00:00 PM	Meadowbank	Baker Lake gate house	Caribou	1	Walking	Joseph Tunguaq		No action required
2018-07-18	11:30:00 PM	Meadowbank	KM 51 - East side	Wolf	2	Walking	Ronald Falardeau		No action required
2018-07-18	9:00:00 AM	Meadowbank		Peregrine falcon			Fanny Laporte	Vania	Monitored the area
2018-07-18	4:30:00 PM	Meadowbank	KM 19	Musk-ox	16	Grazing	Fanny Laporte	Vania	No action required
2018-07-18	5:00:00 PM	Meadowbank	around 40	Musk-ox	6	Running	FL	VO	No action required
2018-07-18	3:00:00 AM	Meadowbank	km 9	Caribou	1	Resting	Road Crew		
2018-07-18	11:00:00 AM	Meadowbank	km19	Musk-ox	1	Sleeping	Road Crew		
2018-07-19	10:00:00 AM	Meadowbank	Vault waste dump phase 1 ramp	Caribou	2	Walking	Martin Theriault		Monitored the area
2018-07-19	11:00:00 AM	Meadowbank		Caribou	1	Walking	Martin Theriault		Monitored the area
2018-07-19	3:00:00 AM	Meadowbank	km 10	Squirrel	1	Running	Road Crew		
2018-07-19	7:00:00 PM	Meadowbank	km3	Caribou	1	Walking	Road Crew		
2018-07-19	8:00:00 PM	Meadowbank	km2.5	Musk-ox	10	Resting	Road Crew		
2018-07-20	8:30:00 PM	Meadowbank	KM 32	Caribou	1	Crossing the road	Mark Nukik		No action required
2018-07-20	9:00:00 PM	Meadowbank	Quarry 9	Wolverine	1	Running	Ronald Falardeau		No action required
2018-07-20	7:00:00 PM	Meadowbank	km18	Musk-ox	2	Walking	Road Crew		
2018-07-21	7:30:00 AM	Meadowbank	Km 105	Musk-ox	10	Grazing	E&I operator		Monitored the area
2018-07-21	1:30:00 PM	Meadowbank	Lake west	Tundra swan	1	Immobile	Fanny Laporte	Martin Theriault	No action required
2018-07-21	2:00:00 PM	Meadowbank	end of airstrip	Musk-ox	2	Grazing	FL	MT	No action required
2018-07-21	3:00:00 PM	Meadowbank	Tailings north cell	Caribou	1	Resting	Martin Thériault	Fanny Laporte	No action required
2018-07-21	11:30:00 PM	Meadowbank	KM-50 - West ward	Caribou	1	Unknown	Ronald Falardeau		No action required
2018-07-21	9:30:00 AM	Meadowbank	landfill	Wolverine	1	Walking	FL	LA	Monitored the area
2018-07-22	3:00:00 AM	Meadowbank	km 17, west side 30m	Musk-ox	1	Grazing	Patrick Ahern		No action required
2018-07-22	8:00:00 AM	Meadowbank	One lane Vault Road - East side	Caribou	1	Grazing	Martin Thériault	Laurence Archambault	Monitored the area

2018-07-22	1:30:00 PM	Amaruq	Close to lake A55	Musk-ox	2	Running	Christian Deschene		No action required
2018-07-22	3:00:00 PM	Meadowbank	km 16.9, east 10m	Caribou	1	Grazing	Patrick Ahern		No action required
2018-07-22	3:30:00 PM	Meadowbank	km 11	Caribou	1	Walking	Patrick Ahern		No action required
2018-07-22	4:00:00 PM	Meadowbank	km 3, west 20m	Musk-ox	11	Grazing	Patrick Ahern		Monitored the area
2018-07-22	9:30:00 PM	Meadowbank	north of BL gatehouse	Musk-ox	6	Grazing	Dispatch		No action required
2018-07-22	11:00:00 PM	Meadowbank	Quarry 9	Caribou	1	Sick or wounded	Ron Falardeau		Monitored the area
2018-07-23	5:00:00 PM	Meadowbank	north cell capping	Caribou	1	Walking	Patrick Ahern	Martin Theriault	Monitored the area
2018-07-23	10:30:00 AM	Meadowbank	by fresh water	Caribou	3	Immobile	FL	MT	Monitored the area
2018-07-24	1:30:00 PM	Meadowbank	km 56, 120m East of road	Musk-ox	2	Grazing	Patrick Ahern		No action required
2018-07-24	10:30:00 AM	Meadowbank	by amq road	Caribou	2	Grazing	FL	LA	Monitored the area
2018-07-24	10:30:00 AM	Meadowbank	west side	Musk-ox	1		IC		Monitored the area
2018-07-25	5:00:00 AM	Meadowbank	Vault RSF	Caribou	1	Resting	Patrick Ahern		Monitored the area but no sight
2018-07-25	10:00:00 AM	Meadowbank	km 0.7 by the road	Caribou	1	Sleeping	Patrick Ahern		Monitored the area
2018-07-25	11:00:00 AM	Meadowbank	on the road by old sana	Caribou	1	Crossing the road	Dispatch		Monitored the area
2018-07-25	3:00:00 PM	Meadowbank	km 106 west side 300 m	Musk-ox	12	Grazing	FL	LA	Monitored the area
2018-07-26	3:30:00 AM	Meadowbank	by east diversion ditches	Musk-ox	6	Grazing	Pat Ahern		Monitored the area
2018-07-26	8:00:00 AM	Meadowbank	km 1	Musk-ox	2	Grazing	Patrick Ahern		No action required
2018-07-26	10:00:00 AM	Meadowbank	km 10	Caribou	1	Crossing the road	Patrick Ahern		Monitored the area
2018-07-26	10:30:00 AM	Meadowbank	Km 108	Musk-ox	10	Grazing	Dispatch		Monitored the area
2018-07-26	10:30:00 AM	Meadowbank	NP1 culvert by sana old pad	Caribou	1	Crossing the road	Mine operator		Monitored the area
2018-07-26	3:00:00 PM	Meadowbank	KM 54	Caribou	1		Clinton AFS driver		No action required
2018-07-26	4:30:00 PM	Meadowbank	Landfill	Wolverine	1	Running	Brian Ikoie		Monitored the area but no sight
2018-07-27	9:30:00 AM	Amaruq	AMQ road KM 8.5 150 W	Musk-ox	1	Grazing	Fanny L.		Monitored the area
2018-07-27	9:30:00 AM	Amaruq	AMQ road km 15 - 300m W	Musk-ox	2	Grazing	FL		Monitored the area

2018-07-27	10:00:00 AM	Amaruq	AMQ road KM 29	Rough legged hawk	1	Flying	FL		Monitored the area
2018-07-27	11:00:00 AM	Amaruq	AMQ road Km 59	Musk-ox	12	Grazing	FL		Monitored the area
2018-07-27	11:00:00 AM	Amaruq	AMQ road KM 49	Rough legged hawk	1	Flying	FL		Monitored the area
2018-07-27	1:00:00 PM	Amaruq	AMQ road KM 60	Canada geese	4	Crossing the road	FL		Monitored the area
2018-07-27	2:00:00 PM	Amaruq	AMQ road KM 18 600m E	Musk-ox	1	Grazing	FL		Monitored the area
2018-07-27	5:00:00 PM	Meadowbank	km 50, east 400m	Musk-ox	20	Running	Patick Ahern	Road crew	Monitored the area
2018-07-29	7:00:00 PM	Meadowbank	KM 8	Musk-ox	14	Sleeping	Marilyne Arcand		No action required
2018-07-29	7:00:00 PM	Meadowbank	km 8	Musk-ox	14	Sleeping	Road Crew		No action required
2018-07-29	7:00:00 AM	Meadowbank	km8	Musk-ox	14	Sleeping	Road Crew		
2018-07-30	11:00:00 AM	Meadowbank	Km 49	Musk-ox	2	Crossing the road	Pck 49 driver		Monitored the area
2018-07-30	11:00:00 AM	Meadowbank	KM 82	Wolf	2	Walking	PCK 89 driver		No action required
2018-07-30	8:30:00 AM	Meadowbank	KM 46 East 200 m	Musk-ox	20	Grazing	FL	PA	Monitored the area
2018-07-30	8:30:00 PM	Meadowbank	KM 53 East 200m	Musk-ox	15	Grazing	FL	PA	Monitored the area
2018-07-31	8:30:00 AM	Meadowbank	by EMR hill- 3rd portage	Tundra swan	1	Swimming	FL	MBA	No action required
2018-07-31	8:30:00 AM	Meadowbank	by airstrip	Caribou	1	Walking	Fanny Laporte	Mike Butet Allard	Monitored the area
2018-07-31	2:00:00 PM	Meadowbank	KM 11	Musk-ox	11	Eating	Roch Chabot		No action required
2018-07-31	2:00:00 PM	Meadowbank	km 11	Musk-ox	11	Grazing	Road Crew		

AUGUST, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-08-02	4:30:00 AM	Meadowbank	Km 49	Musk-ox	30	Walking	road crew		No action required
2018-08-02	7:30:00 AM	Meadowbank	North cell capping	Wolf	2	Walking	Mario		No action required
2018-08-02	12:30:00 AM	Meadowbank	KM 36	Wolf	2	Walking	Roch Chabot		No action required
2018-08-02	2:00:00 PM	Meadowbank	km 36	Wolf	2	Walking	Road Crew		
2018-08-03	11:00:00 AM	Meadowbank	Km 16	Musk-ox	1	Eating	Roch Chabot		No action required
2018-08-03	2:00:00 PM	Meadowbank	KM 25	Caribou	1	Crossing the road	Roch Chabot		No action required
2018-08-03	5:30:00 PM	Meadowbank	KM 6	Musk-ox	2	Eating	Roch Chabot		No action required
2018-08-03	2:00:00 PM	Meadowbank	km 25	Caribou	1	Crossing the road	Road Crew		
2018-08-03	11:00:00 AM	Meadowbank	km 16	Musk-ox	1	Grazing	Road Crew		

2018-08-03	5:30:00 PM	Meadowbank	km6	Musk-ox	2	Grazing	Road Crew		
2018-08-05	4:30:00 AM	Construction - Amaruq	Crusher area	Wolf	1	Walking	Pete H.	Eric P.	Monitored the area
2018-08-05	8:00:00 AM	Meadowbank	EMR hill	Wolf	1	Walking	Michael A	Vannia O	No action required
2018-08-05	4:00:00 PM	Construction - Amaruq	FGL office	Fox	1	Walking	Claude M.		Monitored the area
2018-08-05	11:00:00 PM	Meadowbank	km30	Caribou	1	Crossing the road	Road Crew		
2018-08-06	8:30:00 AM	Meadowbank	Km 93 west side	Wolf	2	Walking	pick up		
2018-08-06	11:00:00 AM	Meadowbank	Km 53 west side	Musk-ox	20	Grazing	security		
2018-08-06	9:00:00 AM	Construction - Amaruq	Whale Tail Dike	Fox	4	Walking	Jean-Francois B.		Monitored the area
2018-08-06	6:30:00 PM	Construction - Amaruq	Pad H	Musk-ox	1	Running	Yannick	Robert B.	Monitored the area
2018-08-07	10:30:00 PM	Meadowbank	km28	Wolf	1	Walking	Road Crew		
2018-08-08	10:30:00 AM	Meadowbank	km24	Caribou	1	Crossing the road	Road Crew		
2018-08-09	9:30:00 AM	Meadowbank	Km 100	Caribou	1	Crossing the road	Kendall M		
2018-08-09	1:30:00 PM	Meadowbank	Km 68 east side	Caribou		Walking	Clinton A		
2018-08-09	2:00:00 PM	Amaruq Road - Meadowbank	Km 30	Musk-ox	6	Eating	Jean-Francois Labbe		No action required
2018-08-09	8:00:00 AM	Amaruq	Behind Warehouse	Ptarmigan	2	Immobile	Marilyne Arcand		Monitored the area
2018-08-09	10:30:00 AM	Amaruq	Around WTP (dike)	Ptarmigan	9	Walking	Marilyne Arcand		Monitored the area
2018-08-09	9:00:00 AM	Construction - Amaruq	Pad H	Fox	2	Playing	Claude M.		
2018-08-09	12:00:00 PM	Meadowbank	km20	Musk-ox	12	Grazing	Road Crew		
2018-08-11	3:30:00 PM	Amaruq Road - Meadowbank	km 35	Musk-ox	1	Grazing	Marie-Josée B.		
2018-08-11	4:00:00 AM	Meadowbank	km38	Bald eagle	1	Eating	Road Crew		
2018-08-12	7:00:00 AM	Construction - Amaruq	Nemo Lake	Caribou	45	Walking	Remi V.	Nicolas T.	Monitored the area
2018-08-12	2:00:00 PM	Amaruq Road - Meadowbank	km 60	Caribou	1	Crossing the road	Marie-Josée B.		
2018-08-12	8:00:00 AM	Amaruq Road - Meadowbank	km 58	Caribou	5	Eating	Jean-Francois Labbe	Marielyn Arcand	No action required
2018-08-12	8:00:00 AM	Amaruq Road - Meadowbank	km 60	Caribou	3	Eating	Jean-Francois Labbe		No action required
2018-08-12	8:30:00 AM	Amaruq Road - Meadowbank	km 57.5	Caribou	5	Eating	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-12	9:00:00 AM	Amaruq Road - Meadowbank	Km 56.5	Caribou	21	Crossing the road	Jean-Francois Labbe	Marilyn Arcand	Closed the road

2018-08-12	9:00:00 AM	Amaruq Road - Meadowbank	km 57.5	Caribou	3	Eating	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-12	9:30:00 AM	Amaruq Road - Meadowbank	Km 55	Caribou	80	Crossing the road	Jean-Francois Labbe	Marilyn Arcand	Closed the road
2018-08-12	10:30:00 AM	Amaruq Road - Meadowbank	Km 52.5	Caribou	17	Walking	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-12	10:30:00 AM	Amaruq Road - Meadowbank	km 49	Caribou	4	Eating	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-12	6:00:00 PM	Amaruq	Close to lake A81	Caribou	2	Eating	Jean-Francois Labbe		No action required
2018-08-12	5:00:00 AM	Meadowbank	km 50	Caribou	400	Grazing	Road Crew		
2018-08-12	6:00:00 PM	Meadowbank	km 54	Caribou	75	Grazing	Road Crew		
2018-08-12	8:00:00 PM	Meadowbank	km17	Wolf	1	Walking	Road Crew		
2018-08-13	9:00:00 AM	Amaruq Road - Meadowbank	km 63	Caribou	12	Walking	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-13	9:30:00 AM	Amaruq Road - Meadowbank	km 60	Caribou	20	Crossing the road	Jean-Francois Labbe	Marilyn Arcand	Closed the road
2018-08-13	9:30:00 AM	Amaruq Road - Meadowbank	km 58	Caribou	140	Walking	Jean-Francois Labbe	Marilyne Arcand	No action required
2018-08-13	10:00:00 AM	Amaruq Road - Meadowbank	Km 56	Caribou	115	Crossing the road	Jean-Francois Labbe	Marilyn Arcand	Closed the road
2018-08-13	10:00:00 AM	Amaruq Road - Meadowbank	km 55	Musk-ox	9	Eating	Jean-Francois Labbe	Marilyne Arcand	No action required
2018-08-13	10:00:00 AM	Amaruq Road - Meadowbank	km 55.5	Caribou	40	Walking	Jean-Francois Labbe	Marilyne Arcand	
2018-08-13	11:00:00 AM	Amaruq Road - Meadowbank	km 40	Musk-ox	3	Walking	Jean-Francois Labbe	Marilyne Arcand	
2018-08-13	11:30:00 AM	Amaruq Road - Meadowbank	km 37	Caribou	60	Running	Jean-Francois Labbe	Marilyne Arcand	Closed the road
2018-08-13	12:30:00 PM	Amaruq Road - Meadowbank	km 50	Caribou	12	Walking	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-13	12:30:00 PM	Amaruq Road - Meadowbank	km 40	Caribou	6	Walking	Jean-Francois Labbe	Marilyn Arcand	Monitored the area
2018-08-15	10:30:00 AM	Meadowbank	km 58	Caribou	56	Walking	Patrick Ahern		Monitored the area
2018-08-15	3:00:00 PM	Meadowbank	km 31	Caribou	1	Crossing the road	Patrick Ahern		No action required
2018-08-16	11:00:00 AM	Meadowbank	km 45	Musk-ox	1	Walking	Patrick Ahern	Larence Archambault	Monitored the area

2018-08-16	12:00:00 PM	Meadowbank	km 58	Caribou	2	Crossing the road	Patrick Ahern	Laurence Archambault	Monitored the area
2018-08-16	7:30:00 PM	Meadowbank	km 28	Caribou	100	Grazing	Road Crew		
2018-08-18	10:00:00 AM	Meadowbank	km 101	Caribou	1	Walking	Isabelle C.		Monitored the area
2018-08-18	10:30:00 AM	Meadowbank	km 102	Sandhill cranes	2	Walking	Isabelle C.		No action required
2018-08-18	1:30:00 AM	Meadowbank	km 42.5	Caribou	2	Grazing	Patrick Ahern		
2018-08-18	9:30:00 AM	Meadowbank	km32.5	Caribou	1	Crossing the road	Patrick Ahern		
2018-08-18	10:00:00 AM	Meadowbank	km35	Caribou	1	Resting	Patrick Ahern		
2018-08-18	11:30:00 AM	Meadowbank	km44.5	Caribou	1	Resting	Patrick Ahern	Denis Gosselin	
2018-08-18	12:00:00 PM	Meadowbank	km22	Caribou	1	Crossing the road	Patrick Ahern		
2018-08-18	12:30:00 PM	Meadowbank	km43	Caribou	3	Crossing the road	Patrick Ahern	Denis Gosselin	
2018-08-18	2:30:00 PM	Meadowbank	km22	Musk-ox	1	Resting	Patrick Ahern		
2018-08-18	3:30:00 PM	Meadowbank	km19	Caribou	1	Crossing the road	Patrick Ahern		Monitored the area
2018-08-19	1:00:00 PM	Meadowbank	km43.5	Caribou	1	Grazing	Patrick Ahern		
2018-08-19	1:30:00 PM	Meadowbank	47	Caribou	3	Walking	Patrick Ahern		
2018-08-19	2:30:00 PM	Meadowbank	km58	Caribou	2	Grazing	Patrick Ahern		
2018-08-19	2:30:00 PM	Meadowbank	km 54	Musk-ox	1	Grazing	Patrick Ahern		
2018-08-19	3:00:00 PM	Meadowbank	km16	Caribou	3	Grazing	Patrick Ahern		
2018-08-19	4:00:00 PM	Meadowbank	km12	Caribou	2	Walking	Patrick Ahern		
2018-08-20	7:30:00 AM	Meadowbank	NP2 north	Wolf	2	Running	Patrick Ahern	Martin Archambault	Monitored the area
2018-08-20	9:00:00 AM	Meadowbank	km25.3	Caribou	1	Crossing the road	Patrick Ahern		
2018-08-21	5:00:00 PM	Meadowbank	km 75	Caribou	800	Crossing the road	Patrick Ahern	Philip (road crew)	Closed the road
2018-08-22	9:00:00 AM	Meadowbank	km86	Caribou	7	Grazing	Patrick Ahern		Monitored the area
2018-08-22	10:00:00 PM	Meadowbank	km 36, west 500m	Grizzly	1	Walking	Road Crew		
2018-08-23	11:30:00 AM	Meadowbank	km 73	Bald eagle	1	Flying	Patrick Ahern		Monitored the area
2018-08-24	6:30:00 AM	Meadowbank	km01, east	Musk-ox	8	Grazing	Road Crew		
2018-08-26	7:30:00 AM	Meadowbank	km 54 east	Grizzly	1	Walking	Road Crew		
2018-08-26	2:00:00 AM	Meadowbank	km 60	Caribou	2	Walking	Patrick Ahern	Isabelle Couture	
2018-08-26	10:30:00 AM	Meadowbank	km 11, east 200m	Caribou	3	Walking	Patrick Ahern	Isabelle Couture	
2018-08-26	11:00:00 AM	Meadowbank	km 24	Caribou	2	Crossing the road	Patrick Ahern	Isabelle Couture	Monitored the area

2018-08-26	11:00:00 AM	Meadowbank	km 15.5, east 800	Snow geese	400	Resting	Patrick Ahern	Isabelle Couture	
2018-08-26	11:00:00 AM	Meadowbank	km 12, east 100m	Snow geese	30	Resting	Patrick Ahern	Isabelle Couture	No action required
2018-08-26	12:00:00 PM	Meadowbank	km 61	Caribou	1	Crossing the road	Patrick Ahern	Isabelle Couture	
2018-08-26	12:00:00 PM	Meadowbank	km 54, west 200m	Caribou	1	Crossing the road	Patrick Ahern	Isabelle Couture	Monitored the area
2018-08-26	4:00:00 PM	Meadowbank	km 20	Caribou	1	Crossing the road	Patrick Ahern	Isabelle Couture	Monitored the area
2018-08-27	11:00:00 AM	Meadowbank	Vault transit	Caribou	3	Grazing	Patrick Ahern		Monitored the area
2018-08-27	9:00:00 AM	Meadowbank	km 89	Musk-ox	25	Grazing	Charles Montbriand-Leduc		No action required
SEPTEMBER, 2018									
Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-09-02	11:00:00 AM	Amaruq	Amaruq Road MK 26	Wolf	2	Running	Road crew		No action required
2018-09-05	7:00:00 PM	Amaruq	Amaruq Road KM 10	Caribou	4	Walking	Road crew		No action required
2018-09-06	11:00:00 AM	Amaruq	Amaruq Road KM 25	Caribou	2	Grazing	Road crew		No action required
2018-09-07	11:00:00 AM	Amaruq	Amaruq Road KM 10	Wolverine	1	Crossing the road	Road crew		No action required
2018-09-08	3:30:00 PM	Amaruq	Km 60	Caribou	5	Walking	Jamie K	Bernard P	No action required
2018-09-10	9:30:00 AM	Meadowbank	EMR	Musk-ox	6		Ron Falardeau		Monitored the area
2018-09-10	7:00:00 AM	Amaruq	Amaruq Road KM 15	Wolf	1	Walking	Road crew		No action required
2018-09-12	9:30:00 AM	Meadowbank	KM 17	Caribou	50	Crossing the road	AWAR user/ dispatch		Monitored the area
2018-09-13	8:00:00 AM	Meadowbank	south of EMR hill	Wolverine	1	Walking	Ronald Saute		
2018-09-13	9:00:00 AM	Meadowbank	EMR	Wolverine	1	Walking	Ron Falardeau		Monitored the area but no sight
2018-09-13	10:00:00 AM	Amaruq	Amaruq Road KM 15	Caribou	1	Walking	Road crew		No action required
2018-09-14	7:00:00 AM	Amaruq	Amaruq Road KM 17	Wolf	1	Walking	Road crew		No action required
2018-09-15	3:00:00 PM	Meadowbank	NP-2	Musk-ox	11	Resting	Nelson Bell		No action required
2018-09-15	8:30:00 AM	Meadowbank	km 73	Grizzly	3	Walking	Road Crew		Monitored the area
2018-09-15	11:00:00 AM	Amaruq	Amaruq Road KM 20	Wolf	3	Walking	Road crew		No action required
2018-09-17	4:30:00 PM	Meadowbank	Assay lab	Duck	1	Dead	Isabelle Couture	Patrick Ahern	No action required
2018-09-18	3:30:00 PM	Amaruq	Amaruq Road KM 23	Wolverine	1	Walking	Road crew		No action required
2018-09-19	2:00:00 PM	Amaruq	Amaruq Road KM 6	Caribou	20	Eating	Road crew		No action required
2018-09-20	8:30:00 AM	Meadowbank	behind wing 12	Caribou	1	Walking	Patrick Ahern	Martin Krilak	Monitored the area
2018-09-20	12:30:00 PM	Meadowbank	Assay lab	Duck	1	Dead	Isabelle Couture	Martin Kreelak	No action required

2018-09-21	2:00:00 PM	Meadowbank	KM 71	Caribou	18	Grazing	Victor U.	Charles M-L	No action required
2018-09-21	2:30:00 PM	Meadowbank	KM 70	Caribou	21	Walking	Victor U.	Charles M-L	No action required
2018-09-22	7:00:00 AM	Amaruq	Amaruq Road KM 8	Caribou	300	Walking	Road crew		No action required
2018-09-22	8:00:00 PM	Amaruq	Amaruq Road KM 20	Arctic hare	1	Immobile	Road crew		No action required
2018-09-25	1:00:00 PM	Meadowbank	Km 59	Grizzly	1	Walking	AFS driver		
2018-09-25	1:00:00 PM	Meadowbank	Km 98	Wolverine	1	Eating	AFS driver		
2018-09-25	1:30:00 PM	Meadowbank	Km 102	Wolverine	1	Eating	AFS Driver		
2018-09-25	12:30:00 PM	Meadowbank	Km91	Musk-ox	12	Eating	Victor U.	Isabelle C.	No action required
2018-09-25	12:30:00 PM	Meadowbank	km 91	Musk-ox	1	Eating	Victor U.	Isabelle Couture	
2018-09-25	2:30:00 PM	Meadowbank	Km 69	Wolf	1	Walking	Victor U.	Isabelle C.	No action required
2018-09-25	3:00:00 PM	Meadowbank	Km 44	Fox	1	Walking	Victor U.	Isabelle C.	No action required
2018-09-25	3:00:00 PM	Meadowbank	Km 50	Arctic hare	1	Dead	Victor U.	Isabelle C.	No action required
2018-09-25	3:30:00 PM	Meadowbank	Km 26	Fox	1	Walking	Victor U.	Isabelle C.	No action required
2018-09-26	2:30:00 PM	Amaruq	KM19 AMQ Rd	Caribou	200	Grazing	Tom T		Monitored the area
2018-09-26	1:30:00 PM	Amaruq	Amaruq Road KM 43	Wolf	1	Walking	Road Crew		No action required
2018-09-27	6:30:00 PM	Amaruq	Amaruq Road KM 1.5 to 8	Caribou	500	Eating	road crew		No action required
2018-09-29	10:00:00 AM	Amaruq	Amaruq Road KM 25	Wolf	1	Walking	Road Crew		No action required

OCTOBER, 2018

Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-10-01	6:00:00 AM	Meadowbank	smoke shack and front of Kitchen	Wolverine	1	Observing	Yves Levesque		
2018-10-01	6:30:00 AM	Meadowbank	Geotent area - Core shack	Wolverine	1	Walking	Martin Caza		Deterred. Successful
2018-10-03	5:30:00 PM	Amaruq	AMQ Rd. KM60	Caribou	12	Crossing the road	Tom T		Monitored the area
2018-10-05	2:30:00 PM	Meadowbank	km 33, 100m east	Caribou	1	Sick or wounded	Victor Utatnaq	Patrick Ahern	Monitored the area
2018-10-07	12:30:00 PM	Meadowbank	km 92	Caribou	6	Walking	PEL Driver		
2018-10-09	2:00:00 PM	Meadowbank	km 88, 1km east	Caribou	50	Walking	Patrick Ahern	Jamie Kataluk	
2018-10-11	11:30:00 AM	Amaruq Road - Meadowbank	Km 16	Caribou	37	Eating	Martin Kreealak	Isabelle Couture	No action required
2018-10-12	8:00:00 AM	Amaruq Road - Meadowbank	Km 49	Fox	1	Running	AMQ road user		No action required
2018-10-13	1:00:00 PM	Amaruq Road - Meadowbank	Km 46	Wolf	4	Walking	Road user		No action required

2018-10-14	9:30:00 AM	Amaruq Road - Meadowbank	Km 33	Caribou	3	Walking	Road user		No action required
2018-10-15	12:00:00 AM	Amaruq Road - Meadowbank	Km 46	Wolf	1	Walking	Road user		No action required
2018-10-15	9:00:00 AM	Meadowbank	km 4.8	Wolf	1	Eating	Patrick Ahern		Monitored the area
2018-10-15	10:00:00 AM	Meadowbank	km 5, east 100m	Wolf	1	Sick or wounded	Patrick Ahern	Road crew	Monitored the area
2018-10-16	7:00:00 AM	Meadowbank	Km 64	Wolf	1	Walking	Richard Clarke (AFS's driver)		No action required
2018-10-16	9:00:00 AM	Amaruq	Amaruq Road	Caribou	6	Grazing	Martin Archambault	Nancy Duquet-Harvey	No action required
2018-10-16	5:00:00 PM	Meadowbank	Km 45	Raven	2	Flying	Victor U.	Isabelle C.	No action required
2018-10-17	3:00:00 PM	Meadowbank	Km 94 west	Musk-ox	1	Walking	AFS driver		No action required
2018-10-18	1:30:00 PM	Amaruq Road - Meadowbank	Km 45	Snow owl	1		Martin Kreelak	Isabelle Couture	No action required
2018-10-18	3:00:00 PM	Amaruq Road - Meadowbank	Km 8	Musk-ox	7	Eating	Martin Kreelak	Isabelle Couture	No action required
2018-10-18	4:30:00 PM	Meadowbank		Caribou	60	Eating	Isabelle Couture	Martin Kreelak	Monitored the area
2018-10-20	9:00:00 AM	Meadowbank	Km 91 west 700m	Musk-ox	15	Grazing	FL	CM	Monitored the area
2018-10-20	9:00:00 AM	Meadowbank	KM 92 east 400m	Musk-ox	22	Grazing	FL	CM	Monitored the area
2018-10-20	9:00:00 AM	Meadowbank	Km 94 east 250m	Caribou	6	Grazing	FL	CM	No action required
2018-10-20	9:00:00 AM	Meadowbank	km 94 west 300m	Caribou	1	Walking	FL	CM	No action required
2018-10-20	9:00:00 AM	Meadowbank	km 99 east 100m	Caribou	1	Walking	FL	CM	No action required
2018-10-20	9:30:00 AM	Meadowbank	Km 87 west 500m	Caribou	15	Grazing	FL	CM	Monitored the area
2018-10-20	9:30:00 AM	Meadowbank	Km 89 west 1.5km	Caribou	50	Grazing	FL	CM	Monitored the area
2018-10-22	9:30:00 AM	Meadowbank	km 89	Musk-ox	25	Grazing	Charles Montbriand-Leduc		No action required
2018-10-22	10:00:00 AM	Meadowbank	km76	Caribou	3	Walking	Charles Montbriand-Leduc		Monitored the area but no sight
2018-10-22	10:00:00 AM	Meadowbank	km 80	Caribou	100	Grazing	Charles Montbriand-Leduc		No action required
2018-10-22	1:30:00 PM	Meadowbank	km73	Caribou	35	Walking	Charles Montbriand-Leduc		No action required
2018-10-22	5:30:00 PM	Meadowbank	km 91	Caribou	12	Walking	Charles Montbriand-Leduc		No action required
2018-10-22	6:00:00 PM	Meadowbank	KM 93	Caribou	200	Walking	Charles Montbriand-Leduc		No action required

2018-10-24	10:00:00 AM	Meadowbank	KM66	Wolf	2	Walking	Karen Yip		No action required
2018-10-28	8:30:00 AM	Meadowbank	KM94	Caribou	500	Grazing	Junior K	Charles Montbriand Leduc	Monitored the area
2018-10-28	10:00:00 AM	Meadowbank	km 95	Caribou	200	Grazing	Charles Montbriand-Leduc		No action required
2018-10-31	4:00:00 PM	Meadowbank	Km 1 to 2	Caribou	250	Grazing	Jamie Kataluk		
2018-10-31	3:30:00 PM	Meadowbank		Caribou	1000		Jaime Kataluk		Closed the road
NOVEMBER, 2018									
Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-11-01	2:30:00 PM	Meadowbank	incinerator	Wolverine	1	Running	incinerator operator		Monitored the area
2018-11-02	2:30:00 PM	Meadowbank	km 58	Raven	1	Flying	Victor Utatnaq	Patrick Ahern	No action required
2018-11-02	11:30:00 AM	Meadowbank	km 84	Arctic hare	1	Walking	Victor Utatnaq	Patrick Ahern	No action required
2018-11-02	10:30:00 AM	Meadowbank	km105	Fox	1	Walking	Patrick Ahern	Isabelle couture	No action required
2018-11-02	11:00:00 AM	Meadowbank	East 200m	Caribou	30	Grazing	Patrick Ahern	Isabelle Couture	Monitored the area
2018-11-03	9:30:00 AM	Meadowbank	km 16	Caribou	12	Walking	Patrick Ahern		No action required
2018-11-03	8:30:00 AM	Meadowbank	km14, 150m East	Caribou	60	Walking	Patrick Ahern		Monitored the area
2018-11-05		Meadowbank	TPL	Wolverine	1	Dead	Jamie Kataluk		No action required
2018-11-06	5:00:00 PM	Meadowbank	76	Caribou	50	Eating	Isabelle Couture		No action required
2018-11-07	6:30:00 PM	Amaruq	Carpenter shop	Weasel	1		Fanny Laporte	Bernard Putulik	Monitored the area but no sight
2018-11-08	10:00:00 AM	Amaruq	Kitchen back storage area	Weasel	2	Running	Chirs Ladds	Mathieu Corriveau	Monitored the area but no sight
2018-11-08	12:30:00 PM	Amaruq Road - Meadowbank	km 45, 70m east	Caribou	37	Resting	Martin Krilak	Patrick Ahern	No action required
2018-11-08	2:00:00 PM	Meadowbank AWAR	km 94	Caribou	20	Resting	Isabelle Couture		Monitored the area
2018-11-08	1:00:00 PM	Meadowbank AWAR	km 92	Caribou	200	Resting	Isabelle C.		No action required
2018-11-09	5:30:00 AM	Meadowbank AWAR	Km 75	Caribou	100	Walking	Isabelle Couture		Monitored the area
2018-11-09	5:00:00 PM	Meadowbank AWAR	Km 91	Caribou	120	Grazing	Isabelle Couture		Monitored the area
2018-11-09	5:00:00 PM	Meadowbank AWAR	km92	Wolf	1	Running	Isabelle C.		No action required
2018-11-10	12:30:00 PM	Meadowbank	Landfill	Wolverine	1		E&I supervisor		Monitored the area but no sight
2018-11-11	10:00:00 AM	Amaruq	kitchen storage	Weasel	2	Hiding	Kitchen staff		Monitored the area
2018-11-11	11:30:00 AM	Meadowbank	km 90, west side, 120m	Caribou	70	Grazing	Patrick Ahern		Monitored the area
2018-11-12	8:30:00 PM	Meadowbank		Wolf	3	Walking	Richard AEM driver		No action required

2018-11-12	1:00:00 PM	Amaruq	by main camp-construction entrance	Fox	1	Running	Alain Demers		Monitored the area but no sight
2018-11-15	4:30:00 PM	Meadowbank AWAR	KM 95	Raven	25	Eating	Nicolas Saucier		No action required
2018-11-15	4:30:00 PM	Meadowbank AWAR	KM 95	Wolf	1	Fleeing	Nicolas Saucier		No action required
2018-11-15	10:30:00 AM	Meadowbank	KM 82	Caribou	200	Walking	Patrick Ahern	Martin Krelak	No action required
2018-11-15	10:00:00 AM	Meadowbank	KM 85	Caribou	150	Walking	Patrick Ahern	Martin Krelak	No action required
2018-11-15	10:00:00 AM	Meadowbank	KM 92	Caribou	150	Walking	Patrick Ahern	Martin Krelak	No action required
2018-11-16		Meadowbank AWAR	KM 95	Caribou	1	Dead	Environment staff		No action required
2018-11-16	3:00:00 PM	Meadowbank AWAR	KM 18	Arctic hare	1	Observing	Charles Montbriand-Leduc	Victor U.	No action required
2018-11-16	2:00:00 PM	Meadowbank AWAR	kM 80	Caribou	60	Walking	Charles Montbriand-Leduc	Victor U.	No action required
2018-11-16	1:00:00 PM	Meadowbank AWAR	KM 85	Caribou	70	Walking	Charles Montbriand-Leduc	Victor U.	No action required
2018-11-16	1:30:00 PM	Meadowbank AWAR	KM 86	Caribou	40	Walking	Charles Montbriand-Leduc	Victor U.	No action required
2018-11-16	1:30:00 PM	Meadowbank AWAR	KM 88	Caribou	5	Eating	Charles Montbriand-Leduc	Victor U.	No action required
2018-11-16	12:00:00 PM	Meadowbank AWAR	KM 84	Caribou	150	Eating	Victor U.		No action required
2018-11-17	12:00:00 PM	Amaruq	Kitchen transition area	Weasel	1	Running	Fanny Laporte	Jonathan	Monitored the area
2018-11-17	11:30:00 AM	Meadowbank AWAR	KM 87	Caribou	8	Eating	Charles Montbriand-Leduc	Nicolas Saucier	No action required
2018-11-17	11:00:00 AM	Meadowbank AWAR	KM 90	Caribou	44	Resting	Charles Montbriand-Leduc	Nicolas Saucier	No action required
2018-11-17	11:00:00 AM	Meadowbank AWAR	KM 91	Musk-ox	8	Resting	Charles Montbriand-Leduc	Nicolas Saucier	No action required
2018-11-17	11:00:00 AM	Meadowbank AWAR	KM 94	Caribou	50	Eating	Charles Montbriand-Leduc	Nicolas Saucier	No action required
2018-11-19	12:00:00 PM	Meadowbank AWAR	MK 86	Caribou	45	Walking	Charles Montbriand-Leduc		No action required
2018-11-19	11:30:00 AM	Meadowbank AWAR	KM 92	Caribou	12	Walking	Charles Montbriand-Leduc		No action required
2018-11-19	11:30:00 AM	Meadowbank AWAR	KM 93	Musk-ox	20	Eating	Charles Montbriand-Leduc		No action required
2018-11-19	11:30:00 AM	Meadowbank AWAR	KM93	Caribou	35	Eating	Charles Montbriand-Leduc		No action required

2018-11-19	11:30:00 AM	Meadowbank AWAR	KM 96	Caribou	5	Eating	Charles Montbriand-Leduc		No action required
2018-11-19	2:30:00 PM	Meadowbank AWAR	km16	Wolverine	1	Walking	Road crew		No action required
2018-11-20	9:00:00 AM	Meadowbank AWAR	km3	Caribou	2	Walking	road crew		No action required
2018-11-21		Amaruq Road	Km 60	Caribou	1	Dead	Environment staff	GN Conservation officers	Monitored the area
2018-11-22	4:30:00 PM	Amaruq Road - Meadowbank	KM 55	Musk-ox	2	Grazing	Charles Montbriand-Leduc	Martin Krelak	No action required
2018-11-22	4:00:00 PM	Amaruq Road - Meadowbank	KM 60	Wolf	1	Resting	Charles Montbriand-Leduc	Martin Krelak	No action required
2018-11-22	3:30:00 PM	Amaruq Road - Meadowbank	KM 59	Caribou	20	Resting	Charles Montbriand-Leduc	Martin Krelak	No action required
2018-11-22	3:30:00 AM	Amaruq Road - Meadowbank	KM 56	Caribou	54	Walking	Charles Montbriand-Leduc	Martin Krelak	No action required
2018-11-22	3:30:00 PM	Amaruq Road - Meadowbank	KM 45	Caribou	31	Grazing	Charles Montbriand-Leduc	Martin Krelak	No action required
2018-11-22	3:00:00 PM		KM 45	Caribou	15	Running	Charles Montbriand-Leduc	Martin Krelak	No action required
2018-11-23	10:30:00 PM	Meadowbank	Vault road km1	Caribou	300	Grazing	Jaime Kataluk		Closed the road
2018-11-24		Meadowbank	Km 60	Caribou	1	Dead	Arctic Fuel truck driver		No action required
2018-11-26	12:30:00 PM	Meadowbank	KM60	Caribou	50	Grazing	Robin Allard	Courtney Squires	Monitored the area
2018-11-26	7:30:00 AM	Meadowbank	Km 73	Wolf	3	Walking	Mandie L		No action required
2018-11-27	12:00:00 PM	Meadowbank	KM 105	Caribou	6	Grazing	Charles Montbriand Leduc	Victor U.	No action required
2018-11-28	12:30:00 PM	Meadowbank	Km 33	Caribou	1	Grazing	truck driver		No action required
2018-11-28	1:30:00 PM	Meadowbank	Km 89	Wolf	4	Walking	truck driver		No action required
2018-11-28	12:30:00 PM	Amaruq Road - Meadowbank	KM 157	Caribou	4	Eating	Charles Montbriand Leduc	Martin Krelak	No action required
2018-11-28	2:30:00 PM	Amaruq Road - Meadowbank	KM 175	Caribou	21	Walking	Charles Montbriand Leduc	Martin Krelak	No action required
2018-11-28	10:30:00 AM	Amaruq Road - Meadowbank		Wolf	3	Eating	Charles Montbriand Leduc	Martin Krelak	No action required
2018-11-29	6:00:00 PM	Amaruq	Grease Trap Building	Fox	1	Dead	Dany Larouche		No action required
2018-11-29	4:00:00 PM	Amaruq	km 117	Wolf	3		Martin Kreealak	Isabelle Couture	Monitored the area
2018-11-29	3:30:00 PM	Amaruq	km 135	Caribou	9	Eating	Martin Kreealak	Isabelle Couture	No action required
2018-11-29	1:00:00 PM	Amaruq	km 157	Caribou	10	Eating	Martin Kreealak	Isabelle Couture	No action required
2018-11-29	11:00:00 AM	Amaruq	km 118	Wolverine	1	Running	Martin Kreealak	Isabelle Couture	No action required

2018-11-30	12:00:00 PM	Amaruq	km 118	Caribou	10	Eating	Martin Kreelak	Isabelle Couture	No action required
DECEMBER, 2018									
Date	Time	Location	Sub-Location	Wildlife Species	Quantity	Behavior	Observer #1	Observer Name #2	Action
2018-12-02	12:00:00 PM	Amaruq	Pad H	Fox	1	Walking	Ronnie		No action required
2018-12-02	10:00:00 AM	Amaruq	Batch Plan	Wolverine	1		FGL worker		Monitored the area
2018-12-03	9:30:00 AM	Meadowbank AWAR	KM 49	Caribou	20	Eating	Jamie Kataluk		No action required
2018-12-03	10:00:00 AM	Meadowbank AWAR	KM 55	Wolf	1		Ernie Lischinski		No action required
2018-12-05	1:00:00 PM	Amaruq Road - Meadowbank	KM 161	Fox	1	Running	Martin Kreelak	Isabelle Couture	No action required
2018-12-05	12:30:00 PM	Meadowbank AWAR	KM 79	Wolf	2		David Kautaq		No action required
2018-12-05	12:00:00 PM	Meadowbank	KM 81	Wolf	1	Walking	Jimmy Misheralak		No action required
2018-12-05	12:00:00 PM	Meadowbank AWAR	KM 50	Caribou	35	Walking	David Kautaq		No action required
2018-12-05	12:00:00 PM	Amaruq Road - Meadowbank	KM 149	Wolf	3	Eating	Martin Kreelak	Isabelle Couture	Monitored the area but no sight
2018-12-05	10:00:00 AM	Amaruq	Batch Plan	Wolverine	1	Running	Operator		Monitored the area but no sight
2018-12-05	9:30:00 AM	Construction - Amaruq	New camp Pad H	Wolverine	1	Running	Enrico	Construction operator	Monitored the area but no sight
2018-12-05	12:30:00 PM	Meadowbank AWAR	KM 75	Wolverine	1		Jimmy Misheralak		No action required
2018-12-06	2:00:00 PM	Amaruq	Exploration maintenance	Fox	1	Running	V. Sautier		No action required
2018-12-06	1:30:00 PM	Amaruq		Fox	1	Crossing the road	Nicolas S		No action required
2018-12-06	1:00:00 PM	Amaruq Road - Meadowbank		Arctic hare	1	Dead	Nicolas Saucier	Martin Kreelak	No action required
2018-12-06	3:30:00 PM	Meadowbank AWAR	KM 22	Wolf	2	Walking	Jamie Misheralak		No action required
2018-12-06	12:30:00 PM	Amaruq		Fox	1	Walking	Nicolas S		No action required
2018-12-06	11:00:00 AM	Meadowbank	Landfill	Wolverine	2	Walking	Roll-off driver		Monitored the area
2018-12-06	11:00:00 AM	Amaruq	Pad Q	Wolf	1	Resting	Nelson Bell	Fanny Laporte	Deterred. Successful
2018-12-07	12:30:00 PM	Meadowbank AWAR	KM 58	Caribou	20	Eating	Jamie Misheralak		No action required
2018-12-07	12:30:00 PM	Amaruq	Pad H	Wolverine	1	Running	Daniel Massicotte		Monitored the area but no sight
2018-12-07	12:00:00 PM	Amaruq	Core Shack	Wolverine	1	Running	Maxime Rioux		Monitored the area but no sight
2018-12-07	11:00:00 AM	Meadowbank AWAR	KM 106	Caribou	6	Eating	Isabelle Couture	Nicolas Saucier	Monitored the area
2018-12-07	11:00:00 AM	Meadowbank AWAR	KM 24	Wolverine	1	Walking	David Kautaq		No action required

2018-12-08	8:00:00 AM	Amaruq Road - Meadowbank	KM 176	Arctic hare	1	Dead	Lee Christophe Bouchard	Fanny Laporte	No action required
2018-12-11	1:30:00 PM	Meadowbank AWAR	KM 37	Caribou	1	Running	Nicolas Saucier	Bernard Putulik	No action required
2018-12-11	1:00:00 PM	Meadowbank AWAR	KM 50.5	Caribou	16	Grazing	Nicolas Saucier	Bernard Putulik	No action required
2018-12-11	2:00:00 PM	Meadowbank AWAR	KM 8	Arctic hare	1	Running	Nicolas Saucier	Bernard Putulik	No action required
2018-12-11	12:30:00 PM	Meadowbank AWAR	KM 76	Caribou	7	Grazing	Nicolas Saucier	Bernard Putulik	No action required
2018-12-12	6:00:00 PM	Amaruq	Nemo Lake	Wolverine	1	Running	E&I operator		No action required
2018-12-12	12:00:00 PM	Amaruq Road - Meadowbank	KM 140	Musk-ox	20	Unknown	J.Collard		No action required
2018-12-12	12:00:00 PM	Amaruq Road - Meadowbank		Caribou	6	Walking	Martin Kreelak	Nicolas Saucier	No action required
2018-12-12	3:00:00 PM	Amaruq Road - Meadowbank	KM 140	Musk-ox	24	Resting	Martin Kreelak	Nicolas Saucier	No action required
2018-12-13	2:00:00 PM	Amaruq Road - Meadowbank	KM 148 400m west side	Musk-ox	2	Resting	Martin Kreelak	Nicolas Saucier	No action required
2018-12-13	1:30:00 AM	Amaruq Road - Meadowbank	KM 139, 150m west side	Musk-ox	22	Resting	Martin Kreelak	Nicolas Saucier	Monitored the area
2018-12-13	10:30:00 AM	Amaruq	behind kitchen	Fox	1	Walking	Jonathan Duguay		Monitored the area
2018-12-13	1:00:00 AM	Amaruq Road - Meadowbank		Caribou	21	Eating	Martin Kreelak	Nicolas Saucier	No action required
2018-12-14	3:00:00 PM	Meadowbank AWAR	KM 18	Fox	2	Running	Charles Montbriand Leduc	Victor U.	No action required
2018-12-14	1:30:00 PM	Meadowbank AWAR	KM 93	Musk-ox	23	Resting	Charles Montbriand Leduc	Victor U.	No action required
2018-12-14	2:00:00 PM	Meadowbank AWAR	KM 62	Caribou	1	Walking	Charles Montbriand Leduc	Victor U.	No action required
2018-12-14	4:30:00 AM	Amaruq	Camp, between 2 wings	Wolverine	1		Surveyor		Monitored the area
2018-12-14	8:30:00 AM	Amaruq	Kitchen Loading dock	Fox	1	Walking	Kitchen employee		Monitored the area
2018-12-15	5:00:00 PM	Amaruq	Haz mat area	Fox	3	Observing	Kevin Martee		No action required
2018-12-15	3:00:00 PM	Meadowbank	Vault Kitchen and Drill Tail Lake	Wolverine	1	Running	Nicolas Saucier		Monitored the area
2018-12-16	3:00:00 PM	Amaruq Road - Meadowbank	KM 140	Musk-ox	19	Resting	Charles Montbriand Leduc		Monitored the area
2018-12-16	10:30:00 AM	Meadowbank	Second Portage Lake	Wolf	1	Walking	Nicolas Saucier	Charles M-L	Deterred. Successful
2018-12-16	8:00:00 AM	Meadowbank	Goose Pit	Wolf	1	Sleeping	Nicolas Saucier	Charles M-L	Deterred. Successful

2018-12-18	1:00:00 AM	Meadowbank	Fresh Water Barge Road	Wolf	1	Walking	Nicolas Saucier	Tom T	Monitored the area but no sight
2018-12-18	9:30:00 AM	Meadowbank AWAR	KM 101	Wolf	1	Observing	Nicolas Saucier	Charles M-L	Deterred. Successful
2018-12-19	9:00:00 AM	Meadowbank	Landfill	Wolverine	1	Eating	Charles Montbriand Leduc	Nicolas Saucier	Deterred. Successful
2018-12-20	7:30:00 AM	Meadowbank AWAR	KM 92	Musk-ox	15	Resting	Pick up 61		No action required
2018-12-21	12:00:00 PM	Meadowbank AWAR	KM 93	Musk-ox	25	Resting	Victor U.		No action required
2018-12-22	4:30:00 AM	Amaruq	Orbit Garant Garage	Wolverine	1	Running	E&I employee		Monitored the area but no sight
2018-12-23	3:00:00 AM	Amaruq Road - Meadowbank	KM 144	Musk-ox	2	Sleeping	Tom Thomson	Louis Dubois	No action required
2018-12-25	12:00:00 PM	Amaruq	Construction Parking	Wolverine	1	Running	Joshua M.		Monitored the area but no sight
2018-12-26	8:30:00 AM	Amaruq	Wing 17	Wolverine	1	Running	Marc-Andre D.		Monitored the area but no sight
2018-12-28	7:00:00 PM	Amaruq	Amaruq Camp	Wolverine	1	Running	E&I worker		Monitored the area but no sight
2018-12-30	9:30:00 PM	Amaruq	Main camp road	Wolverine	1	Running	Patrick A.	Pete Henry	Monitored the area but no sight
2018-12-30	9:30:00 AM	Amaruq	Ore Stockpile 1	Wolverine	1	Running	E&I worker		Monitored the area but no sight
2018-12-30	5:00:00 PM	Meadowbank	Portage Pit	Wolverine	1	Running	fuel truck driver		No action required
2018-12-30	9:00:00 AM	Meadowbank	BB Phaser Pit	Wolf	1	Walking	Brandon O		No action required

APPENDIX F

2018 Wildlife Notifications

From: [Martin Theriault](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: wildlife on site
Date: January 1, 2018 9:12:13 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)
[Nunavut - Working in the wild.pdf](#)

Hi,

As you may know, wildlife has been reported on a more frequent basis on site. **To minimize this, we need to cut the attractant which is the reason for their presence.** We can see around site coffee poured in the snow, cigarette butts and food waste including coffee cups. I asked E.I to clean up all the coffee poured in the snow and discussed with the kitchen not to give coffee cups anymore. If you have coffee cups in your working area, please get rid of it. If there is no food available, the animals won't stay close to camp.

Please find more information in the attached *Working in the Wild* Pamphlet

Supervisor, please share with your respective crews.

If you have any questions or would like a member of the Environment team to attend your tool box meetings to discuss this further, please don't hesitate to contact the Environmental department.

Thank you for your cooperation

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

Agnico Eagle Mines Limited
Meadowbank Division
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From: [Martin Archambault](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: Wildlife
Date: January 13, 2018 7:13:55 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)
[WPRP Protocols for Dealing with Problem Wildlife.docx](#)
[Wolverine - Actions to date.docx](#)

Good day all,

Such as it is every winter, wildlife has been seen and or reported on a frequent basis during the past few weeks. AEM has committed to follow in collaboration with Government of Nunavut Wildlife Conservation Officers a Wildlife Protection and Response plan. The plan provides information on general human-wildlife conflicts, policies and regulation, species-specific response plans for ungulates and predatory mammal, and wildlife awareness.

-

Please take time to read this additional information on Wildlife Response and Protection Protocol as well as the actions to date.

-

As a general reminder - naturally, these animals will not attack humans, and will be more afraid of us than we are of them. If precaution is taken, there is no need to be afraid of these animals.

As such, we ask everyone on site to be sure to keep all **sea cans** and **doorways** shut to avoid allowing access to these creatures. If protecting a food source, if surprised, or if cornered in a location they cannot get out of, these creatures, like any other wild animal, will defend itself.

When leaving a doorway and/or travelling outside, look around and proceed with caution to avoid walking up to an animal and startling it.

Please be sure to properly dispose of all food in the appropriate waste containers to ensure there are no food attractants for wildlife.

Here are some simple rules to follow in the case of an encounter:

- Respect them – they are wild
- Be alert at all times
- If you encounter one, back away slowly

- Make noise – don't surprise animals
- Travel in groups or use the "buddy" system when possible
- Be cautious in noisy areas
- Do not approach them and never feed animals

Any person caught feeding animals or disposing of food related waste in an improper manner, including not disposing of food waste in the proper containers or disposing at the landfill, will be met with disciplinary measures.

If wildlife is seen please do not approach or chase it. Call the Environment Department on channel 9 or at extension 6747/6759/6906/6744 or contact Meadowbank Mine Dispatch on radio or extension 6949.

All personnel, including contractors, on site have a role to play in ensuring human safety and conservation of wildlife at the Meadowbank site.

Martin Archambault
Environmental Senior Coordinator

martin.archambault@agnicoeagle.com

T: 819.759.3555 x6744

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Meadowbank Division
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From: [Fanny Laporte](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Subject: **Wildlife Meadowbank Memo
Date: March 28, 2018 8:22:19 AM
Attachments: [image001.jpg](#)
[image003.jpg](#)
[image005.jpg](#)
[image007.jpg](#)
[image009.png](#)
[Nunavut - Working in the wild.pdf](#)

Good day all,

Wildlife has been reported around the main camp area and due to poor visibility right now, we ask the supervisors to share this safety topic with their crew.

Make sure all employee walking outside make a good inspection of the area before going out, be vigilant, use buddy system and have a radio or other communication device at all time.

We ask that no one attempts to feed, take close-up pictures, or get close to these wild creatures. Naturally, these animals will not attack humans, and will be more afraid of us than we are of them. If precaution is taken, there is no need to be afraid of these animals.

However, if protecting a food source, if surprised, or if cornered in a location they cannot get out of, these creatures, like any other wild animal, will defend itself. We again ask everyone on site to be sure to ***keep all sea cans, and doorways closed*** to avoid allowing access. Be sure to properly dispose of all food in the appropriate waste containers to ensure there are no food attractants for wildlife.

Please find more information in the attached
Working in the Wild Pamphlet

If wildlife is seen please **DO NOT APPROACH IT OR CHASE IT!!!**

Call the Environment Department on channel 9 or at extension **6747, 6744** or **6759** or contact Meadowbank Mine Dispatch on channel 11 or extension **6949**.

Supervisor, please share with your respective crews.

If you have any questions or would like a member of the Environment team to attend your tool box meetings to discuss this further, please don't hesitate to contact the Environmental department.

Thank you for your
cooperation,

Fanny Laporte
Environmental Technician

fanny.laporte@agnicoeagle.com

T: 819.759.3555 x6747

From: [Robin Allard](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#)
Cc: [Meadowbank Environment](#)
Subject: Wildlife at Meadowbank
Date: June 10, 2018 6:56:52 PM
Attachments: [image002.jpg](#)
[image004.jpg](#)
[image006.jpg](#)
[image008.jpg](#)
[image010.png](#)
[Nunavut - Working in the wild.pdf](#)

Good day all,

In this northern spring season, just a reminder that wildlife is still present around our sites. We ask that **no one attempts to feed, take close-up pictures, or get close to** these wild creatures. Naturally, these animals will not attack humans, and will be more afraid of us than we are of them. If precaution is taken, there is no need to be afraid.

Please find more information in the Meadowbank
Wildlife Pamphlet

If wildlife is seen please **DO NOT APPROACH IT OR CHASE IT!!!**

Call the Environment Department on channel 9 or at extension **6747, 6759** or **6744** or contact Meadowbank Mine Dispatch on channel 11 or extension **6949**.

Supervisor, please share with your respective crews.

Robin Allard
Senior Environmental Coordinator

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Meadowbank Division
Baker Lake, Nunavut, Canada
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From: [Martin Archambault](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#); [Amarug](#)
Subject: Caribou migration
Date: August 21, 2018 4:51:56 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)
[Wildlife Protection Protocol Caribou Migration August 21st 2018.pdf](#)

Good day,

The Environment Department have noticed more Caribou observation on AWAR and AMQ Road since last week. This was confirmed yesterday with the information provided by the GN Caribou data.

It is very important to everyone to respect the Wildlife Right of Way and reduce the speed to 30 km/h where the wildlife is observed.

The Environment Department will work in collaboration of with the GN, KIA and HTO during this period.

If you need more information, please contact the Environment Department.

Regards,

Martin Archambault
Environmental Senior Coordinator

martin.archambault@agnicoeagle.com

T: 819.759.3555 x6744

Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

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From: [Robin Allard](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#); [Amaruq](#)
Subject: Caribou migration
Date: September 27, 2018 7:00:00 PM
Attachments: [image006.jpg](#)
[image008.jpg](#)
[image010.jpg](#)
[image012.jpg](#)
[image014.png](#)
[Wildlife Protection Protocol Caribou Migration September 27th 2018.pdf](#)

Good day,

We are now in the part of the year when the caribou migration is occurring. Caribou numbers are steadily increasing along the AWAR, the Amaruq/Whale Tail road and at our sites.

As in the past, large herds will be crossing the roads. Please be cautious of nearby caribou. We are obligated through our Permits and Licenses to not disrupt the migration of caribou. This means not altering the path in which the caribou travel. Regardless, if only 1 caribou or if a large group of caribou are crossing the road, please stop and remain cautious.

It is very important for everyone to respect the Wildlife Right of Way and reduce the speed to 30 km/h where wildlife is observed.

Please review the attached information to ensure a safe season.

The Environment Department will work closely in collaboration of with the GN, KIA and BL HTO during this period.

If you have any questions,

Robin Allard
Senior Environmental Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

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From: [Martin Archambault](#)
To: [Meadowbank AEM](#); [Meadowbank Contractors](#); [Amaruq](#)
Subject: Wildlife
Date: September 16, 2018 9:01:04 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.png](#)
[Wildlife safety and protection.pdf](#)

Good day All,

Just a friendly reminder regarding wildlife. It is prohibited to feed, harass, deliberately disrupt or destroy wildlife at all time. As you know wildlife is often reported at Amaruq and Meadowbank site, we need to make sure to remove any attractants such as food, garbage or anything else you think that could attract wildlife.

Supervisor please make sure to share this with your crew.

Do not hesitate to contact us if you need more information.

Regards,

Martin Archambault
Environmental Senior Coordinator

martin.archambault@agnicoeagle.com

T: 819.759.3555 x6744

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APPENDIX G

2018 Height of Land Survey Forms

HEIGHT-OF LAND SURVEYS

Date	Observations - 360°	Observer (#1 & #2)	HOL-1	HOL-2	HOL-3	HOL-4	HOL-5	Comments
8/26/2018	1st - five minutes	Patrick Ahern & Isabelle Couture	No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
9/19/2018	1st - five minutes	Martin Kreelak & Isabelle Couture	6 caribou	No caribou observation	No caribou observation	No caribou observation	No caribou observation	Fresh caribou tracks at HOL 2
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
10/3/2018	1st - five minutes	Martin Kreelak & Jonathan Pameolik	4 Muskox	4 Caribou	No caribou observation	No caribou observation	No caribou observation	Wolverine Tracks at HOL 3 and 1
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
10/7/2018	1st - five minutes	Patrick Ahern & Jonathan Pameolik	4 Muskox	cancelled	cancelled	cancelled	cancelled	blizzard conditions beyond HOL 1, visibility >300m
	2nd - five minutes		No caribou observation	cancelled	cancelled	cancelled	cancelled	
	3rd - five minutes		No caribou observation	cancelled	cancelled	cancelled	cancelled	
	4th - five minutes		No caribou observation	cancelled	cancelled	cancelled	cancelled	
10/10/2018	1st - five minutes	Martin Kreelak & Patrick Ahern	No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	Wolverine Tracks at HOL 1
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
10/17/2018	1st - five minutes	Martin Kreelak & Patrick Ahern	No caribou observation	No caribou observation	18 caribou	No caribou observation	No caribou observation	Clear skies. Visibility >5km
	2nd - five minutes		2 Muskox	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
10/18/2018	1st - five minutes	Martin Kreelak & Isabelle Couture	No caribou observation	7 Muskox	No caribou observation	No caribou observation	No caribou observation	Visibility less than 1km for the HOL #1&2
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
10/21/2018	1st - five minutes	Charles Montbriand-Leduc & Isabelle Couture	100 Caribou (fall migration is starting slowly)	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
11/8/2018	1st - five minutes	Patrick Ahern & Martin Kreelak	No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	Blowing snow, visibility less than 300m. Winds 60km
	2nd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	3rd - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	
	4th - five minutes		No caribou observation	No caribou observation	No caribou observation	No caribou observation	No caribou observation	



AGNICO EAGLE

Whale tail Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

H.O.L	Cardinal point	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Side of the road Road	Distance from Road (m)	Distance from H.O.L(m)
1 Time :	North								
	East								
	South								
	West								
2 Time : 10:00 ^{am}	North	Ø		X					
	East	Ø							
	South	Ø							
	West	Ø							
3 Time :	North								
	East								
	South								
	West								
4 Time : 1:45 ^{pm}	North	Ø							
	East	Ø							
	South	Ø							
	West	Ø							
5 Time : 2:00 ^{pm}	North	Ø							
	East	Ø							
	South	Ø							
	West	Ø							

km
123



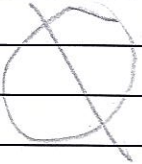
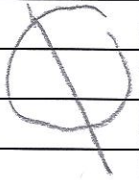
AGNICO EAGLE

Nicolas Savcier, Martin Kreelak

2018-12-12

Whale tail Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

H.O.L	Cardinal point	Species	Qty	Habitat Type	Behavior	Direction of Travel	Side of the road Road	Distance from Road (m)	Distance from H.O.L(m)
1 Time :	North	Poor visibility							
	East								
	South								
	West								
2 Time :	North	Poor visibility							
	East								
	South								
	West								
3 Time : 13:30	North								
	East								
	South								
	West								
4 Time : 11:20	North								
	East								
	South								
	West								
5 Time : 10:55	North	Caribou on the H.O.L, we can't access without creating							
	East	disturbance							
	South								
	West								



AGNICO EAGLE

Date: Dec 13, 2018-XXIIX *Height-of-lands Field Sheet (Whale Tail Haul Road)*
 Field Team: MARTIN & NICOLAS
 Temperature: -11 Wind Speed: 40 Wind Direction: SE
 Visibility (check): 100m 500m 1 km Precipitation: Blowing snow

H.O.L	Cardinal point	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Side of the road Road	Distance from Road (m)	Distance from H.O.L(m)
1 Time : <u>11:10</u>	North								
	East								
	South								
	West								
2 Time : <u>12:00</u>	North	<u>Caribou just beside HOL, we can't access without creating disturbance</u>							
	East								
	South								
	West								
3 Time :	North								
	East								
	South								
	West								
4 Time :	North								
	East								
	South								
	West								
5 Time :	North								
	East								
	South								
	West								



AGNICO EAGLE

Whale tail Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

H.O.L	Cardinal point	Species	Qty	Habitat Type	Behavior	Direction of Travel	Side of the road Road	Distance from Road (m)	Distance from H.O.L(m)
1 Time : Did it? : Y/N Wildlife? Y/N	North								
	East								
	South								
	West								
2 Time : Did it? : Y/N Wildlife? Y/N	North								
	East								
	South								
	West								
3 Time : Did it? : Y/N Wildlife? Y/N	North								
	East								
	South								
	West								
4 Time : 10:15 Did it? : Y/N Wildlife? Y/N	North								
	East								
	South								
	West								
5 Time : Did it? : Y/N Wildlife? Y/N	North								
	East								
	South								
	West								



APPENDIX H

2018 HTO Wildlife Agreement



FUNDING AGREEMENT BETWEEN BAKER LAKE HUNTERS AND TRAPPERS ORGANIZATION AND AGNICO EAGLE MINES LTD.

Baker Lake Hunters and Trappers Organization (“HTO”) and Agnico Eagle Mines Ltd (“AEM”) intend to develop a collaboration that results initially in the following:

- The monitoring of caribous on the road to Amaruq region from Meadowbank mine;
- Incidental monitoring of other wildlife
- Other relevant activities as agreed to from time to time, including research, Inuit Qaujimagatuqangit and capacity building (collectively, the “Work”);

To ensure collaboration, AEM and HTO agree that HTO will retain an employee based in the community to coordinate the Work. The position will be titled as the Wildlife Coordinator and work as an HTO employee. AEM agrees to compensate HTO for the services provided by the Agnico Community Coordinator at rates included in the Schedule to this agreement.

Summary of Duties of the Wildlife Coordinator

The following provides a summary of the duties of the Agnico Community Coordinator:

1. Assist AEM operational and environment employees in the monitoring of the Amaruq – Meadowbank Road monitoring of caribou and to a lesser degree, general wildlife monitoring;
2. Assistance to support community information related to wildlife monitoring activities;
3. Other activities include:
 - Attend training sessions provided by AEM
 - Support AEM information materials
 - Provide other duties as agreed to from time to time
4. Reporting
 - The Wildlife Coordinator will report to the HTO management on a day to day basis
 - The Wildlife Coordinator will provide to AEM on a bi monthly basis, reports on activities
5. Additional Commitments:
 - To adhere to the commitments as described in the Schedule to this agreement.

The parties agree to review and discuss All Weather Access Road (“AWAR”) monitoring after the 2018 summer caribou migration.

AEM Commitments

AEM agrees to support HTO as follows:

- Provide funding to HTO to reimburse the compensation package for the hiring of one full time Wildlife Coordinator at the yearly salary of \$90,000.00 plus benefits estimated to be 15% of the yearly salary (not to exceed 18%) to support this position;
- Provide for the training of the Wildlife Coordinator, including costs of travel and accommodation;
- Work with the HTO to develop an annual work plan for the Coordinator. The work plan will establish performance expected;
- Co-operate with the HTO on work plan and Wildlife Coordinator performance reviews;
- Meet with the HTO on a frequent basis to discuss activities and work plans of the said Coordinator;
- To provide the equipment and support as described in the Schedule to this Agreement.

HTO Commitments

HTO agrees to support this collaboration with the AEM as follows;

- Provide an employee on a regular full-time basis to perform the duties of the Wildlife Coordinator as described above;
- Provide office space, access to office equipment and communications to perform the duties;
- Participate with AEM and in the performance review of this Coordinator;
- Meet with AEM on a frequent basis to discuss activities and work plans of the Wildlife Coordinator;
- To assist in the additional commitments as described in the Schedule attached.

Other

Either party may terminate this agreement with 3 months written notice.

--	--

The agreement comes into effect on the day of signing by HTO and AEM.

AEM will pay HTO on receipt of invoices as follows:

On agreement signing:	\$45,000.00
Sept1, 2018:	\$45,000.00

Additional costs as provided by this Funding Agreement will be submitted by HTO on a bi-yearly basis.

Signed on the ___ day of _____, 2016

Chair – Baker Lake HTO

Superintendent, Environment AEM

Schedule

Work Schedule	<ul style="list-style-type: none"> • 5/2 week - Apr 1-May 25 & Sep1-Dec 15 • 2/week - May 25-Sep 1 & Dec 15-Apr 1 • 160 days/year approx. (M-F 99 days+2/wk 64 days) • Work in progress
Salary	<ul style="list-style-type: none"> • \$90,000/yearly (benefits estimated between 12-18%) + 15% (administration fee) • Amount to be paid in 2 installments • Additional hours (ie.heavy migration) to be paid per diem (approx \$550/day) • Monitor travel to be done on days off
AWAR Monitoring	<ul style="list-style-type: none"> • Phase 1-Amaruq Road monitoring (wildlife-focused) • AWAR monitoring to be discussed after summer caribou migration • Possibly separate budget-separate monitor
Truck	<ul style="list-style-type: none"> • AEM will provide truck (incl. gas/maintenance) for Phase 1 monitoring • HTO logo (magnetic) will be provided • When HTO purchases vehicle for monitoring, AEM agrees to install required equipment (radio, GPS, etc) as needed
Firearms	<ul style="list-style-type: none"> • No firearms will be allowed
Equipment/Training	<ul style="list-style-type: none"> • AEM agrees to provide Personal Protection Equipment and equipment as needed (radio/GPS mounted in vehicle, binoculars, etc) • Work/Site Readiness training not required • Mandatory training to be completed • AEM will advise of other available/upcoming applicable training (First Aid, etc) • HTO would like laptop with MS applications for reporting purposes
Start Date	<ul style="list-style-type: none"> • May 1 2018 or as soon as possible
Hunter Harvest Survey	<ul style="list-style-type: none"> • AEM would like to start HHS discussion again • HTO says community members might have been reluctant to participate fearing it may result in caribou quotas being introduced
Data	<ul style="list-style-type: none"> • AEM could compile reporting data-HTO (Ezra) says they can interpret the data and would like the ability to interpret and comment • AEM can spend time with monitor to be more involved and develop capacity
HTO-Future vision	<ul style="list-style-type: none"> • HTO says they would like to encourage better/traditional hunting practices, land programs, education programs • AEM offered to meet several times/yr to help HTO build capacity and encourage wellness, support HTO vision