



# DE BEERS GROUP

**SNAP LAKE MINE  
2023 ANNUAL WILDLIFE MANAGEMENT AND MONITORING REPORT**

**March 2024**

## Revisions History

Revision	Date	Description
R0	3/28/2024	Final for submission

## Table of Contents

<b>Table of Contents</b> .....	<b>3</b>
<b>Abbreviations</b> .....	<b>4</b>
<b>1 Introduction</b> .....	<b>5</b>
1.1 Objectives.....	5
1.2 Study Area.....	9
<b>2 Wildlife Mitigation</b> .....	<b>11</b>
2.1 Wildlife Species of Concern .....	11
2.2 Vegetation Loss.....	12
2.3 Sensory Disturbance .....	13
2.3.1 CARIBOU MITIGATION .....	14
2.4 Incidents and Mortalities.....	15
2.4.1 BIRD NEST DETERRENT, PROTECTION AND REMOVAL MEASURES .....	16
<b>3 Wildlife Monitoring</b> .....	<b>17</b>
3.1 Caribou Monitoring .....	17
3.2 Bird Nest Monitoring .....	19
3.2.1 CLIFF SWALLOW .....	19
3.2.2 BANK SWALLOW .....	20
3.2.3 BARN SWALLOW.....	20
3.3 Wildlife Sightings Log .....	21
3.4 Wildlife Incidents .....	21
<b>4 Adaptive Management</b> .....	<b>23</b>
<b>5 References</b> .....	<b>24</b>
<b>Appendix A Bird Nest Removal and Monitoring Log</b> .....	<b>25</b>
<b>Appendix B Wildlife Sightings Log</b> .....	<b>31</b>

## Abbreviations

AST	aboveground fuel storage tank
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CWS	Canadian Wildlife Service
ECCC	Environment and Climate Change Canada
ECM	extended Care and Maintenance
ELC	Ecological Land Classification
ENR	Environment and Natural Resources
FCRP	Final Closure and Reclamation Plan
GNWT	Government of the Northwest Territories
ISP	Influent Storage Pond
km	kilometre
L	litre
M	million
MetNuna JV	MetNuna Joint Venture
MVLWB	Mackenzie Valley Land and Water Board
the Mine	Snap Lake Mine
SARA	<i>Species at Risk Act</i>
VMP	Vegetation Monitoring Program
WMMP	Wildlife Management and Monitoring Plan
WWMR	Wildlife Management and Monitoring Report
ZOI	zone of Influence

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

# 1 Introduction

Snap Lake Mine (the “Mine”) is an underground diamond mine located approximately 220 kilometres (km) northeast of Yellowknife (Figure 1.1). De Beers Canada Inc. operated the mine from 2008 to 2015. Mining activities were suspended in December 2015. Effective June 22, 2016, the Mine entered an extended Care and Maintenance (ECM) phase and in December 2017, De Beers announced the Mine would be preparing for final closure. A Final Closure and Reclamation Plan (FCRP), together with a renewal application for the Water Licence (MV2019L2-0004), was submitted to the Mackenzie Valley Land and Water Board (MVLWB) in March 2019. On May 21, 2020, the Water Licence for closure and post-closure was granted, effective June 14, 2020. The latest update of the FCRP was submitted to the MVLWB in July 2022, which received approval in December 2022 pending revisions. In a letter dated September 18, 2020, the Government of Northwest Territories (GNWT) Department of Environment and Natural Resources (ENR) informed De Beers that under Section 95 of the Wildlife Act, a Wildlife Management and Monitoring Plan (WMMP) for the closure and post-closure phase of the Snap Lake Mine is required. The WMMP would replace all previous submissions and authorized versions of the Wildlife Habitat Protection Plan and Wildlife Effects Monitoring Plans under the Snap Lake Environmental Agreement. Furthermore, the letter from ENR also indicated that the plan would fulfill the requirements of the Environmental Agreement (Section 6.2 and 6.3). De Beers submitted the WMMP on March 28, 2021, with a public review of the document coordinated by the GNWT. Following the review, WMMP Version 1.1 was submitted on December 3, 2021, incorporating the feedback from reviewers. Through further review, ENR requested eight additional revisions to the WMMP Version 1.1. These revisions were addressed in Version 1.2, which was approved on October 20, 2023.

## 1.1 Objectives

The 2023 Annual Wildlife Management and Monitoring Report (WWMR) has been prepared in accordance with the WMMP (De Beers 2021a) and Article 7.4 of the Environmental Agreement. The primary purpose of the annual WWMR is to evaluate accuracy of effects predictions (e.g., wildlife sensory disturbance) and to assess the effectiveness of mitigation measures implemented at the Mine to reduce potential effects on wildlife and wildlife habitat. The annual WWMR is also used to recommend any potential changes to wildlife monitoring components and/or protocols as described in the WMMP (De Beers 2021a).

The 2023 WWMR provides a summary of wildlife mitigation measures implemented at the Mine during Year 2 of Closure as well as wildlife monitoring results that included wildlife observations recorded during decommissioning/demolition activities of Mine infrastructure including the North Pile, water management system, airstrip, existing buildings, laydown areas, and waste management areas. This report describes wildlife

**Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report**

mitigation and monitoring that occurred at the Mine from January 1 to December 31, 2023 as summarized in Table 1.1.

A comprehensive analysis of mitigation and monitoring activities will be undertaken in the year after closure activities are complete (Year 1 of Post-Closure). A comprehensive analysis report is also anticipated in Year 6 of the Post-Closure period in accordance with the FCRP. The reports will provide a mechanism for determining the certainty of effects predictions, unanticipated ecological effects, and effectiveness of mitigation policies, procedures, and actions. The reports will also be used to help assess the effectiveness and utility of various components of the WMMP. Using the principles of adaptive management, the assessment will be used to make recommendations regarding the intensity, frequency, and duration of recording of wildlife observations, and possible changes to the components included in the monitoring program.

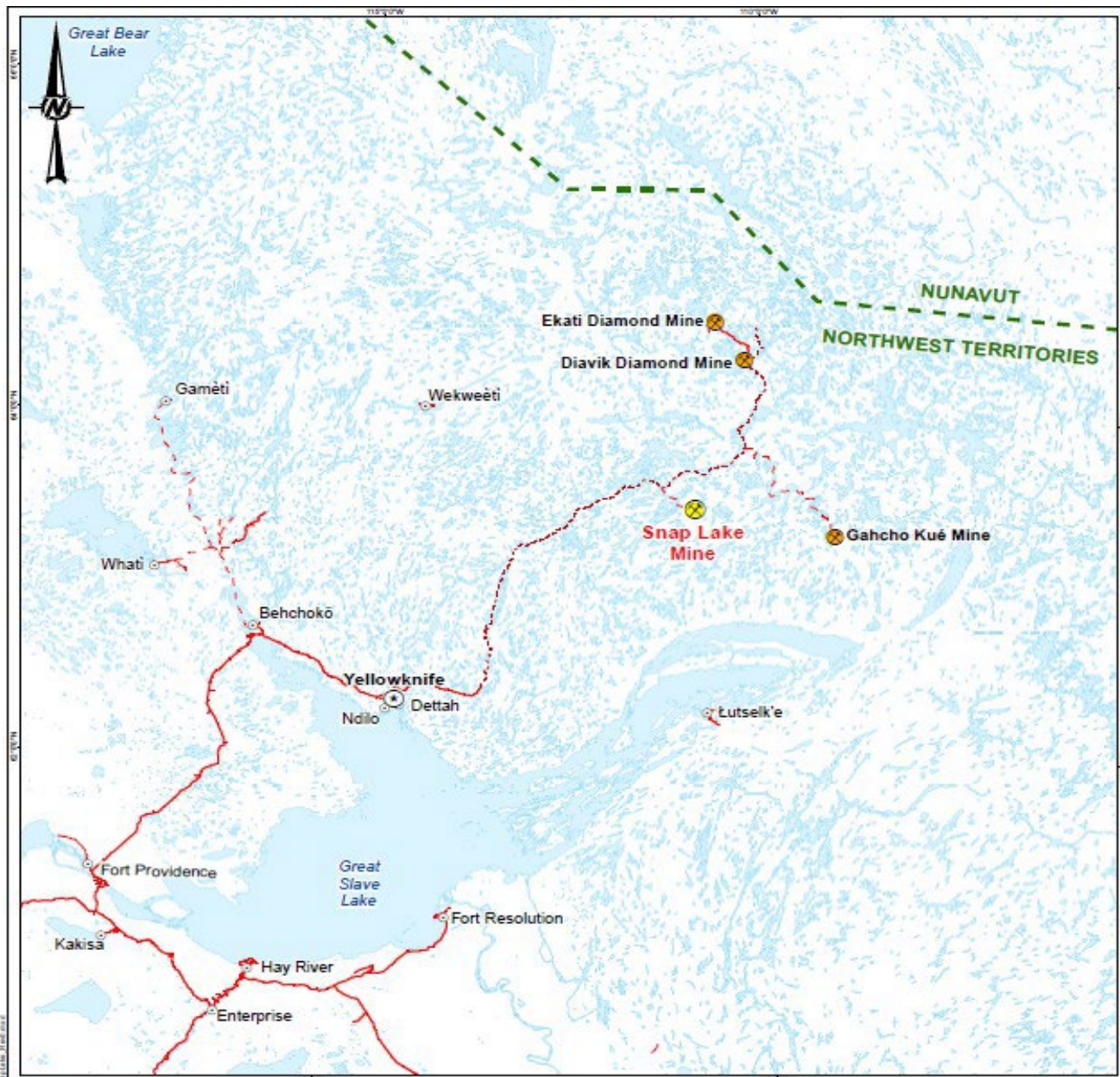
**Table 1.1 Summary of Wildlife Monitoring Programs per the Snap Lake WMMP**

Monitoring	Corresponding Monitoring Plans or Programs	Monitoring Schedule	Completed in 2023	Report Section
<b>Mitigation and Monitoring of Direct Effects</b>				
Vegetation Loss	<ul style="list-style-type: none"> <li>• Vegetation Monitoring Program (VMP)</li> <li>• WMMP</li> </ul>	Vegetation loss is assessed every five years (last completed in 2018) with the next program planned for 2023. Proposed updates to the VMP for closure and post-closure were presented in 2019 and 2022; De Beers will continue to implement the program as previously approved until the updated version receives approval from GNWT.	Yes	This will be reported in the 2023 Vegetation Monitoring Program Annual Report
Wildlife Incidents and Mortalities	<ul style="list-style-type: none"> <li>• WMMP</li> </ul>	Wildlife sightings are monitored continually and reported annually.	Yes	<ul style="list-style-type: none"> <li>• Section 2.4 - Incidents and Mortalities</li> <li>• Section 3.2 -</li> </ul>

**Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report**

		Wildlife incident monitoring has been ongoing and will continue to be undertaken as required. Wildlife incidents are reported immediately to ENR, in addition to being reported annually.		<p>Bird Nest Monitoring</p> <ul style="list-style-type: none"> <li>Section 3.3 - Wildlife Sightings Log</li> <li>Section 3.4 - Wildlife Incidents</li> </ul>
<b>Mitigation and Monitoring of Direct Effects</b>				
Wildlife Protection	<ul style="list-style-type: none"> <li>Air Quality and Emissions</li> <li>Monitoring Program (AQEMP)</li> <li>VMP</li> </ul> <p>WMMP</p>	<p>As per the WMMP, the mitigation measures were implemented (as necessary) during 2023 to reduce potential sensory disturbance to wildlife including.</p> <p>Annual dustfall monitoring is completed as a component of the Air Quality Monitoring Program for Snap Lake, as outlined in the Air Quality and Emissions Monitoring and Management Plan (AQEMMP) (De Beers, 2017). The program measures the amount of fixed and total dustfall de position occurring both on and off the Mine site.</p>	Yes	<ul style="list-style-type: none"> <li>Section 2.3 - Sensory Disturbance</li> </ul> <p>Dustfall monitoring is reported in the 2023 Vegetation Monitoring Program Annual Report (Section 3.5).</p>
Caribou Protection Plan	<ul style="list-style-type: none"> <li>WMMP</li> </ul>	<p>Caribou interactions and mortalities at the Mine are monitored through the wildlife sightings log and incident monitoring. Mitigation measures were implemented as necessary in 2023.</p> <p>Zone of influence monitoring (ZOI) will be completed at the end of the Closure Phase.</p>	Yes	<ul style="list-style-type: none"> <li>Section 2.3.1 - Caribou Mitigation</li> <li>Section 3.1 - Caribou Monitoring</li> </ul>

Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report



**LEGEND**

- Snap Lake Mine
- Existing Mine
- Territorial Capital
- Populated Place
- All Weather Road
- Tibbit-to-Contwoyto Winter Road
- Winter Road
- Territorial/Provincial Boundary
- Watercourse
- Waterbody

Scale: 0 50 100  
1:3,500,000 KILOMETRES

**DISCLAIMER**  
 THIS FIGURE IS INTENDED FOR CLIENT'S ONE TIME USE ONLY AND IT IS NOT INTENDED OR REPRESENTED BY GOLDER TO BE SUITABLE FOR REUSE BY ANY PARTY, INCLUDING, BUT NOT LIMITED TO, THE CLIENT, ITS EMPLOYEES, AGENTS, SUBCONTRACTORS OR SUBSEQUENT OWNERS ON ANY EXTENSION OF A SPECIFIC PROJECT OR FUTURE PROJECTS, WHETHER CLIENT'S OR OTHERWISE, WITHOUT GOLDER'S PRIOR WRITTEN PERMISSION. ANY MANIPULATION, ADAPTATION, MODIFICATION, ALTERATION, MISUSE OR REUSE UNAUTHORIZED BY GOLDER WILL BE AT CLIENT'S SOLE RISK. GOLDER EXPRESSLY DISCLAIMS ALL LIABILITY AGAINST ALL THIRD PARTIES RELYING USING OR MAKING DECISIONS BASED ON THIS DRAWING. THIRD PARTIES DO SO AT THEIR OWN RISK, EXCEPT WHERE WRITTEN AGREEMENT STATES OTHERWISE, THIS DRAWING IS THE PROPERTY OF GOLDER.

**REFERENCES**  
 Base Data Source: The Atlas of Canada and CanVec obtained from Geogratis, © Department of Natural Resources Canada. All rights reserved. Datum: NAD 83 Projection: UTM Zone 12

CLIENT  
**DE BEERS GROUP**

PROJECT  
**SNAP LAKE MINE**

TITLE  
**LOCATION OF SNAP LAKE MINE**

CONSULTANT

YYYY-MM-DD	2020-10-30
DESIGNED	C. GRAY
PREPARED	L. STUART
REVIEWED	D. COULTON
APPROVED	D. COULTON

PROJECT NO. 10127883      PHASE 9300      REV. 0      FIGURE 1-1

Figure 1.1 Location of Snap Lake Mine

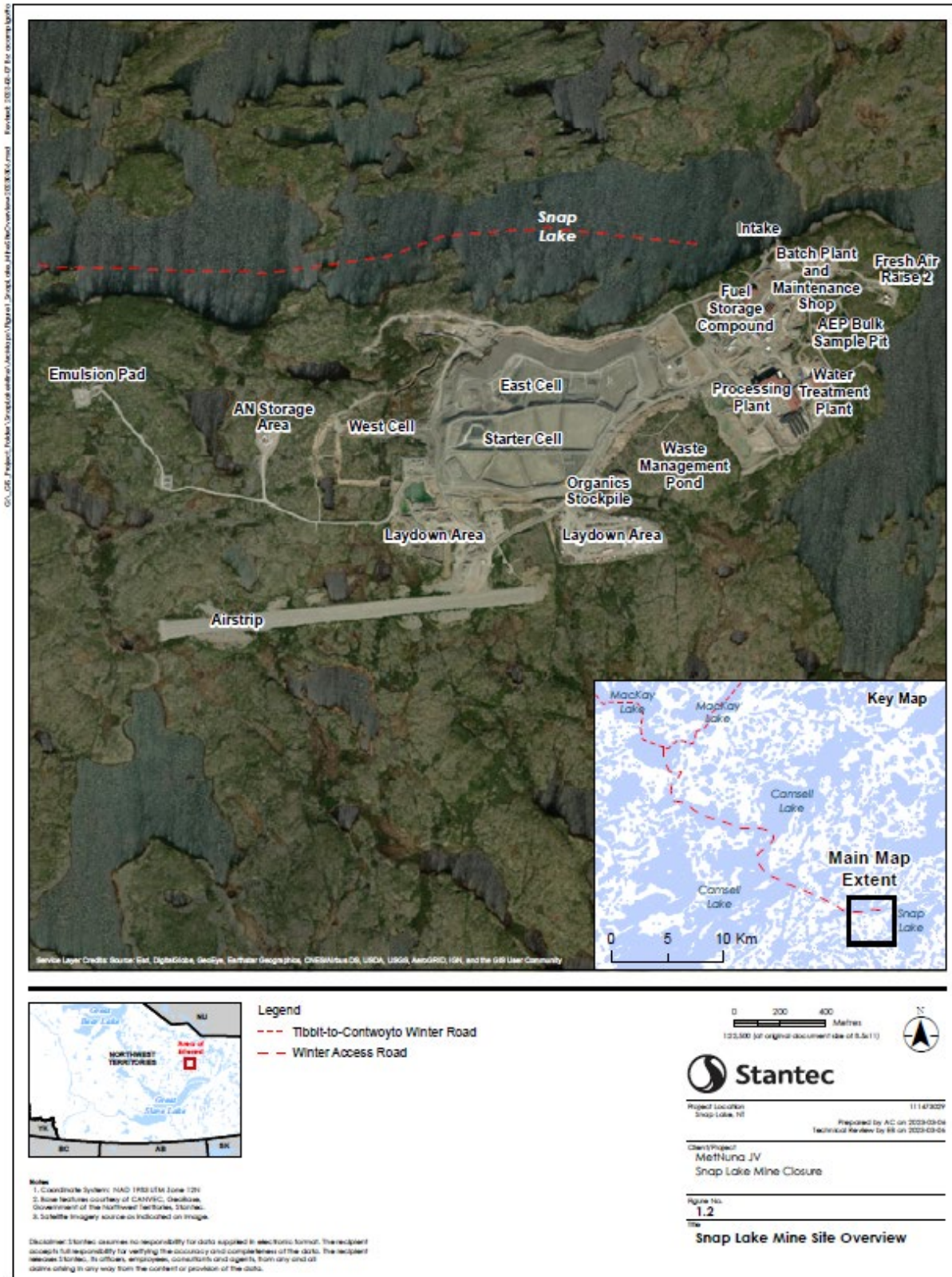


## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

### 1.2 Study Area

The area referenced in the WMMR includes the Mine site and the Winter Access Road (Figure 1.2).

# Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

## 2 Wildlife Mitigation

### 2.1 Wildlife Species of Concern

As defined in the WMMP, wildlife species of concern include wildlife species at risk (endangered, threatened, special concern) under the federal Species at Risk Act (SARA) and/or the territorial Species at Risk (NWT) Act. In addition, species of concern includes those species identified by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) but not yet listed by SARA or the Species at Risk (NWT) Act (De Beers 2021a).

Although all wildlife that interact with the Mine are recorded as part of the wildlife sightings log (see Section 3.3), the WMMP identified 11 species of concern that may interact with the Mine including two raptors, six migratory birds and three mammals (De Beers 2021a; Table 2.1).

Some of these species have potential to occur year-round while others such as barren-ground caribou, grizzly bear and migratory birds may interact with the Mine on a seasonal basis. The annual range of the Bathurst caribou herd overlaps the mine site where caribou can occur during spring and fall seasonal migration. The core winter range of the Bathurst caribou herd is located primarily south of the mine site and calving grounds are located near Bathurst Inlet (GNWT 2019).

The migratory bird nesting period for Nesting Zone C8 including species at risk extends from approximately early May to Mid-August (ECCC 2024, GOC 2019). The nesting period for raptors including owls is approximately March to the end of September (GNWT-ENR 2019, 2020).

**Table 2.1 Wildlife Species of Concern with Potential to Occur at Snap Lake Mine**

Species	NWT General Status Ranking <sup>1</sup>	Species at Risk (NWT) Act <sup>2</sup>	COSEWIC <sup>3</sup>	Species at Risk Act (SARA) <sup>4</sup>
Lesser yellowlegs ( <i>Tringa flavipes</i> )	Sensitive	No Status	Threatened	No Status
Red-necked phalarope ( <i>Phalaropus lobatus</i> )	Sensitive	No Status	Special Concern	Special Concern
Peregrine falcon ( <i>Falco peregrinus anatum-tundrius</i> complex)	Sensitive	No Status	Not at Risk	Not at Risk
Short-eared owl ( <i>Asio flammeus</i> )	Sensitive	No Status	Threatened	Special Concern

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

Species	NWT General Status Ranking <sup>1</sup>	Species at Risk (NWT) Act <sup>2</sup>	COSEWIC <sup>3</sup>	Species at Risk Act (SARA) <sup>4</sup>
Bank swallow ( <i>Riparia riparia</i> )	At Risk	No Status	Threatened	Threatened
Barn swallow ( <i>Hirundo rustica</i> )	Sensitive	No Status	Special Concern	Threatened
Harris's sparrow ( <i>Zonotrichia querula</i> )	Undetermined	No Status	Special Concern	Special Concern
Rusty blackbird ( <i>Euphagus carolinus</i> )	Sensitive	No Status	Special Concern	Special Concern
Barren-ground caribou ( <i>Rangifer tarandus groenlandicus</i> )	At Risk	Threatened	Threatened	Under consideration for addition to Schedule 1
Grizzly bear (western population) ( <i>Ursus arctos</i> )	Sensitive	No Status	Special Concern	Special Concern
Wolverine ( <i>Gulo gulo</i> )	Not at Risk	No Status	Special Concern	Special Concern

### NOTES:

- <sup>1</sup> Working Group on General Status of NWT Species. 2021. NWT Species 2021-2025 – General Status Ranks of Wild Species in the Northwest Territories, Department of Environment and Natural Resources, Government of the Northwest Territories, Yellowknife, NT. 389 pp.
- <sup>2</sup> Government of the Northwest Territories. 2024. Species at Risk in the Northwest Territories, 2024. Environment and Natural Resources, Government of the Northwest Territories, Yellowknife, NT.
- <sup>3, 4</sup> Government of Canada. 2024. Species at Risk Public Registry. Available at: <https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html>

## 2.2 Vegetation Loss

Closure activities contribute to effects on wildlife and wildlife habitat through direct habitat loss from vegetation clearing. Mitigation measures to reduce direct effects on wildlife habitat from vegetation loss include reducing areas of new clearing to the extent practical. During closure in 2023, and in accordance with the FCRP, minor vegetation grubbing was associated with excavation of identified areas of environmental concern. Infrastructure removal in other areas of the Mine were undertaken to prepare the site for grading and contouring. Additional mitigation measures will be implemented as described in the Final Revegetation Plan in future years of the Closure phase (De Beers 2020). Every five years (next in 2028), monitoring to assess change in wildlife habitat as observed through vegetation changes will be completed in accordance with the direction provided in the WMMP and the cumulative area of ELC units (vegetation types) reclaimed and revegetated will be included in the annual report once revegetation and reclamation are complete (De Beers 2021a).

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

### 2.3 Sensory Disturbance

Closure activities contribute to indirect effects on wildlife and wildlife habitat by influencing the quality of habitats adjacent to the physical footprint. Indirect effects are caused by sensory disturbances such as dust and noise.

During the winter of 2022/2023, occupancy was maintained in preparation for closure activities. Closure activities continued in 2023, with Site occupancy ranging from approximately 12 to 120 persons in the summer. The mine was placed in care and maintenance in December with only about 12 personnel present. There were no periods of zero occupancy in 2023.

During Year 2 of Closure, activities that had potential to disturb wildlife included construction and operation of the Winter Access Road, demolition activities, blasting and excavation of passive water management facilities, placement of North Pile closure cover, waste management and camp operations.

Earthworks activities continued through winter with the excavation of the East Influent Storage Pond to design elevations. Earthworks activities were also conducted in the North Pile, South Perimeter Ditch, North Perimeter Ditch, Laydown 1, West Cell Divider Dyke and the Quarry. Minor vegetation grubbing was done with the excavation of areas of environmental concern. Sump 3 (now East ISP), North Pile and the Water Management Pond were dewatered to facilitate earthworks. This included excavation of organic material and sediment from the Water Management Pond to construct the East ISP channel. Excavated organic material was dumped at the overburden stockpile while sediment was placed in the North Pile Cells per design.

Crushing operations at Snap Lake continued in 2023. Material was generated throughout 2023 based on the specifications for material needed for construction activities indicated by the design specifications. Material was produced and stockpiled at the for use during construction activities.

An inventory of the various waste streams remaining on-site was compiled in 2023. An inventory was completed on available areas and several waste streams were identified. As decommissioning progressed, the waste materials were stored in the approved location at the former ammonium nitrate storage building.

Demolition of structures and removal of overland pipes continued in 2023. Structures remaining in December 2023 included maintenance and laydown buildings, main camp, airport winter haven and communications buildings. Auxiliary generator units, water and wastewater treatment plants and incinerators remained in place to support continued mine closure activities in 2023. Work on setting up a temporary camp began in 2023.

As per the WMMP, the following mitigation measures were implemented (as necessary)

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

during 2023 to reduce potential sensory disturbance to wildlife including:

- Dust suppression through regular road watering was applied when required, based on visual observations.
- Speed limits (30 km/hr) were enforced to reduce the production of dust and noise.
- Speed limits were reduced when caribou and other large wildlife were within 200 m of roads.
- Snow berms along the Winter Access Road were maintained at heights of less than 1.6 m to not hinder wildlife movement.
- A minimum flying altitude of 300 m above ground level was implemented (except during takeoff and landing) for cargo and passenger aircraft outside of the Mine site.
- Personnel were prohibited from using personal recreational vehicles.
- A pre-blasting search for large mammals was conducted in the area within 1 km of the blasting site. Blasting will be delayed when large mammals are present within the search area.

### 2.3.1 CARIBOU MITIGATION

In addition to the mitigation measures outlined above, the following caribou mitigation measures were implemented (as necessary) during 2023:

- All sightings of caribou were reported to the on-site Environment Department and immediately communicated to all vehicle operators; (see Wildlife Sightings Log in Appendix B).
- Caribou were not blocked from crossing Mine-related roads or the airstrip. When caribou were crossing or attempting to cross the winter or site roads, then traffic was required to stop and wait for them to cross (caribou have the right of way).
- Aircraft were notified to enter a holding pattern until the caribou completed their crossing of the airstrip.
- Caribou within 100 m of the airstrip, site service roads, or winter access roads were monitored.
- Caribou were only herded away from roads or the airstrip in specific circumstances, such as an emergency and the following scenarios:
  - There were less than 100 caribou on the airstrip within 15 minutes of flight arrival.
  - Caribou were on the road or airstrip at the time of an emergency that requires the use of the road or airstrip.
  - Caribou were within 100 m of the airstrip 15 minutes prior to aircraft

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

arrivals or departures.

- When deterrent action is necessary, caribou were to be deterred from the airstrip by driving a truck down the strip, getting out of the vehicle, and making noise by yelling.
- All incidents involving interactions, use of deterrents or potential injury of caribou were documented and evaluated (see documented interactions in Table 3.3).

There were no interactions with caribou that required reporting to GNW-ENR in 2023.

### 2.4 Incidents and Mortalities

Closure activities can contribute to wildlife incidents including injury or mortality. As per the WMMP, the following mitigation measures were implemented (as necessary) during 2023 to reduce potential injury and mortality to wildlife:

- Employees and contractors were prohibited from hunting, trapping, harvesting, and fishing.
- Personal use of recreational vehicles was not permitted.
- There was zero tolerance toward harassment of wildlife.
- Speed limits (maximum of 30 km/hr) on roads were enforced.
- Wildlife always had the right of way on roads.
- Speed limits were reduced when caribou and other large wildlife were within 200 m of roads and Environment staff on site were notified.
- When vehicles were stopped at night due to wildlife presence, bright headlights were to be turned off, low beams or driving lights were to remain on.
- Drivers were warned with radio and signage when wildlife were moving through an area.
- Pre-demolition nest sweeps were conducted by qualified persons during the breeding season (May to August) (Section 3.2, Appendix A).
- Surveys for wildlife and raptor nests were conducted prior to commencing demolition activities.
- Deterrents were used to discourage birds and raptors from nesting on Mine infrastructure (Section 3.2, Appendix A).
- Bank swallows were discouraged from establishing colonies on sites or features by contouring slopes to less than 70 degrees.
- Active bird nests and inactive raptor nests were not removed.
- A species-specific and disturbance-specific buffer zone was used around active nests found at site, based on consultation with ECCC.

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

- When needed, wildlife deterrent actions were performed by designated individuals (such as the Environment staff or security staff).
- Training and education was provided to on-site personnel and visitors about wildlife awareness, waste management and wildlife safety.
- Waste management was conducted in accordance with the Management Plan. Corrective actions were communicated to site personnel.
- Designated indoor areas were identified for lunch and coffee breaks
- Food waste and non-food waste were separated through the use of designated garbage cans to prevent food waste from entering the landfill.
- Food waste and other attractants were incinerated regularly to reduce holding time and odors.
- Food waste, fuel waste and other potential animal attractants were stored inside buildings or bear-proof containers prior to incineration or transportation off-site for disposal.
- Hazardous material was stored securely, isolated and sent off site for recycling or disposal at an appropriate facility.
- The landfill was inspected and regularly covered.
- Measures to prevent, respond and remediate spills were implemented in accordance with the Spill Contingency Plan.

### 2.4.1 BIRD NEST DETERRENT, PROTECTION AND REMOVAL MEASURES

Closure activities in 2023 had potential to interact with migratory bird nests that are protected under federal and/or territorial legislation. Deterrent measures to reduce the potential for birds to nest on Mine infrastructure scheduled for decommissioning/demolition were implemented following the *Nesting Deterrence Procedures for Migratory Birds at the Snap Lake Mine* Operating Procedure (EP-DOP 015 of the WMMP).

Data collected regarding inactive nests were recorded in the appropriate EP-DOP 015 data collection forms. Active nests were managed in accordance with the EP-DOP 015 and the WMMP (De Beers 2021a). Specifically, pre-demolition nest searches of mine infrastructure were completed to identify active bird nests during the peak breeding period for migratory birds (mid-May to late June). Active bird nests were monitored until they were no longer occupied and subsequently removed (Section 3.2, Appendix A). Incidental wildlife sightings were also recorded (Section 3.3, Appendix B).

Where active nests were identified, activity setbacks were established and nests were monitored in accordance with guidance provided by ECCC. This included establishing no-



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

entry into doorways and setback distances for equipment and personnel. For cliff swallows this included a setback of approximately 5 m. For bank swallow, surveyed setbacks were established to 50 m, and were demarcated using stakes, pylons and flagging. All active nests were monitored until they were no longer occupied (i.e., birds had fledged). Unoccupied cavities in soil/granular material had been destroyed in late 2022 through regrading of slopes as part of approved closure designs, and to discourage nest prospecting in 2023.

### 2.4.1.1 Results

Overall, bird deterrents were limited to dismantling roofs and overhangs as practical, and installing physical barriers such as tarps and netting across openings and overhangs of buildings scheduled to be demolished in 2023. During 2023, one partly constructed common raven nest found on mine infrastructure was removed prior to the breeding bird season. A summary of bird nest removal activities and deterrent measures implemented during 2023 are provided in Appendix A, Table A-1).

## 3 Wildlife Monitoring

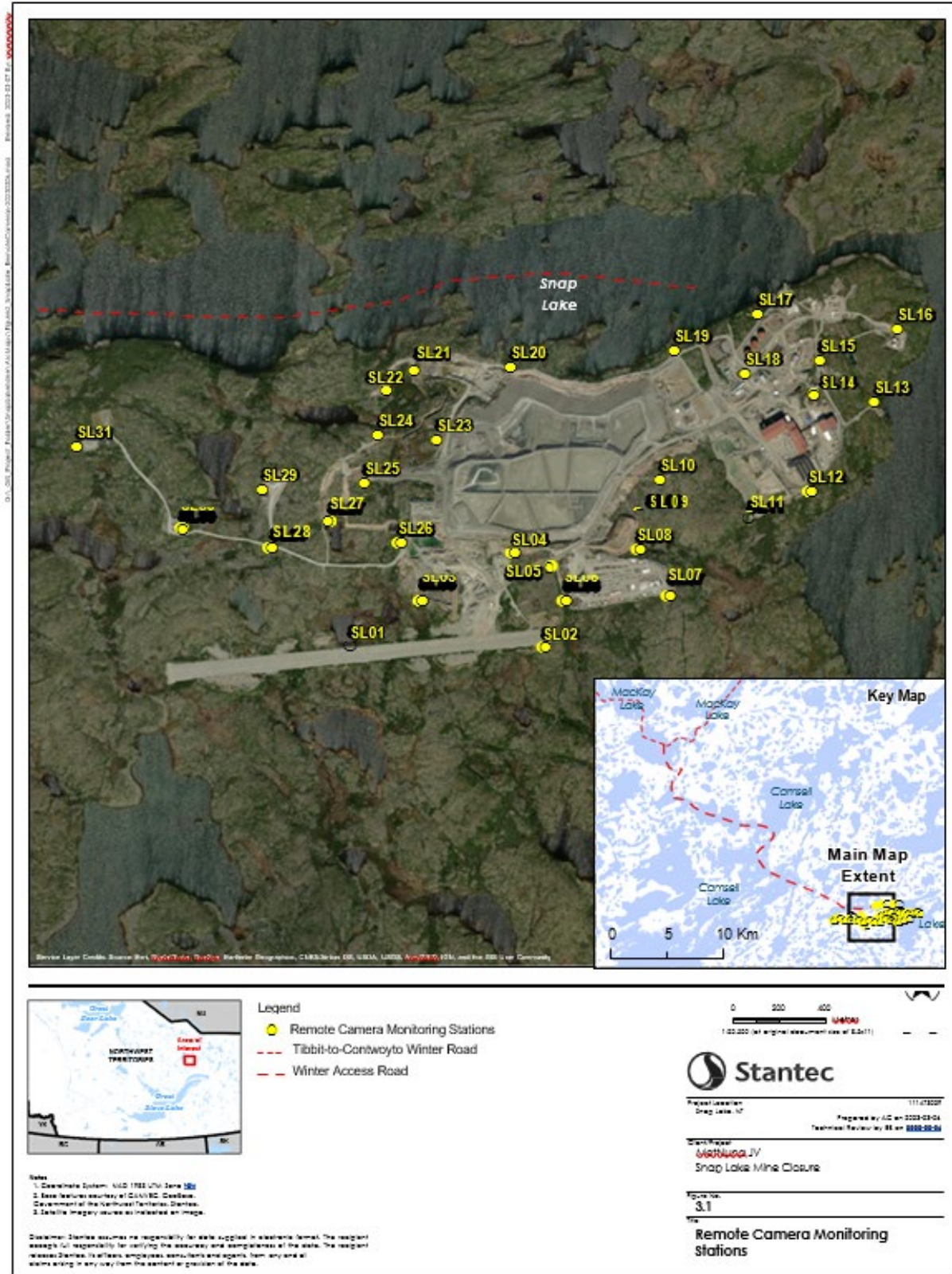
During 2023, wildlife monitoring included a record of incidental wildlife sightings, environmental inspections, waste inspections, nesting or nest deterrence monitoring, and wildlife incident management.

### 3.1 Caribou Monitoring

The Bathurst caribou will be monitored using GPS and satellite collar data to determine potential changes in distribution relative to the mine site using ZOI monitoring (De Beers 2021a). The GNWT-ENR will provide the collar data and De Beers will complete an analysis of caribou habitat use collar using the ZOI guidelines at the end of the closure period anticipated to be in 2024 (end of Closure activities). The analysis will include all data extending from 1996 to end of closure, and once during post-closure (1996 to post-closure), depending on availability of collar data in the Mine study area. Therefore, ZOI monitoring is not included in the scope of this 2023 WMMR.

In addition to ZOI monitoring, remote camera monitoring is required to be implemented during periods of zero occupancy at the Mine site and during post-closure. In 2022, the remote camera station locations were selected, and posts were installed for future camera placement (see Figure 3.1).

# Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

### 3.2 Bird Nest Monitoring

In 2023, active nests monitored throughout the breeding bird season included several cliff swallow colonies and one barn swallow nest located on or within Mine buildings. Five bank swallow colonies located within cavities on several banks and berms were also monitored.



Figure 3.2 Bird Nest Sites

#### 3.2.1 CLIFF SWALLOW

##### 3.2.1.1 Methods

19

Active cliff swallow colonies identified on Mine buildings were monitored during the breeding season until the nests were no longer occupied (i.e., birds had fledged). Each nest within a colony was monitored for 5 minutes using binoculars on several occasions. The number of individuals (adults, young), behaviour (carrying food, flying in/out, guarding, etc.) were recorded.

##### 3.2.1.2 Results

Two cliff swallow colonies were monitored from late May to mid August, 2023 to

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

determine occupancy and number of active nests.

### **3.2.2 BANK SWALLOW**

In June, several cavities were observed by Environment staff at the Mine at nesting locations within the North Pile, EISP and other bank locations on site, Monitoring of five locations of cavities continued from Early June until late August.

#### **3.2.2.1 Methods**

Five bank swallow nesting cavity sites were monitored at the Mine site during 2023 (Figure 3.2). Each site was visited during the breeding season to determine nest status and number of birds present. Nesting sites were observed for approximately 30 minutes at each location. Monitoring occurred more frequently to establish when nests were no longer active.

### **3.2.3 BARN SWALLOW**

One barn swallow nest was found June 6th on top of a light fixture within a small red building near the parking area. A sign and buffer area was setup to ensure the area was not disturbed. During monitoring two birds were seen flying in and out of the building. The nest was monitored from June until August 21st when it was determined that the nest was no longer active.



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

### 3.3 Wildlife Sightings Log

Environment staff, mine employees and contractors recorded incidental wildlife observations at the Mine site from January 1, 2023 to December 31, 2023 (see Appendix B). A total of 57 different wildlife species were observed in 2023, including 14 mammals and 43 bird species. Seven species at risk were observed including barren-ground caribou, grizzly bear, wolverine, bank swallow, barn swallow, Harris's sparrow and yellow warbler (*Setophaga petechia*). Barren-ground caribou, muskox common raven (*Corvus corax*), ptarmigan sp. and arctic hare (*Lepus arcticus*) were the most frequently observed wildlife species. Barren-ground caribou were observed on 168 occasions. Caribou were observed throughout the Mine but were most frequently observed near the airstrip, and other various locations throughout site. Group size varied from one to several hundred individuals. Overall, the wildlife species incidentally observed at the Mine site during 2023 were similar to the wildlife species/groups observed during 2022 & 2019 (De Beers 2021b).

### 3.4 Wildlife Incidents

As defined in the WMMP (De Beers 2021), an incident is any wildlife interaction that requires a response by Mine personnel requiring action such as the use of deterrents, or result in property damage, injury or death of wildlife.

Eleven wildlife incidents were recorded in 2023. (Table 3.3). Incidents included six situations where personnel were required to take action for the safety of the wildlife or employees. A detailed description of wildlife incidents and responses is provided in Table 3.3.

**Table 3.3 Summary of Wildlife Incidents Recorded at Snap Lake Mine during 2023 Closure**

Date	Nature of incident	Mitigation taken
16-Mar-23	Caribou in blast radius	Attempted to allow the caribou to move out of the area on their own, shepherded approximately 1 km out of the blast area
25-Apr-23	Lone young caribou found limping onsite	Traffic was halted in the direction the caribou was traveling until it was off the roadways heading south toward Snap Lake
13-Jun-23	3 muskox on runway	Attempts were made to guide the muskox away from the runway using various noises, the muskox left the runway allowing the plane to land safely

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

14-Jun-23	Muskox organics potentially trapped on pile being by equipment	Haul traffic was halted until the muskox moved to a safe distance
21-Jun-23	Deceased swallow located	A pipe had been removed revealing a desiccated swallow
3-Jul-23	Deceased arctic hare located	A small gap was found in an upright culvert beside the 12 million litre tank farm, snow fence was installed and weighed down to prevent any other small wildlife entering.
14-Jul-23	Deceased swallow located	Found next to an open excavation filled with contaminated water. Attempted to remove surface contaminants, and further a filtration system was installed nearby.
15-Aug-23	Young bird found on ground	Attempted to usher it to a safer location and monitored area for 30 minutes
21-Aug-23	3 deceased young swallow located	Building was previously barricaded off due to the nest in the building. The young were collected and incinerated, and building was removed after nest was deemed abandoned.
8-Sep-23	Deceased common redpole located	Corpse was recovered and incinerated
5-Oct-23	Wolverine proximity of personnel	Noise deterrents implemented and unsuccessful at moving the wolverine on. A rubber pellet was fired to deter damage to a vehicle it was inspecting, the wolverine then left the area and wasn't sighted the rest of shift.

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

### 4 Adaptive Management

Wildlife (birds and mammals) were observed at the Mine in 2023 mostly without incident or injury to wildlife, which indicates mitigation measures implemented to reduce potential effects of decommissioning and closure activities on wildlife have been effective. Bird mortalities included situations where the nest had been left. Nest sweeps are done and discovered nests are monitored and buffers setup. No further mitigation is recommended to reduce potential bird mortalities.

Bird deterrents will continue to be a priority to reduce potential interactions with mine infrastructure; however, most infrastructure at the mine has now been demolished. Bank swallow mitigation will also be enhanced to deter potential nesting activities on granular slopes by maintaining slopes less than 70 degrees, or less if possible. Overall, De Beers will continue to implement the existing mitigation measures and wildlife monitoring as provided in the WMMP (De Beers 2021); results from 2023 have indicated that mitigations are working as intended and no changes are recommended at this time.

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

### 5 References

De Beers. 2020. Snap Lake Mine Revegetation Plan. Appendix J of the Snap Lake Mine Final Closure and Reclamation Plan. August, 2020. Prepared for De Beers Canada Inc. by Arktis Solutions Inc.

De Beers. 2021a. Snap Lake Mine – Tier 2 Wildlife Management and Monitoring Plan (December 2021).

De Beers, Calgary, AB.

De Beers. 2021b. Wildlife and Wildlife Habitat Protection Plan 2019 Annual Report.

ECCC (Environment and Climate Change Canada). 2024. General nesting periods of migratory birds. Available at: <https://www.canada.ca/en/environment-climate-change/services/avoiding-harm-migratory-birds/general-nesting-periods/nesting-periods.html>.

GNWT (Government of the Northwest Territories). 2019. Bathurst Caribou Range Plan. Environment and Natural Resources, Government of the Northwest Territories, Yellowknife, NT. 86 + iii pp.

GNWT-ENR (Environment and Natural Resources). 2019. A Field Guide to Raptors of the Northwest Territories. Environment and Natural Resources, Government of the Northwest Territories. Yellowknife, NT 39pp. Available at: [https://www.enr.gov.nt.ca/sites/enr/files/resources/3488\\_gnwt-enr-raptors-fieldguide-eng-final-web.pdf](https://www.enr.gov.nt.ca/sites/enr/files/resources/3488_gnwt-enr-raptors-fieldguide-eng-final-web.pdf)

GNWT– ENR. 2020. A Field Guide to Owls of the Northwest Territories. Environment and Natural Resources, Government of the Northwest Territories. Yellowknife, NT. Available at: [https://www.enr.gov.nt.ca/sites/enr/files/resources/owl\\_booklet-en-web\\_low\\_res\\_oct\\_1\\_2020.pdf](https://www.enr.gov.nt.ca/sites/enr/files/resources/owl_booklet-en-web_low_res_oct_1_2020.pdf)

GOC (Government of Canada). 2019. *Species at Risk Act* Public Registry. Residence Descriptions. Description of residence for Bank Swallow (*Riparia riparia*) in Canada.




GOC. 2024. Species at Risk Act Public Registry. Available at: <https://species-registry.canada.ca/>









**Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report**




**Appendix A Bird Nest Removal and Monitoring Log**

**Table A.1 Summary of Nest Removal and Monitoring at the Snap Lake Mine during 2023 Closure**

Nest Sighting/Removal					
Date	Coordinates	Location	Species	Comment	Photo
6-Apr-23		Utilities 500,000L Tank	Raven	[April 6, 2023] Found some sticks [April 7, 2023] nest material removed, [April 8, 2023] nest material removed . [April 9, 2023] nest material removed.	
9-Apr-23		Comm. Tower	Raven	[April 9, 2023] Nest material observed. (April 30, 2023) Nest left intact. Raven's have completed nests	
20-May-23	0506692 E 7052649 N	Carpenter shop	Cliff Swallow	[May 20, 2023] Old nest found [May 24, 2023] Old nest occupied. Colony #CS01 <b>CLSW-01</b> [August 12, 2023] Nests no longer occupied.	

<p>28-May-23</p>	<p>0505709 E 7052063 N</p>	<p>Logistics Igloo</p>	<p>Cliff Swallow</p>	<p>[May 23, 2023] Spotted cliff swallows flying in and out of the logistics igloo. [May 28, 2023] Cliff swallows building nest in logistics igloo. [June 8, 2023]: 20+ nests are active <b>CLSW-02</b> [August 16, 2023]: Nests are no longer active.</p>	
<p>7-Jun-23</p>	<p>505005 E 7053025N</p>	<p>WISP constructed habitat</p>	<p>Bank swallow</p>	<p>Single cavity on north side of soil pile; 5-6 CLSW seen flying near and over WISP <b>BANS-02</b></p>	
<p>7-Jun-23</p>	<p>506452 E 7052662 N</p>	<p>Red shack at entrance to parking area</p>	<p>Barn swallow</p>	<p>Mud cup nest on top of light fixture; no bird activity [June 9]: Nest is active, 2 birds flying in and out of building <b>BARS-01</b> [August 21]: Nests are no longer active.</p>	

7-Jun-23	0506690 E 7052599 N	Under old kitchen, east side	Unknown - suspected America robin	Grass nest (15 cm) on timber truss; no bird activity	
8-Jun-23	0505484 E 7052673 N	south end of Rib berm between Cell 2-3, west facing	Bank swallow	Three cavities; northern-most one had 2 bank swallows entering/exiting <b>BANS-01</b>	
15-Jun-23		east side of EISP spillway	Bank swallow	At least 12 bank swallows entering/exiting <b>BANS-03</b> [August 21]: No activity observed at nests	

16-Jun-23		North side of EISP	Bank swallow	At least 12 bank swallows entering/entering <b>BANS-04</b> [August 26]: No activity observed at nests	
18-Jun-23		Cell LF-SQ of the North Pile	Bank swallow	<b>BANS-06</b>	
19-Jun-23		Flatbed truck trailer #1309 at Logistics Laydown	Robin	Robin's nest with 3 eggs was observed. [June 27] 2 robin checks and 1 egg was observed	
11-Jul-23		North Ditch	American Pipit	[August 8]: Nest was no longer active	



**Appendix B Wildlife Sightings Log**

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

Table B.1 Wildlife Sightings Log

Snap Lake Wildlife Monitoring Log								Year: 2023 Sheet:
Date	Time	Species	Sex/Age (if known)	Number	Location / Habitat	Behaviour/Activity	Name	Company
1-Jan-23	14:52	Raven		2	Process plant	Sitting	Heidi	Stantec
1-Jan-23	16:48	Fox		1	Behind utility station	Walking	Tristan	Terra
1-Jan-23	NR	Fox		1	Air inlet	NR	Heidi	Stantec
1-Jan-23	NR	GyrFalcon		1	Crusher	Flying	Matt	Nuna
1-Jan-23	NR	Wolf		1	Up and over the North pile from Snap Lake	NR	Heidi	Stantec
2-Jan-23	NR	Fox		1	Behind kitchen	Walking	Heidi	Stantec
2-Jan-23	NR	Ptarmigan		25	North side of airstrip	Flying	Heidi	Stantec
2-Jan-23	NR	Caribou		31	Old emulsion plant	Walking	Heidi	Stantec
2-Jan-23	15:00	Ptarmigan		1	FAR	Wildlife incident - Carcass found	Heidi	Stantec
3-Jan-23	NR	Fox		1	Kitchen	Fox skat found	Heidi	Stantec
3-Jan-23	NR	Raven		1	NR	Raven took ptarmigan carcass back of truck	Heidi	Stantec
4-Jan-23	NR	Fox		1	Kitchen/FAR/Utility tank	Fox tracks	Heidi	Stantec
6-Jan-23	14:45	Raven		1	Main camp parking lot	Sitting back of truck	Heidi	Stantec
7-Jan-23	11:30	Caribou		100	Near airstrip	Walking	Shawn	Stantec
7-Jan-23	13:20	Raven		1	Parking lot	Inspecting LV truck boxes	Shawn	Stantec
8-Jan-23	11:00	Caribou		8	Airstrip	Walking	Shawn	Stantec
8-Jan-23	11:05	Caribou		22	Snap Lake north side	Walking	Shawn	Stantec
10-Jan-23	6:30	Wolf		1	Dam 1	Wolf tracks B.32	Shawn	Stantec
11-Jan-23	14:58	Raven		1	Crusher pile	Sitting	Christine Shawn	Stantec
11-Jan-23	15:11	Raven		1	LV shop	Flying	Christine Shawn	Stantec
13-Jan-23	8:00	Wolf tracks		1	Behind camp building	Walking	Unknown	Nuna
14-Jan-23	11:54	Ptarmigan		40+	Front of crusher	Walking/Resting	Christine Shawn	Stantec
15-Jan-23	8:00	Hawk		1	Crusher area	Flying	Unknown	Nuna
16-Jan-23	14:50	Raven		1	Main camp	Flying	Christine Shawn	Stantec



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

16-Jan-23	NR	Ptarmigan		Unknown	NR	NR	Unknown	Nuna
17-Jan-23	14:17	Caribou		2	Near AN building	Grazing	Christine Shawn	Stantec
17-Jan-23	NR	Ptarmigan		Unknown	NR	NR	Unknown	Nuna
19-Jan-23	15:00	Raven		1	Generators	Flying/Landing	Christine Shawn	Stantec
20-Jan-23	NR	Raven		1	Parking lot	Flying	Unknown	Nuna
21-Jan-23	14:00	Raven		1	Main camp	Flying	Christine Shawn	Stantec
21-Jan-23	14:34	Raven		1	PM2.5	Flying	Christine Shawn	Stantec
21-Jan-23	14:45	Ptarmigan		6	Near Enviro. Shop	Flying	Christine Shawn	Stantec
21-Jan-23	16:30	Caribou		10	MEG	Walking	Bill	Nuna
22-Jan-23	7:00	Fox		1	Hording on the North ditch	Walking	Unknown	Nuna
22-Jan-23	NR	Fox		1	North ditch	Walking	Unknown	Nuna
22-Jan-23	NR	Ptarmigan		Unknown	NR	NR	Unknown	Nuna
22-Jan-23	NR	Raven		1	NR	NR	Unknown	Nuna
23-Jan-23	14:45	Squirrel		1	In the Enviro. Shop	Walking/Resting	Christine Shawn	Stantec
24-Jan-23	13:43	Fox		1	Airstrip	Walking	Unknown	Nuna
24-Jan-23	14:31	Fox		1	North ditch	Walking	Tyler	Contour
25-Jan-23	9:00	Ptarmigan		1	Blue porta Potty #3 or #4	Walking	Unknown	Nuna
25-Jan-23	15:52	Raven		2	Road towards AN bilding	Resting	Christine Nicola	Stantec
26-Jan-23	15:50	Raven		1	North ditch	Flying	Christine Nicola	Stantec
29-Jan-23	8:48	Wolverine		1	Airstrip	Running	JP	Nuna
29-Jan-23	15:44	Raven		1	North pile	Flying	Christine Nicola	Stantec
29-Jan-23	16:24	Raven		2	Main camp	Landing	Christine Nicola	Stantec
30-Jan-23	15:40	Raven		1	WMP	Flying	Christine Nicola	Stantec
31-Jan-23	14:30	Fox		1	Crusher Pile	Sleeping	Unknown	Nuna
31-Jan-23	15:00	Caribou		~50	East of SLM	Resting B.33	Ryan Bremner	Stantec
31-Jan-23	15:30	Ptarmigan		8	NR	Walking	Unknown	Nuna
1-Feb-23	NR	Caribou		~50	Across Lake	NR	Tim	QM
2-Feb-23	15:00	Raven		1	Parking lot	Flying	Nicola Mark	Stantec
3-Feb-23	10:00	Ptarmigan		20	Next to Camp	Standing / Walking	Ryan Bremner	Stantec
3-Feb-23	13:30	Fox		1	Winter Road Dispatch	NR	NR	Nuna
3-Feb-23	14:00	Ptarmigan		1	Near Lake	Standing	Nicola Mark	Stantec
3-Feb-23	14:30	Fox		1	AN Road	Walking	Nicola Mark	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

5-Feb-23	9:30	Cross-fox		1	Crusher	Sitting	Ryan Bremner	Stantec
6-Feb-23	NR	Wolverine		1	Portage II	Running	John	Nuna
6-Feb-23	9:30	Ptarmigan		12	Comm Tower	Standing / Walking	Ed	Nuna
6-Feb-23	13:00	Ptarmigan		12	NR	Walking	Unknown	Nuna
10-Feb-23	10:00	Caribou		4	Emulsion Area	Standing	Ed	Nuna
10-Feb-23	10:30	Caribou		~30	Airstrip	Resting	Ed	Nuna
10-Feb-23	16:30	Fox		1	Airstrip	Running	Ed	Nuna
11-Feb-23	12:15	Fox		1	Quarry	NR	Matt	Nuna
11-Feb-23	12:15	Ptarmigan		1	Quarry	Standing	Matt	Nuna
11-Feb-23	13:00	Ptarmigan		6	Crossing the road	Walking	Unknown	Nuna
11-Feb-23	14:30	Ptarmigan		12	Main Road	Standing	Ryan Bremner	Stantec
11-Feb-23	14:30	Caribou		~7	Southwest Airstrip	Feeding	Natalie Nicola	Stantec
11-Feb-23	14:45	Cross-fox		1	Emulsion Area	Running	Natalie Nicola	Stantec
12-Feb-23	13:45	Cross-fox		1	Logistics	NR	Dave	Nuna
13-Feb-23	12:30	Wolverine Tracks		Unknown	Powder Mags	NR	Ed	Nuna
13-Feb-23	14:00	Caribou		~100	Snap Lake	Resting	Natalie Nicola	Stantec
13-Feb-23	14:15	Ptarmigan		3	Incinerator	NR	Ed	Nuna
13-Feb-23	14:30	Ptarmigan		7	WMP	NR	Ryan Bremner	Stantec
14-Feb-23	16:20	Raven		1	Over Kitchen	Resting	Shawn	Stantec
15-Feb-23	13:30	Caribou		~50	Explosive Mags	Walking	Ed	Nuna
16-Feb-23	15:00	Caribou		~20	West of airstrip	Resting	Shawn Natalie	Stantec
17-Feb-23	9:00	Wolverine tracks		Unknown	NR	NR	Unknown	Nuna
17-Feb-23	15:32	Raven		1	Sump 3	Flying	Shawn Natalie	Stantec
17-Feb-23	15:45	Caribou		32	West of airstrip	Resting B.34	Shawn Natalie	Stantec
18-Feb-23	12:30	Caribou		8	On road	Walking	Unknown	Nuna
18-Feb-23	14:49	Raven		1	Above Generator	Resting	Shawn Natalie	Stantec
18-Feb-23	15:05	Caribou		~15	Emulsion Area	Grazing	Shawn Natalie	Stantec
18-Feb-23	15:20	Ptarmigan		3	Comm Tower	Walking	Shawn Natalie	Stantec
19-Feb-23	15:56	Caribou		2	West of Emulsion area	Resting	Shawn Natalie	Stantec
22-Feb-23	13:00	Caribou		~35	Portage I	Grazing	Scott	Nuna
22-Feb-	14:4	Caribou		~200	Between	Walking	JP	Nuna

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23	0			-300	Portage I and II			
23-Feb-23	16:22	Raven		1	LV shop	Resting	Christine Shawn	Stantec
23-Feb-23	16:27	Raven		1	Main Parking Lot	Flying	Christine Shawn	Stantec
25-Feb-23	13:37	Raven		1	Logistics	Flying	Christine Shawn	Stantec
25-Feb-23	15:52	Caribou		12	Airstrip	Grazing	JP	Nuna
26-Feb-23	15:32	Caribou		~50	South of Gazebo on Snap Lake	Resting	Christine Shawn	Stantec
26-Feb-23	NR	Caribou		7	Portage 1,2	Resting	Scott	Nuna
27-Feb-23	14:45	Squirrel		1	Environmental Shop	Eating	Christine Shawn	Stantec
27-Feb-23	14:59	Caribou		12	AN Building	Grazing	Christine Shawn	Stantec
28-Feb-23	13:45	Raven		1	Parking lot	Flying	Christine Shawn	Stantec
1-Mar-23	13:53	Raven		1	LV shop	Flying	Christine Shawn	Stantec
1-Mar-23	16:04	Caribou		~100+	Portage 13,10,4,3	Resting	Christine Shawn	Stantec
1-Mar-23	16:40	Ptarmigan		5	Portage 3	Flying	Christine Shawn	Stantec
1-Mar-23	16:58	Wolf		4	Portage 1	Running	Christine Shawn	Stantec
2-Mar-23	13:11	Caribou		~300+	AN Building	Resting	Unknown	Nuna
3-Mar-23	8:00	Artic Hare		1	LV fuel shop	Walking	Unknown	Nuna
3-Mar-23	11:06	Wolf		1	Portage 8	Rolling on ice	JP	Nuna
3-Mar-23	11:06	Raven		1	Portage 8	Watching wolf roll on ice	JP	Nuna
4-Mar-23	13:14	Caribou		~60	West of airstrip	Resting	Scott	Nuna
4-Mar-23	14:24	Caribou		10	South of Laydown 1	Resting	Christine Shawn	Stantec
4-Mar-23	14:32	Raven		1	AN Building	Flying	Christine Shawn	Stantec
5-Mar-23	12:00	Ptarmigan		12	Utilities tank	Picking gravel	Unknown	Nuna
5-Mar-23	13:43	Caribou		~70	Snap Lake	Resting	Christine Shawn	Stantec
5-Mar-23	13:46	Raven		1	Incinerator	Flying	Christine Shawn	Stantec
5-Mar-23	13:52	Caribou		~25	Airstrip	Resting/Grazing	Christine Shawn	Stantec
6-Mar-23	12:00	Ptarmigan		16	On road in front of the dispatch trailer	Walking	Unknown	Nuna
6-Mar-23	13:47	Ptarmigan		4	PM 2.5 station	Walking	Christine Shawn	Stantec
6-Mar-23	14:21	Caribou		25	Explosive Mags	Grazing	Christine Shawn	Stantec
6-Mar-23	14:52	Caribou		47	Airstrip	Resting/Grazing	Christine Shawn	Stantec
6-Mar-23	15:00	Ptarmigan		3	Airstrip	Flying	Christine Shawn	Stantec
8-Mar-23	7:15	Caribou		~50	SE Snap Lake	Walking	JP	Nuna

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

8-Mar-23	7:30	Raven		1	Camp parking lot	Flying	Christine Nicola	Stantec
8-Mar-23	8:00	Ptarmigan		8	Walking on the road around the airport and crusher	Walking	Unknown	Nuna
8-Mar-23	15:30	Raven		1	Water Treatment Building	Flying	Christine Nicola	Stantec
9-Mar-23	10:08	Raven		1	North Pile	Flying	Christine Nicola	Stantec
9-Mar-23	11:00	Ptarmigan		4	North ditch	Walking	Christine Nicola	Stantec
9-Mar-23	14:00	Raven		1	Gazebo	Flying	Christine Nicola	Stantec
10-Mar-23	9:10	Caribou		~12	Emulsion Area	Walking	Ed	Nuna
10-Mar-23	10:30	Raven		1	Parking lot	Flying	Christine Nicola	Stantec
10-Mar-23	11:30	Caribou		~100+	Snap Lake (Ice Rd)	Walking	Christine Nicola	Stantec
10-Mar-23	15:00	Ptarmigan		10	North Ditch	Flying	Christine Nicola	Stantec
10-Mar-23	16:00	Arctic Hare		1	Waste Management	Resting	Christine Nicola	Stantec
10-Mar-23	16:30	Fox		1	North Ditch	Walking	Unknown	Contour
11-Mar-23	8:30	Fox		1	North Ditch	Walking	Christine Nicola	Stantec
11-Mar-23	14:40	Ptarmigan		2	Airstrip	Flying	Christine Nicola	Stantec
11-Mar-23	15:00	Caribou		~20	Snap Lake	Walking	Bill	Nuna
11-Mar-23	16:30	Caribou		~20	FAR	Walking	Corey	Nuna
12-Mar-23	8:00	Caribou		20	NR	NR	Unknown	Nuna
12-Mar-23	14:50	Fox		1	North Ditch	Walking	Jared	WSP
12-Mar-23	17:00	Fox		1	Carpentry shop	Walking	Tim	QM
12-Mar-23	17:00	Caribou		20			Hazard Card	Nuna
13-Mar-23	9:30	Wolverine		1	Snap Lake	Hunting caribou	Stephen	Nuna
13-Mar-23	12:20	Fox		1	Between FAR and LV shop	Walking	Unknown	Nuna
14-Mar-23	11:30	Fox		1	South Ditch	Running	Ray	Breakaway
14-Mar-23	12:00	Fox		1	Emulsion Area/AN building	Running B.36	Darren	Debeers
14-Mar-23	12:00	Wolf		1	Airport	Running	Hazard Card	Nuna
15-Mar-23	7:30	Caribou		Unknown	Southeast side of Laydown 1	Resting	Julian	Nuna
15-Mar-23	7:40	Caribou		2	West of east ISP	Unknown	Antoine	Stantec
15-Mar-23	9:00	Caribou		16	East of Laydown 1	Grazing	Mark Nicola	Stantec
15-Mar-23	NR	Wolves		3	Portage 10	Playing	Ice Rd Guys	Nuna
15-Mar-	13:4	Caribou		66	South of camp	Walking/Restin	Mark Nicola	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23	5				on Snap Lake	g		
15-Mar-23	14:55	Caribou		15	Southeast of Runway	Grazing, resting	Mark Nicola	Stantec
16-Mar-23	9:20	Caribou		~10	East of Laydown 1	Resting	Dave	Nuna
16-Mar-23	10:00	Caribou		~100	Snap Lake South of camp	Resting	Mark Nicola Ryan	Stantec
16-Mar-23	16:30	Raven		1	LV shop	Flying	Mark	Stantec
17-Mar-23	8:00	Fox		1	South ditch by laydown 1	Walking	Unknown	Nuna
17-Mar-23	9:00	Caribou		Unknown	South of Laydown 1	Standing/grazing	Owen	Nuna
17-Mar-23	11:20	Fox		1	Incinerator	Steeling Shovels	Unknown	Nuna
17-Mar-23	11:20	Fox		1	South ditch by laydown 1			
17-Mar-23	11:20	Fox		1				
17-Mar-23	11:20	Caribou		20	Laydown 1			
17-Mar-23	12:00	Caribou		20	Radio call out Caribou 20 plus on edge of laydown 1	Walking/Grazing	Unknown	Nuna
17-Mar-23	12:00	Fox		1	Stole showel	NR	Unknown	Nuna
17-Mar-23	4:00	Ptarmigan		2	Hill Station	Walking	Nicola Mark Ryan	Stantec
17-Mar-23	21:00	Caribou		~46	WMP	Walking/standing	Ryan	Stantec
18-Mar-23	8:00	Wolf		1	Snap Lake	Chasing Caribou	Hazard Card	Nuna
18-Mar-23	8:00	Caribou		30	Snap Lake	Running	Hazard Card	Nuna
18-Mar-23	8:00	Wolverine		1	Portage 6	Walking	Hazard Card	Nuna
18-Mar-23	8:00	Caribou		5	Dam 1	Standing	Julian	Nuna
18-Mar-23	11:45	Caribou		~50	SE of Laydown 1	Unknown	Unknown	Unknown
18-Mar-23	12:00	Fox		1	WMP	Walking	Unknown	Nuna
18-Mar-23	12:15	Wolf		1	Snap Lake behind camp	Chasing Caribou	Pete	Debeers
18-Mar-23	15:30	Caribou		~100	Snap Lake Winter Spur road and Main ice Rd	Lying down	Ryan Nicola	Stantec
18-Mar-23	16:00	Wolverine		1	Portage 5	Running across ice rd	Ryan Nicola	Stantec
18-Mar-23	16:00	Fox		1	Laydown 1	Walking	Julian	Nuna
19-Mar-23	8:00	Caribou		5	WMP	Grazing	Ryan	Stantec
19-Mar-23	13:00	Caribou		7	South of Laydown 1	Grazing	Nicola Mark Ryan	Stantec
19-Mar-23	15:21	Caribou		~30	Met Hill	Grazing	Nicola Mark Ryan	Stantec
19-Mar-23	15:00	Caribou		4	South of camp on Snap Lake	Walking/resting	Nicola Mark Ryan	Stantec
20-Mar-23	8:00	Caribou		10	Dam 1	Walking/grazing	Pat	Nuna

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

20-Mar-23	12:10	Fox		1	WMP	-	Unknown	-
20-Mar-23	16:00	Caribou		35	Met Hill	Grazing/resting	Nicola Mark Ryan	Stantec
21-Mar-23	15:50	Caribou		10	Dam 1	Walking/grazing	Nicola Mark Natalie	Stantec
22-Mar-23	6:45	Caribou		~6	WMP	Grazing/walking	Matt	Nuna
22-Mar-23	7:35	Caribou		~12	Gazebo	Resting	Nicola Mark Natalie	Stantec
22-Mar-23	10:00	Fox		1	WMP	Walking	Antoine	Stantec
22-Mar-23	13:30	Raven		2	Parking lot	flying/eating garbage out of a truck	Natalie Nicola	Stantec
22-Mar-23	14:10	Caribou		~35	Hill east of laydown 1	Resting/grazing	Natalie Nicola	Stantec
23-Mar-23	13:40	Caribou		2	FAR	Grazing	Tristan	Terra
23-Mar-23	15:15	Caribou		~40	Snap Lake behind camp	Walking/resting	Nicola Natalie	Stantec
23-Mar-23	15:40	Caribou		~35	Hill across from Laydown 1	Grazing	Nicola Natalie	Stantec
24-Mar-23	14:30	Caribou		~25	North of Gazebo	Resting/Walking/Grazing	Natalie/Nicola	Stantec
24-Mar-23	14:45	Caribou		~15	On Snap Leak near FAR	Walking	Natalie/Nicola	Stantec
24-Mar-23	15:10	Cross Fox		1	Landfill	Walking/Scavenging	Natalie/Nicola	Stantec
24-Mar-23	15:30	Muskox		~50	Hill NE of Snap Lake	Walking/Standing	Ed Loveless	Nuna
24-Mar-23	16:00	Caribou		~35	Hill near Hill Station	Resting/Grazing	Natalie/Nicola	Stantec
24-Mar-23	16:00	Raven		~1	Camp Parking Lot	Flying	Natalie/Nicola	Stantec
25-Mar-23	8:00	Wolf (potentially)		~5	Behind WTP	Chasing Caribou (potentially)	Kjell	QM
25-Mar-23	8:15	Caribou		~50	Behind WTP/Beside Gazebo	Grazing/Resting	Natalie/Nicola	Stantec
25-Mar-23	8:30	Caribou		~20	Hill Station Hill/WMP Hill	Grazing/Resting	Natalie/Nicola	Stantec
25-Mar-23	15:30	Fox		1	Burn Pit	Feeding	Natalie/Mark/Nicola	Stantec
25-Mar-23	15:30	Wolves		5	Lake Herd Road	Hunting caribou	Radio	Nuna
26-Mar-23	10:00	Caribou or Muskox (tracks)		1	Airstrip	Tracks only B.38	Ed Loveless	Nuna
26-Mar-23	10:00	Wolf (tracks only)		1	Airstrip	Tracks only	Ed Loveless	Nuna
26-Mar-23	9:00	Caribou		15	East of Site	Grazing	Ron Levasseur	Nuna
26-Mar-23	9:30	Caribou		12	East of Site	Grazing	Ron Levasseur	Nuna
26-Mar-23	15:30	Fox		1	Airstrip Dispatch	Unknown	Radio	Nuna
27-Mar-23	6:30	Caribou		20	Behind Comms. Tower	Grazing	Natalie	Stantec
27-Mar-23	11:00	Fox		1	South Ditch	Walking	Ambrose	Nuna

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

27-Mar-23	15:00	Ptarmigan		5	Hill near Pumphouse	Resting/Flying	Natalie/Nicola	Stantec
27-Mar-23	15:30	Caribou		7	Hill near Comms. Tower	Resting/Grazing	Natalie/Nicola	Stantec
27-Mar-23	15:30	Caribou		30	Snap Lake in front of Gazebo	Resting/grazing	Natalie/Nicola	Stantec
27-Mar-23	16:30	Young Caribou		1	North Ditch Road	Walking	Patrick	Nuna
27-Mar-23	17:30	Caribou		20	Near Comms tower	Restng/Grazing	Morin	Nuna
27-Mar-23	17:30	Fox		1	Kitchen	Scavenging	Hazard Card	Nuna
28-Mar-23	6:30	Caribou		10	Field adjacent to Gazebo	Restng/Grazing	Natalie	Stantec
28-Mar-23	6:30	Caribou		20	Around Comms Tower	Restng/Grazing	Natalie	Stantec
28-Mar-23	8:30	Ptarmigan		11	North Ditch Rd, near WISP	Walking	Natalie/Nicola	Stantec
28-Mar-23	11:40	Raven		1	Winter Haven	Flying	Natalie	Stantec
28-Mar-23	15:00	Raven		1	Water Treatment Plant Indust. Waste Pile	Pecking at Insulation	Natalie/Shaw n	Stantec
29-Mar-23	6:30	Caribou		30	Around Comms Tower	Resting/Grazing	Natalie	Stantec
29-Mar-23	6:30	Caribou		10	Hill north of FAR	Resting/Grazing	Natalie	Stantec
29-Mar-23	6:30	Caribou		40	On Snap Lake near Gazebo	Resting	Natalie	Stantec
29-Mar-23	11:30	Ptarmigan		4	Road near FAR	Walking	Natalie	Stantec
30-Mar-23	6:30	Caribou		40	Hill north of FAR	Resting/Grazing	Natalie/Shaw n	Stantec
30-Mar-23	14:00	Ptarmigan		4	Beside PM 2.5 Station	Walking	Natalie/Shaw n	Stantec
30-Mar-23	14:15	Caribou		10	South of Laydown 1	Resting/Grazing	Natalie/Shaw n	Stantec
30-Mar-23	16:30	Young Caribou		1	Between North Ditch Rd and Winter Road	Walking	Natalie	Stantec
30-Mar-23	15:00	Raven		1	Behind Camp	Flying	Natalie	Stantec
31-Mar-23	6:30	Caribou		20	North Ditch Road	Bedded down	Hazard Card	Nuna
31-Mar-23	6:30	Caribou		30	Between North Ditch Rd and Winter Road	Resting/Grazing/Walking	Tyler	Contour
31-Mar-23	6:35	Caribou		10	Hill north of FAR	Resting/Grazing/Walking <sup>B.39</sup>	Natalie/Shaw n	Stantec
31-Mar-23	6:40	Caribou		7	Hill from WMP to Met Station	Walking	Natalie/Shaw n	Stantec
31-Mar-23	14:40	Ptarmigan		2	Near MAG	Walking	Natalie/Shaw n	Stantec
31-Mar-23	14:45	Caribou		20	Between North Ditch Rd and Winter Road	Resting/Grazing/Walking	Natalie/Shaw n	Stantec
31-Mar-23	15:00	Raven		1	Lake Pumphouse	Flying	Natalie/Shaw n	Stantec
31-Mar-23	15:00	Caribou		1	Near PM 2.5 Station	Walking	Natalie/Shaw n	Stantec
31-Mar-23	15:00	Cariou		17	Snap Lake North of FAR	Resting/Grazing/Walking	Natalie/Shaw n	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

31-Mar-23	6:30	Caribou		10	Hill North of FAR	Resting/Grazing	Natalie/Shaw n	Stantec
1-Apr-23	6:30	Caribou		7	Near Comms tower	Resting/Grazing	Natalie/Shaw n	Stantec
1-Apr-23	6:35	Caribou		1	Hill from WMP to Met Station	Walking	Natalie/Shaw n	Stantec
1-Apr-23	9:10	Fox		1	WMP	Walking	Oualid	Stantec
1-Apr-23	12:00	Fox (or Wolf)		1	Behind Camp / Potable Water Plant	Walking	Darren	DeBeers
1-Apr-23	13:00	Caribou		71	Snap Lake South of Camp	Resting/Walking	Natalie/Shaw n	Stantec
1-Apr-23	13:30	Fox		1	South Ditch	Walking	Gary	DeBeers
1-Apr-23	14:00	Caribou		8	Between North Ditch Rd and Winter Road	Resting/Grazing/Walking	Natalie/Shaw n	Stantec
1-Apr-23	14:00	Fox		1	North Ditch near Hoarding	Walking	Peter	DeBeers
2-Apr-23	7:15	Caribou		12	Near Logistics Laydown	Resting	Sheilah	Nuna
2-Apr-23	8:30	Caribou		10	Between North Ditch Rd and Winter Road	Resting	Shawn	Stantec
2-Apr-23	8:20	Caribou		9	Beside Winter Road Between Portage 1 and 2	Walking	Shawn/Natalie	Stantec
2-Apr-23	8:45	Caribou		6	Beside Winter Road Between Portage 2 and 3	Walking	Shawn/Natalie	Stantec
2-Apr-23	13:15	Caribou		30	Near Comms Tower / Gazebo	Resting/Grazing	Shawn/Natalie	Stantec
2-Apr-23	13:30	Caribou		9	Between North Ditch Rd and Winter Road	Resting	Shawn/Natalie	Stantec
2-Apr-23	13:40	Caribou		80	Near Logistics Laydown	Resting/Grazing	Shawn/Natalie	Stantec
2-Apr-23	14:00	Wolverine		1	Winter Road Portage 8	Running	John/Jason	Nuna
3-Apr-23	6:30	Caribou		9	Between North Ditch Rd and Winter Road	Resting	Natalie/Shaw n	Stantec
3-Apr-23	6:30	Caribou		40	Near Comms Tower / Gazebo	Resting/Grazing	Natalie/Shaw n	Stantec
3-Apr-23	9:00	Caribou		1	Main Road	Walking B.40	Radio	Unknown
3-Apr-23	13:00	Red Fox		1	Near Crusher	Walking	Masonwabe	DeBeers
3-Apr-23	13:10	Caribou		9	Between North Ditch Rd and Winter Road	Resting/Grazing	Natalie/Shaw n	Stantec
3-Apr-23	13:20	Caribou		30	Between Comms Tower and FAR	Resting/Grazing	Natalie/Shaw n	Stantec
3-Apr-23	6:30	Ptarmigan		4	Near Comms Tower / Gazebo	Walking	Natalie/Shaw n	Stantec
3-Apr-23	13:20	Ptarmigan		1	Between Comms Tower	Running	Natalie/Shaw n	Stantec



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

					and FAR			
3-Apr-23	14:00	Raven		2	Water Treatment Plant Demolition	Nest Building	Brian	Lakewood
4-Apr-23	8:00	Caribou		100	Snap Lake behind Camp	Resting	Natalie	Stantec
4-Apr-23	14:56	Raven		1	WTP	Flying	Christine/Shawn	Stantec
4-Apr-23	15:10	Caribou		50	North ditch closer to ice road	Standing/Grazing	Christine/Shawn	Stantec
4-Apr-23	15:16	Ptarmigan		10	North ditch closer to ice road	Walking	Christine/Shawn	Stantec
5-Apr-23	NR	Caribou		Unknown	West ISP	Resting	Mike De Haan	Nuna
5-Apr-23	16:22	Caribou		33	FAR	Resting/Eating	Christine/Shawn	Stantec
5-Apr-23	16:35	Caribou		40	North ditch closer to ice road	Resting	Christine/Shawn	Stantec
6-Apr-23	7:09	Raven		1	WTP	Flying	Shawn	Stantec
6-Apr-23	14:12	Caribou		28	RAR	Walking/Grazing	Christine/Shawn	Stantec
7-Apr-23	6:18	Caribou		8	Gate to winter road	Walking/grazing	Christine/Shawn	Stantec
7-Apr-23	9:21	Caribou		14	Laydown 1	Resting	Christine/Shawn	Stantec
7-Apr-23	14:33	Ptarmigan		4	PM 2.5 station	Walking	Christine/Shawn	Stantec
7-Apr-23	14:55	Squirrel		1	Environmental Shop	Wondering/Exploring	Christine/Shawn	Stantec
8-Apr-23	6:18	Red Fox		1	Utilities tank	Walking	Brian	Lakewood
8-Apr-23	7:18	Caribou		Unknown	By the cells on the NorthPile	Walking	Bill	Nuna
8-Apr-23	13:41	Caribou		8	AN Building	Walking/Grazing	Christine/Shawn	Stantec
9-Apr-23	7:53	Caribou		Unknown	North ditch closer to ice road	Resting	J.P	Nuna
9-Apr-23	10:19	Caribou		10	North ditch closer to ice road	Resting	Christine/Shawn	Stantec
9-Apr-23	10:32	Raven		1	Comm Tower	Building nest	Christine/Shawn	Stantec
9-Apr-23	13:50	Ptarmigan		8	Gate to explosives	Flying B.41	Christine/Shawn	Stantec
10-Apr-23	6:23	Caribou		5	Near Gazebo on land	Resting	Christine/Shawn	Stantec
10-Apr-23	6:24	Caribou		17	On Snap Lake near Gazebo	Walking/resting	Christine/Shawn	Stantec
10-Apr-23	6:40	Ptarmigan		10	Explosive Mags	Walking/Flying	Christine/Shawn	Stantec
10-Apr-23	7:11	Caribou		1	Laydown 1	Baby Caribou lost	Ken	Nuna
10-Apr-23	14:22	Caribou		32	PM 2.5 station	Walking/Eating	Christine/Shawn	Stantec
10-Apr-23	14:40	Snow Bunting		3	Explosive Mags	Flying	Christine/Shawn	Stantec
11-Apr-	6:20	Raven		1	Top of LV shop	Resting	Christine/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23							wn	
11-Apr-23	6:47	Caribou		30	Sump 5	Walking/Grazing	Christine/Shawn	Stantec
11-Apr-23	15:12	Caribou		3	PM 2.5 station	Eating	Christine/Shawn	Stantec
11-Apr-23	15:30	Ptarmigan		4	EISP	Flying	Christine/Shawn	Stantec
11-Apr-23	16:06	Raven		1	North Pile	Flying	Christine/Shawn	Stantec
12-Apr-23	6:17	Caribou		3	FAR	Walking/Grazing	Christine/Shawn	Stantec
12-Apr-23	6:18	Caribou		30	PM 2.5 station	Resting	Christine/Shawn	Stantec
12-Apr-23	14:35	Raven		1	North Pile	Flying	Christine/Shawn	Stantec
13-Apr-23	6:17	Caribou		50	WMP	Walking/Grazing	Christine/Shawn	Stantec
13-Apr-23	13:50	Caribou		30	Hill Station	Walking/Grazing	Shawn/Jason	Stantec
14-Apr-23	5:45	Caribou		30	WMP	Eating/Grazing	Christine/Shawn	Stantec
14-Apr-23	6:26	Ptarmigan		8	Explosive Gate	Wondering/Exploring	Christine/Shawn	Stantec
14-Apr-23	6:35	Raven		1	Near the incinerators	Landed	Christine/Shawn	Stantec
14-Apr-23	6:38	Caribou		8	Hill Station	Walking/Grazing	Christine/Shawn	Stantec
14-Apr-23	15:09	Ptarmigan		10	AN Building	Wondering/Exploring	Christine/Shawn	Stantec
14-Apr-23	15:17	Raven		2	WMP	Flying	Christine/Shawn	Stantec
15-Apr-23	5:53	Arctic Hare		1	Core Shack	Wondering/Exploring	Christine/Shawn	Stantec
15-Apr-23	6:23	Raven		1	Core Shack	Flying	Christine/Shawn	Stantec
15-Apr-23	6:24	Caribou		20	WMP	Eating/Grazing	Christine/Shawn	Stantec
15-Apr-23	7:24	Caribou		12	Dam 1	Licking the ice	Guy	Nuna
15-Apr-23	9:25	Coyote		1	Laydown 1	Wondering/Exploring	Sheilah	Nuna
15-Apr-23	9:34	Caribou		14	Hill station	Eating/Grazing	Christine/Shawn	Stantec
15-Apr-23	10:14	Caribou		2	North ditch	Resting	Christine/Shawn	Stantec
15-Apr-23	14:17	Caribou		12	Airstrip	Wondering/Exploring	Julian	Nuna
15-Apr-23	16:08	Caribou		2	North ditch	Walking B.42	Christine/Shawn	Stantec
15-Apr-23	16:08	Caribou		15	Airport Tower	Grazing	Hazard Card	Nuna
16-Apr-23	10:45	Caribou		10	Hill station	Resting	Christine/Shawn	Stantec
16-Apr-23	11:37	Raven		2	North Pile	Flying	Christine/Shawn	Stantec
16-Apr-23	12:18	Ptarmigan		4	Main Road	Flying	Christine/Shawn	Stantec
16-Apr-23	19:55	Ptarmigan		10	Haul Road	Walking	Hazard Card	Nuna
16-Apr-23	19:55	Caribou		herd	WMP	Running	Hazard Card	Nuna
16-Apr-23	19:55	Arctic hare		1	Dispatch Trailer	Walking	Hazard Card	Nuna

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

17-Apr-23	6:16	Raven		1	WTP	Flying	Christine/Shawn	Stantec
17-Apr-23	6:27	Caribou		20	FAR	Eating/Grazing	Christine/Shawn	Stantec
17-Apr-23	6:32	Caribou		12	WMP	Resting	Christine/Shawn	Stantec
17-Apr-23	14:32	Raven		2	North Pile	Flying	Christine/Shawn	Stantec
17-Apr-23	12:40	Ptarmigan		5	Hill Station	Walking	Christine/Shawn	Stantec
17-Apr-23	14:58	Caribou		40	Ice Road	Running	Christine/Shawn	Stantec
17-Apr-23	15:18	Snow Bunting		1	North Pile	Flying	Christine/Shawn	Stantec
17-Apr-23	15:53	Caribou		15	PM 2.5 station	Walking	Christine/Shawn	Stantec
18-Apr-23	6:14	Raven		1	Over Camp	Flying	Christine/Shawn	Stantec
18-Apr-23	11:55	Red Fox		1	Crusher	Wondering/Exploring	Unknown	Nuna
18-Apr-23	15:23	Caribou		8	FAR	Walking/Eating	Christine/Nicola	Stantec
19-Apr-23	6:52	Caribou		20	North Ditch	Laying	Julian	Nuna
19-Apr-23	9:25	Raven		1	FAR	Flying	Christine/Nicola	Stantec
19-Apr-23	9:49	Ptarmigan		1	Mag	Flying	Christine/Nicola	Stantec
19-Apr-23	16:19	Caribou		10	Hill station	Eating/Grazing	Riley	Stantec
20-Apr-23	9:26	Caribou		4	Near AN building	Eating/Grazing	Christine/Nicola	Stantec
20-Apr-23	14:35	Snow Bunting		2	Near AN building	Flying	Christine/Nicola	Stantec
21-Apr-23	NR	Artic Hare		1	Main road	Wondering/Exploring	Laura	Nuna
21-Apr-23	6:26	Caribou		8	Airstrip	Eating/Grazing	JP	Nuna
21-Apr-23	11:11	Caribou		2	Dam 1	Walking/Grazing	Riley Nader	Stantec
21-Apr-23	16:14	Raven		1	North ditch	Flying	Christine/Nicola	Stantec
22-Apr-23	5:46	Caribou		16	WMP	Eating/Grazing	Christine/Nicola	Stantec
22-Apr-23	5:52	Caribou		1	Laydown 1	Wondering/Exploring	Christine/Nicola	Stantec
22-Apr-23	6:34	Caribou		NR	IL 6	Eating/Grazing	Christine/Nicola	Stantec
22-Apr-23	9:20	Raven		2	FAR	Flying B.43	Christine/Nicola	Stantec
22-Apr-23	15:00	Snow Bunting		8	Meg	Emulsion Road	Christine/Nicola	Stantec
22-Apr-23	15:00	Ptarmigan		1	Meg	Meg	Christine/Nicola	Stantec
23-Apr-23	9:20	Artic Hare		1	WMP	Wondering/Exploring	Riler Nader	Stantec
23-Apr-23	9:30	Raven		2	Snap Lake	Flying	Christine/Nicola	Stantec
23-Apr-23	10:09	Caribou		12	Logistics	Eating	JP	Nuna
23-Apr-23	15:10	Baby Caribou		1	Logistics	Walking	Unknown	Nuna
23-Apr-23	15:2	Snow		5	Meg	Flying	Christine/Nicola	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23	8	Bunting					ola	
24-Apr-23	6:32	Caribou		20	WMP	Walking/Eating	Christine	Stantec
25-Apr-23	8:30	Caribou		1	North Pile	Limping along North Pile	Christine/Nicola	Stantec
25-Apr-23	9:45	Artic Hare		1	Main road between logistics and PS2	Running	Christine/Nicola	Stantec
25-Apr-23	14:00	Caribou		20	Snap Lake main	Walking	Erica/Nicola	Stantec
25-Apr-23	14:00	Raven		2	FAR	Flying	Erica/Nicola	Stantec
25-Apr-23	14:10	Snow Bunting		10	East ISP	Flying	Erica/Nicola	Stantec
25-Apr-23	15:00	Snow Bunting		30	AN Road	Flying	Erica/Nicola	Stantec
25-Apr-23	16:45	Ptarmigan		1	Organics Pile	Sitting/Calling	Erica/Nicola	Stantec
25-Apr-23	17:00	Fox		2	Road to Emulsion area	Running	Tristan/Ed	Terra/Nuna
26-Apr-23	5:45	Fox		1	South of winter dispatch office	Running	Tristan/Nicola	Terra/Stantec
26-Apr-23	6:00	Artic Hare		1	Fuel module	Running	Tristan	Terra
26-Apr-23	13:00	Snow Bunting		15	North Pile	Flying	Erica/Nicola	Stantec
26-Apr-23	16:30	Ravens		2	Comm Tower	Nesting	Kejil	QM
27-Apr-23	6:30	Sparrows??		10	North Pile	Flying	Peter	DeBeers
27-Apr-23	6:30	Caribou		1	Near Logistics Laydown	Standing	Erica	Stantec
27-Apr-23	14:00	Caribou		7	South of Laydown 1	Grazing	Erica	Stantec
27-Apr-23	13:30	Birds (unknown)		5	Cell 5	Flying	Erica	Stantec
28-Apr-23	9:15	Fox		1	Sandvik	Running	Pete	Debeers
28-Apr-23	14:00	Snow Bunting		~10	WISP	Flying	Erica/Nicola	Stantec
29-Apr-23	14:30	Artic Hare		1	Tank Farm	Resting	Erica/Nicola	Stantec
29-Apr-23	15:30	Caribou		1	Road behind Quarry	Walking	Erica/Nicola	Stantec
29-Apr-23	16:00	Raven		3	Over Camp	Flying	Erica/Nicola	Stantec
30-Apr-23	14:30	Raven		1	Com tower	Flying in and out of nest	Erica/Nicola	Stantec
1-May-23	14:00	Raven		1	Camp Parking Lot	Flying	Erica/Nicola	Stantec
1-May-23	14:30	Raven		1	Com tower	Flying in and out of nest	Erica/Nicola	Stantec
1-May-23	7:00	Fox		1		Moving around	Hazard Card	Nuna
2-May-23	8:00	Snow Bunting		~20	Freshwater Pumphouse	Flying	Erica/Nicola	Stantec
3-May-23	14:00	Hare		2	Tankfarm	Resting	Mark/Nicola	Stantec
3-May-23	16:00	Hare		1	Waste Management	Resting	Mark/Nicola	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

3-May-23	14:00	Raven		1	Camp Parking Lot	Sitting	Nicola	Stantec
5-May-23	6:20	Fox		1	Road near Winter Road dispatch	Running	Nicola	Stantec
5-May-23	14:00	Raven		1	Comms tower	Flying	Mark/Nicola	Stantec
5-May-23	15:00	Seagull		1	West ISP	Flying	Mark/Nicola	Stantec
5-May-23	All day	Hare		2	Crusher	Resting	Adam	Nuna
6-May-23	7:00	Fox		1	LV shop laydown	Walking	Radio	MNJV
6-May-23	7:25	Fox		1	Outside camp kitchen	Walking	Mike Rissi	MNJV
6-May-23	7:25	Fox		1	West side of camp	Walking	Tristan	Terra
6-May-23	9:15	Fox		1	North Ditch	Walking	Ron Levasseur	Nuna
7-May-23	14:00	Hare		1	Road to Emulsion area	Wondering/Exploring	Mark/Shawn	Stantec
8-May-23	10:55	Ptarmigan		1	Road to Emulsion area	Walking	Mark/Shawn	Stantec
8-May-23	10:58	Birds (unknown)		3	Flying over Tundra near AN building	Flying	Mark/Shawn	Stantec
9-May-23	14:41	Duck		1	Cell 2	Flying	Mark/Shawn	Stantec
9-May-23	14:43	Sparrows		1	WISP	Flying	Mark/Shawn	Stantec
9-May-23	4:47	Arctic Hare		1	by rock	hiding	Hazard Card	Nuna
10-May-23	5:47	Red Fox		1	Road in front of core shack	Wondering/Exploring	Mark/Shawn	Stantec
10-May-23	6:17	Raven		2	Main camp	Flying	Mark/Shawn	Stantec
10-May-23	11:16	Robin		1	WR dispatch	Flying	Mark/Shawn	Stantec
10-May-23	14:06	Raven		2	WISP	Flying	Mark/Shawn	Stantec
11-May-23	6:27	White crowned Sparrow		2	Gazebo	Flying	Mark/Shawn	Stantec
11-May-23	6:28	Raven		2	Gazebo	Sitting	Mark/Shawn	Stantec
11-May-23	14:00	Robin		1	North ditch	Flying	Mark/Shawn	Stantec
11-May-23	14:12	Duck		2	EISP	Swimming	Mark/Shawn	Stantec
11-May-23	14:15	Duck		5	EISP	Flying B.45	Mark/Shawn	Stantec
12-May-23	6:24	Artic Hare		1	Gazebo	Feeding	Mark/Shawn	Stantec
12-May-23	6:37	Geese		-30	AN Road	Flying	Mark/Shawn	Stantec
12-May-23	6:40	Ptarmigan		3	Emulsion Area/AN building	Flying	Mark/Shawn	Stantec
12-May-23	14:25	Squirrel		1	FAR	Running	Mark/Shawn	Stantec
12-May-23	16:45	Birds (unknown)		1	WMP	Flying	Mark/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

13-May-23	5:45	Cliff swallows		3	Parking lot	Flying	Mark/Shawn	Stantec
13-May-23	5:45	Goose		1	Core Shack	Flying	Mark/Shawn	Stantec
13-May-23	9:32	Raven		2	Core sample laydown	Resting	Mark/Shawn	Stantec
13-May-23	9:32	Sparrow		1	FAR	Flying	Mark/Shawn	Stantec
13-May-23	9:35	Artic Hare		1	Communication tower	Resting	Mark/Shawn	Stantec
13-May-23	9:35	Geese		-50	Snap Lake	Flying	Mark/Shawn	Stantec
13-May-23	11:23	Robin		2	WMP	Flying	Mark/Shawn	Stantec
13-May-23	17:02	Gull		2	EISP	Flying	Mark/Shawn	Stantec
14-May-23	10:33	Robin		2	WMP	Flying	Mark/Shawn	Stantec
14-May-23	10:40	Geese		-50	South of camp	Flying	Mark/Shawn	Stantec
14-May-23	10:41	Robin		1	South of airstrip	Flying	Mark/Shawn	Stantec
14-May-23	10:42	Birds (unknown)		3	North pile	Flying	Mark/Shawn	Stantec
14-May-23	14:35	Swallow		2	WISP	Flying	Mark/Shawn	Stantec
15-May-23	14:23	Geese		-40	South of camp	Flying	Mark/Shawn	Stantec
15-May-23	14:23	rabbit		1	Near outhouse at Cell 1	running	Hazard Card	Nuna
16-May-23	6:22	Artic Hare		2	Boat launch	Wondering/Exploring	Mark/Shawn	Stantec
16-May-23	15:23	Geese		4	WMP	Flying	Christine/Shawn	Stantec
17-May-23	6:22	White crowned Sparrow		2	Main road	Flying	Christine/Shawn	Stantec
17-May-23	11:20	Sandhill crane		2	North pile	Flying	Christine/Shawn	Stantec
17-May-23	11:30	Robin		1	Main road	Flying	Christine/Shawn	Stantec
17-May-23	11:32	Cliff swallows		-10	Main camp	Flying	Christine/Shawn	Stantec
18-May-23	11:37	Raven		2	Main camp	Flying	Christine/Shawn	Stantec
18-May-23	14:15	Duck		3	EISP	Fighting/Swimming	Christine/Shawn	Stantec
18-May-23	14:32	Eagle		1	Snap Lake	Flying	Christine/Shawn	Stantec
18-May-23	NR	Ptarmigan		1	Road to AN building	Walking	Kejil	QM
19-May-23	6:25	Sparrow		1	By the mechanic shop	Flying	Christine/Shawn	Stantec
19-May-23	13:37	Raven		1	North pile	Flying	Christine/Shawn	Stantec
19-May-23	14:18	Northern pintail		1	WMP	Flying	Christine/Shawn	Stantec
20-May-23	13:56	Robin		1	FAR	Flying	Christine/Shawn	Stantec
20-May-	14:0	Sparrow		1	Main water	Flying	Christine/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23	1				pump house		wn	
20-May-23	5:27	Muskox		1	Airstrip	Grazing	JP	Nuna
21-May-23	10:01	Cliff swallows		4	Camp Parking Lot	Flying	Christine/Shawn	Stantec
21-May-23	10:05	Raven		1	Generators	Flying	Christine/Shawn	Stantec
21-May-23	10:26	Robin		1	PM 2.5 station	Resting on a rock	Christine/Shawn	Stantec
21-May-23	10:26	Sparrow		1	PM 2.5 station	Flying	Christine/Shawn	Stantec
21-May-23	10:26	Cliff swallows		1	PM 2.5 station	Flying	Christine/Shawn	Stantec
21-May-23	10:56	Fox		2	West Cell divider	Walking	Radio	Nuna
21-May-23	13:54	Northern pintail		1	Runway	Flying	Christine/Shawn	Stantec
21-May-23	13:58	Gull		1	Road to AN building	Flying	Christine/Shawn	Stantec
21-May-23	14:01	Ptarmigan		2	Road to Emulsion area	Flying	Christine/Shawn	Stantec
21-May-23	14:29	Gull		1	Snap Lake	Flying	Christine/Shawn	Stantec
21-May-23	12:34	Fox		2	Hazard control report	digging for birds	Hazard Card	nuna
22-May-23	13:34	Raven		1	Snap Lake	Flying	Christine/Shawn	Stantec
22-May-23	13:34	Sparrow		1	Snap Lake	Flying	Christine/Shawn	Stantec
22-May-23	14:09	Birds (unknown)		1	Sump 1	Flying	Christine/Shawn	Stantec
22-May-23	14:26	Artic Hare		1	Main camp	Resting	Christine/Shawn	Stantec
22-May-23	15:35	Muskox		22	Airstrip	Eating/Grazing	Christine/Shawn	Stantec
23-May-23	6:18	Artic Hare		2	Environmental Shop	Sitting/Resting	Christine/Shawn	Stantec
23-May-23	NR	Artic Hare		1	Logistics	Sitting/Resting	Felix	DeBeers
23-May-23	15:35	Cliff swallows		-10	Logistics Igloo	Flying	Christine/Shawn	Stantec
23-May-23	16:17	Raven		1	Communication tower	Flying	Christine/Shawn	Stantec
24-May-23	10:28	Cliff swallows		2	Carpentry shop	In nest B.47	Christine/Shawn	Stantec
24-May-23	10:38	Northern pintail		1	Snap Lake	Flying	Christine/Shawn	Stantec
24-May-23	10:54	Robin		1	WISP	Flying	Christine/Shawn	Stantec
24-May-23	11:02	Artic Hare		1	AN Building	Resting	Christine/Shawn	Stantec
24-May-23	11:04	Ptarmigan		1	Emulsion Area/AN building	Resting	Christine/Shawn	Stantec
24-May-23	11:04	White crowned Sparrow		1	Emulsion Area/AN building	Flying	Christine/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

24-May-23	11:12	Ptarmigan		1	Emulsion road	Resting	Christine/Shawn	Stantec
24-May-23	15:00	White crowned Sparrow		3	Airport	Flying	Christine/Shawn	Stantec
24-May-23	15:00	Duck		1	Airport	Swimming	Christine/Shawn	Stantec
24-May-23	15:03	Ptarmigan		3	Airstrip	Resting	Christine/Shawn	Stantec
24-May-23	15:09	Cliff swallows		5	Airport	Gathering food	Christine/Shawn	Stantec
24-May-23	15:23	Raven		1	Hill station	Flying	Christine/Shawn	Stantec
25-May-23	6:32	Raven		1	FAR	Flying	Christine/Shawn	Stantec
25-May-23	6:33	Fox		1	FAR	Walking	Christine/Shawn	Stantec
25-May-23	13:40	Raven		2	Snap Lake	Flying	Christine/Shawn	Stantec
25-May-23	13:43	Duck		2	Snap Lake	Swimming	Christine/Shawn	Stantec
25-May-23	14:44	Gull		1	Near Sump 3	Flying	Christine/Shawn	Stantec
26-May-23	6:29	Swan		2	Snap Lake	Flying	Christine/Shawn	Stantec
26-May-23	7:02	Moose		1	By emulsion area NW	Walking	Radio	Nuna
26-May-23	7:23	Muskox		1	By the runway	Wondering/Exploring	Radio	Nuna
26-May-23	9:55	Gull		1	Snap Lake	Flying	Christine/Shawn	Stantec
26-May-23	10:22	Artic Hare		1	LV shop	Resting	Christine/Shawn	Stantec
26-May-23	14:20	Bank swallow		2	North ditch	Flying	Christine/Shawn	Stantec
27-May-23	5:52	Artic Hare		1	Haul road	Resting	Christine/Shawn	Stantec
27-May-23	6:19	Artic Hare		1	By pump house	Resting	Christine/Shawn	Stantec
27-May-23	6:19	Robin		1	By pump house	Flying	Christine/Shawn	Stantec
27-May-23	6:26	Fox		1	Environmental Shop	Walking	Leo	Nuna
27-May-23	13:28	Sparrow		1	North Ditch by WISP	Flying	Christine/Shawn	Stantec
27-May-23	13:51	Raven		1	Main Haul Road	Flying	Christine/Shawn	Stantec
27-May-23	15:10	White crowned Sparrow		1	Road to Emulsion	Flying B.48	Christine/Shawn	Stantec
27-May-23	15:19	Yellow Warbler		1	Road to Emulsion	Flying	Christine/Shawn	Stantec
28-May-23	7:26	Fox		1	Logistics	Eating Chips	Radio	Nuna
28-May-23	9:02	Arctic Hare		1	Core Shack	Wandering	Radio	Nuna
28-May-23	9:13	Cliff Swallow		4	Atco Trailer Camp	Flying	Radio	Nuna
28-May-23	9:25	Yellow Warbler		1	Atco Trailer Camp	Flying	Radio	Nuna
28-May-23	13:03	Wolf		1	Cell 1	Walking	Radio	Nuna



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

28-May-23	14:01	Gull		1	Snap Lake	Flying	Christine/Shawn	Stantec
29-May-23	6:23	Arctic Hare		1	Behind LV Shop	Resting	Christine/Shawn	Stantec
29-May-23	6:41	Fox		1	North Ditch	Running	Radio	Nuna
29-May-23	7:55	Fox		1	Haul Road near Logistics	Running	Radio	Nuna
29-May-23	15:19	Snow Bunting		3	North Ditch	Flying	Radio	Nuna
30-May-23	8:39	Arctic Hare		1	Near Bird Apartment	Wandering	Radio	Nuna
30-May-23	16:06	Brown Bird		1	WISP	Flying	Christine/Shawn	Stantec
31-May-23	8:02	Fox		1	WMP	Walking	Radio	Nuna
31-May-23	8:29	Fox		1	Logistics	Walking	Radio	Nuna
31-May-23	10:21	Raven		1	Over Snap Lake	Flying	Christine/Natalie	Stantec
31-May-23	10:22	Cliff swallows		1	Core Shack	Flying	Christine/Natalie	Stantec
31-May-23	10:23	Ducks		2	Snap Lake	Flying	Christine/Natalie	Stantec
31-May-23	11:05	Arctic Hare		1	Emulsion Pad	Running	Christine/Natalie	Stantec
31-May-23	11:16	Bank Swallow		2	Landfill	Flying	Christine/Natalie	Stantec
31-May-23	14:29	Raven		1	North Ditch	Flying	Christine/Natalie	Stantec
1-Jun-23	14:00	Arctic Hare		1	FAR	Sitting	Christine/Natalie	Stantec
1-Jun-23	16:45	Yellow Warbler		1	North Ditch	Flying	Christine/Natalie	Stantec
2-Jun-23	5:26	Bald Eagle		1	Between North Ditch and Sanp Lake	Sitting in Tree	Jim	Nuna
2-Jun-23	7:38	Fox		1	Cell 5	Wandering	Radio	Nuna
2-Jun-23	14:00	Cliff Swallow		1	Tool Crib	Resting	Christine/Natalie	Stantec
2-Jun-23	16:01	Brown Bird		1	Pump Station near Snap Lake	Resting	Christine/Natalie	Stantec
2-Jun-23	16:24	Gull		1	Snap Lake	Flying	Christine/Natalie	Stantec
2-Jun-23	16:28	Brown Bird		1	PS2	Flying	Christine/Natalie	Stantec
3-Jun-23	8:30	Fox		1	Sandvik	Walking B.49	Radio	Nuna
3-Jun-23	5:26	Bald Eagle		1	Between North Ditch and Sanp Lake	Sitting in Tree	Jim	Nuna
3-Jun-23	8:42	Swallow		1	Tool Crib	Flyng	Natalie/Magda	Stantec
3-Jun-23	9:07	Arctic Hare		1	Between FAR and Comms Tower	Eating	Natalie/Magda	Stantec
3-Jun-23	9:07	Geese?		5	Flying toward Snap Lake, North	Flying	Natalie/Magda	Stantec
3-Jun-23	9:13	Robin		1	Near Comms Tower	Sitting on Rock	Natalie/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

3-Jun-23	9:18	Swallows		5	Over Camp	Flying	Natalie/Magda	Stantec
3-Jun-23	9:23	Non-Geese Waterfowl		3	Flying toward Snap Lake, North	Flying	Natalie/Magda	Stantec
3-Jun-23	9:38	Arctic Hare		1	End of North Ditch Road	Walking	Natalie/Magda	Stantec
3-Jun-23	9:50	Arctic Hare		1	Winder Road Access	Resting	Natalie/Magda	Stantec
3-Jun-23	9:54	Gull		1	East of North Pile	Flying	Natalie/Magda	Stantec
3-Jun-23	10:05	White Crowned Sparrow		1	Near IL6	Foraging	Natalie/Magda	Stantec
3-Jun-23	10:10	Muskox		1	Between AN Storage and Quarry	Foraging	Natalie/Magda	Stantec
3-Jun-23	10:47	Muskox		1	Bulk Emulsion Pad	Resting	Natalie/Magda	Stantec
3-Jun-23	11:50	BIRDS		5	Red Shack Near Camp	Nesting	Brian	Nuna
4-Jun-23	8:08	Muskox		2	North side of West Divider	Grazing/resting	Jim Adams	Nuna
4-Jun-23	8:55	Arctic Hare		1	Near FAR	Hopping	Natalie/Magda	Stantec
4-Jun-23	8:56	Raven		1	Flying toward Comm. Tower	Flying	Natalie/Magda	Stantec
4-Jun-23	9:04	Swallows		2	Flying into Main Camp roof	Fly	Natalie/Magda	Stantec
4-Jun-23	9:08	Fox		1	Igloo at Logistics	Walking	Radio	Nuna
4-Jun-23	9:08	Raven		1	Flying over Tank Farm	Flying	Natalie/Magda	Stantec
4-Jun-23	9:10	Swallows		2	Flying east over WMP	Flying	Natalie/Magda	Stantec
4-Jun-23	9:12	Fox		1	Crossing across Haul Road to Incinerator	Running	Natalie/Magda	Stantec
4-Jun-23	9:13	Cliff Swallows		40	Igloo at Logistics	Flying	Natalie/Magda	Stantec
4-Jun-23	9:23	Fox		1	Near Crusher	Scampering	Radio	Nuna
4-Jun-23	13:25	Trout		2	Near Dock	Swimming	JP	Nuna
4-Jun-23	12:45	Gull		1	Over Snap Lake	Flying B.50	Christine/Magda	Stantec
4-Jun-23	12:55	Raven		1	Near Nest	Flying	Christine/Magda	Stantec
5-Jun-23	10:33	Gull		1	Near FAR	Flying	Christine/Magda/Natalie	Stantec
5-Jun-23	10:35	Geese		4	Over Snap Lake	Flying	Christine/Magda/Natalie	Stantec
5-Jun-23	10:55	White Crested Sparrow		1	Near North Ditch	Flying	Christine/Magda/Natalie	Stantec
5-Jun-23	14:50	Loon		1	On Snap Lake	Swimming	Natalie/Magda	Stantec
5-Jun-23	14:5	Gull		1	On Snap Lake	Swimming	Natalie/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

	1						a	
5-Jun-23	14:55	Muskox		2	Near North Ditch Road by WISP	Resting/Grazing	Natalie/Magda	Stantec
5-Jun-23	13:01	Swallows		1	Over WISP	Flying	Natalie/Magda	Stantec
5-Jun-23	13:12	Gull		1	Over Snap Lake	Flying	Natalie/Magda	Stantec
5-Jun-23	13:30	Sparrow		2	By Dock	Flying	Natalie/Magda	Stantec
5-Jun-23	16:30	Bald Eagle		1	Over Comm. Tower	Soaring	Natalie/Magda	Stantec
5-Jun-23	16:41	Warblers		2	Near Gazebo	Flying	Natalie/Magda	Stantec
5-Jun-23	16:49	Muskox (young and adult)		12	Across Snap Lake from Camp (South)	Roaming	Natalie/Magda	Stantec
6-Jun-23	8:43	Swallow		1	By Red Shack	Flying	Natalie/Magda	Stantec
6-Jun-23	8:50	Ducks		4	Over Snap Lake	Flying	Natalie/Magda	Stantec
6-Jun-23	8:56	Bank Swallows		4	By Habitat	Flying	Natalie/Magda	Stantec
6-Jun-23	8:56	Gull		1	On Snap Lake near	Swimming	Natalie/Magda	Stantec
6-Jun-23	8:56	Sparrow		1	Near WISP	Flying	Natalie/Magda	Stantec
6-Jun-23	9:19	Muskox		2	Between WISP and IL6	Grazing/resting	Natalie/Magda	Stantec
6-Jun-23	9:19	Swallows		2	Between WISP and IL6	Flying	Natalie/Magda	Stantec
6-Jun-23	14:00	Geese		20	Airport	Flying	Christine/Magda/Natalie	Stantec
6-Jun-23	15:30	Barn Swallows		2	EISP	Flying	Erica	Stantec
6-Jun-23	14:20	Muskox		20	Emulsion Plant	Grazing	Natalie	Stantec
6-Jun-23	15:40	Raven		1	WMP	Searching	Erica/Magda	Stantec
6-Jun-23	15:45	Raven		1	Comm. Tower	Flying	Erica/Magda	Stantec
6-Jun-23	15:50	Geese		15	Airport	Flying	Erica/Magda	Stantec
6-Jun-23	16:00	Cliff Swallows		50	Logistics Igloo	Flying/Nesting	Erica/Magda	Stantec
6-Jun-23	16:20	White Crowned Sparrow		1	Barn Swallow Habitat	Singing	Erica/Magda	Stantec
7-Jun-23	5:55	Robin		1	WMP	Flying	Erica/Magda	Stantec
7-Jun-23	6:20	Gull		1	Snap Lake	Flying	Erica/Magda	Stantec
7-Jun-23	6:30	Northern Water Thrush		1	by WSIP	Singing	Erica/Magda	Stantec
7-Jun-23	6:30	White Crowned Sparrow		1	by WSIP	Singing	Erica/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

7-Jun-23	6:30	Yellow Warbler		1	by WSIP	Singing	Erica/Magda	Stantec
7-Jun-23	6:30	Robin		1	by WSIP	Singing	Erica/Magda	Stantec
7-Jun-23	6:30	American Pipit		1	by WSIP	Singing	Erica/Magda	Stantec
7-Jun-23	6:30	Redpoll		1	by WSIP	Singing	Erica/Magda	Stantec
7-Jun-23	6:30	Bank Swallows		5	by WSIP	Singing	Erica/Magda	Stantec
7-Jun-23	6:39	Muskox (young and adult)		10	Emulsion Plant	Grazing/resting	Radio	Nuna
7-Jun-23	6:45	Geese		4	WISP	Flying	Erica/Magda	Stantec
7-Jun-23	7:00	Bank Swallows		10	West end of WISP	Hunting/nesting	Erica/Magda	Stantec
7-Jun-23	7:10	Muskox		1	West end of WISP	Grazing	Erica/Magda	Stantec
7-Jun-23	11:07	Muskox (young and adult)		10	South of camp	Grazing	Ed Loveless	Nuna
7-Jun-23	14:45	Geese		20	Snap Lake	Flying	Erica/Magda	Stantec
8-Jun-23	6:45	Muskox		2	WISP	Grazing	Erica/Magda	Stantec
8-Jun-23	6:45	Robin		1	WISP	Flying	Erica/Magda	Stantec
8-Jun-23	12:00	Fox		1	EISP	Eating	Radio	Nuna
8-Jun-23	14:00	Muskox		2	WISP	Grazing	Erica/Magda	Stantec
8-Jun-23	9:00	Cliff swallow	Adult	50	Igloo at Logistics	Flying / nesting	Erica / Magda	Stantec
8-Jun-23	15:00	Bank swallow	Adult	2	North Pile - rib berm	Nesting	Erica/Magda	Stantec
9-Jun-23	6:30	White Crowned Sparrow	Adult	2	North Ditch Road bushes	Singing	Erica/Magda	Stantec
9-Jun-23	6:30	American tree sparrow	Adult	1	North Ditch Road bushes	Singing	Erica/Magda	Stantec
9-Jun-23	6:45	American Pipit	Adult	1	North Ditch Road	Sitting on Rock	Erica/Magda	Stantec
9-Jun-23	6:45	Yellow Warbler	Adult	2	FAR bushes	Singing	Erica/Magda	Stantec
9-Jun-23	10:30	Barn Swallow	Adult	2	Red Shack Near Camp	Flying / nesting	Erica/Magda	Stantec
10-Jun-23	13:30	Muskox	Adult Male	1	West Cell divider bushes	Grazing	Erica/Magda	Stantec
10-Jun-23	10:30	Muskox	Adults and 3 young	15	West of AN Pad	Grazing	Verbal Comms	Nuna
10-Jun-23	14:30	Greater White Fronted Goose	Adult	1	Water Management Pond shoreline	Grazing on new grass	Erica/Magda	Stantec
10-Jun-23	12:30	Cliff swallow	Adults	2	North Pile - Cell 1	flying / feeding	Erica/Magda	Stantec
10-Jun-23	6:30	White Crowned	Adult	1	North Ditch Road bushes	singing	Erica / Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

		d Sparrow						
10-Jun-23	7:00	Raven	Adult	1	Communication tower	Flying	Erica/Magda	Stantec
10-Jun-23	14:04	Gray-cheeked thrush	Adult	1	East of Dam 1 - Tree grove	Singing	Erica/Magda	Stantec
11-Jun-23	10:30	Raven	Adult	1	Over the LV shop	Flying	Erica/Magda	Stantec
11-Jun-23	11:00	White throated sparrow	Adult	1	Near EISP	Singing	Erica/Magda	Stantec
11-Jun-23	14:15	Muskox (young and adult)	Adult	5	Near West Divider	Sheltering	Erica/Magda	Stantec
12-Jun-23	6:40	Yellow Warbler	Adult	1	Near EISP	Singing	Erica/Magda	Stantec
12-Jun-23	6:50	Raven	Adult	1	Over the LV shop	Flying	Erica/Magda	Stantec
12-Jun-23	all day	Muskox	Adults and 3 young	20	Near West Divider	Grazing	Erica/Magda	Stantec
12-Jun-23	7:00	Brown Bird	Adult	2	Near FAR	Singing	Erica/Magda	Stantec
12-Jun-23	7:00	Yellow Warbler	Adult	1	Near FAR	Singing	Erica/Magda	Stantec
12-Jun-23	7:05	Brown Bird with white belly	Adult	2	Near FAR	Flying	Erica/Magda	Stantec
12-Jun-23	14:20	Arctic Hare	Adult	1	WISP	Resting	Erica/Magda	Stantec
13-Jun-23	6:20	Arctic Hare	Adult	1	WISP	Resting	Erica / Magda	Stantec
13-Jun-23	6:30	White Crowned Sparrow	Adult	2	WISP	Singing	Erica / Magda	Stantec
13-Jun-23	6:30	Robin	Adult	1	WISP	Singing	Erica / Magda	Stantec
13-Jun-23	6:30	White throated sparrow	Adult	1	WISP	Singing	Erica / Magda	Stantec
13-Jun-23	6:40	Yellow Warbler	Adult	1	EISP	Singing	Erica / Magda	Stantec
13-Jun-23	6:40	White throated sparrow	Adult	1	EISP	Singing	Erica / Magda	Stantec
13-Jun-23	6:45	Muskox	Adults and young s	1	West of airport	Grazing B.53	Radio	Nuna
13-Jun-23	9:26	Muskox	Adults and young s		Control Tower	Grazing	Radio	Nuna
13-Jun-23	11:20	Muskox	Adult	3	Airport	Grazing	Ed Loveless	Nuna
13-Jun-23	17:10	Arctic Hare		1	Near FAR	Hopping	Kia/Magda	Stantec
13-Jun-23	17:20	Common Mergan		2	On Snap Lake	Fishing	Kia/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

		ser						
14-Jun-23	6:20	Northern Water Thrush			Near FAR	Singing	Kia/Magda	Stantec
14-Jun-23	6:20	White Crowned Sparrow			Near FAR	Singing	Kia/Magda	Stantec
14-Jun-23	6:30	Muskox			Near WMP Hill	Grazing	Ed Loveless	Nuna
14-Jun-23	6:52	Raven			Over North Pile	Flying	Kia/Magda	Stantec
14-Jun-23	12:45	Ravens			Communication tower	Flying	Kia/Magda	Stantec
14-Jun-23	13:00	Muskox	Adults and youngs		Down the hill from Logistics	Grazing	Kia/Magda	Stantec
14-Jun-23	13:00	Swallows			Igloo at Logistics	Flying	Kia/Magda	Stantec
14-Jun-23	13:40	Robin			Near Emulsion Pad	Flying	Kia/Magda	Stantec
14-Jun-23	13:40	Arctic Hare	Adult	1	Emulsion Pad	Hopping	Kia/Magda	Stantec
14-Jun-23	14:10	Swallows		2	Cell 2	Flying	Kia/Magda	Stantec
15-Jun-23	7:41	Muskox	Adults and youngs		On hill south of Organics pile	Grazing	Kia/Magda	Stantec
15-Jun-23	7:41	Arctic Hare	Adult	1	On hill south of Organics pile	Hopping	Kia/Magda	Stantec
15-Jun-23	7:41	Fox	Adult	1	On hill south of Organics pile		Kia/Magda	Stantec
15-Jun-23	10:30	Fox	adult	1	NW end of runway	Drinking	Kia/Magda/Mark	Stantec
15-Jun-23	10:30	Yellow Warbler		1	Over airstrip	Flying	Kia/Magda/Mark	Stantec
15-Jun-23	10:35	Muskox	Adults and youngs	10	Between organics pile and haul road	Grazing	Kia/Magda/Mark	Stantec
15-Jun-23	10:40	Muskox	Adult male	1	Dam 1	Grazing	Kia/Magda/Mark	Stantec
15-Jun-23	11:50	Common Loons		2	Snap Lake	Fishing	Kia/Magda	Stantec
15-Jun-23	11:50	Ravens		1	East end of North ditch	Flying	Kia/Magda	Stantec
15-Jun-23	11:55	Swallows		2	Near FAR	Flying B.54	Kia/Magda	Stantec
15-Jun-23	14:07	Bank swallows		12	East side of EISP, south of dam 2	Flying	Kia/Magda	Stantec
15-Jun-23	14:50	Muskox	Adult	1	Dam 1	Grazing	Kia/Magda	Stantec
15-Jun-23	15:00	Muskox			In road at South Ditch, near Organics Pile		Dave	Nuna
16-Jun-23	6:30	Green wing teal ducks		2	In pond next to WISP		Kia/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

16-Jun-23	6:35	Raven		1	Over North Pile	Flying	Kia/Magda	Stantec
16-Jun-23	6:55	Arctic Hare	Adult	1	Near camp	Hopping	Kia/Magda	Stantec
16-Jun-23	6:55	Muskox			In road by WISP		Radio	Nuna
16-Jun-23	9:45	Muskox	Adult	1	WISP landing	Grazing	Kia/Magda	Stantec
16-Jun-23	10:30	Robin		1	Snap Lake	Flying	Kia/Magda	Stantec
16-Jun-23	10:30	Savannah Sparrow			Snap Lake	Flying	Kia/Magda	Stantec
16-Jun-23	10:30	Northern Water Thrush			Snap Lake	Flying	Kia/Magda	Stantec
16-Jun-23	10:30	White Crowned Sparrow			Snap Lake	Flying	Kia/Magda	Stantec
16-Jun-23	10:30	Swan		1	Snap Lake	Swimming	Kia/Magda	Stantec
16-Jun-23	17:00	Muskox			Near North ditch			Stantec
17-Jun-23	6:30	Arctic Hare	adult	1	Laydown	Hopping	Kia/Magda	Stantec
17-Jun-23	7:45	Muskox			North ditch		Radio	Nuna
17-Jun-23	8:45	Muskox	adult	3	WISP	Grazing	Kia/Magda	Stantec
17-Jun-23	8:45	White Crowned Sparrow			WISP	Flying	Kia/Magda	Stantec
17-Jun-23	8:54	Bank swallows		12	Active nest at north end of EISP	Flying	Kia/Magda	Stantec
17-Jun-23	9:20	Arctic Hare	adult	1	Logistics Laydown		Kia/Magda	Stantec
17-Jun-23	9:10	White Crowned Sparrow			Over Snap Lake	Flying	Kia/Magda	Stantec
17-Jun-23	9:10	American pipit			Over Snap Lake	Flying	Kia/Magda	Stantec
17-Jun-23	9:40	Muskox			Near Haul road		Radio	Nuna
17-Jun-23	10:45	Great white fronted goose			WMP	B.55	Ron	Nuna
17-Jun-23	11:25	Arctic Hare	Adult	1	Old Camp	Hopping	Kia/Magda	Stantec
17-Jun-23	11:45	Yellow Warbler		1	East constructed habitat	Flying	Kia/Magda	Stantec
17-Jun-23	12:10	Muskox	Young and Adults		On hill of North Pile	Grazing	Kia/Magda	Stantec
17-Jun-23	16:45	Muskox	Adult	1	Logistics		Kia/Mark	Stantec
18-Jun-23	9:00	Ducks		12	Over FAR	Flying	Kia/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

18-Jun-23	9:00	White Crowned Sparrow			Over FAR	Flying	Kia/Magda	Stantec
18-Jun-23	9:00	American robin			Over FAR	Flying	Kia/Magda	Stantec
18-Jun-23	9:10	Loons		2	On Snap Lake		Kia/Magda	Stantec
18-Jun-23	10:40	Arctic Hare		1	Dispatch Office	Hopping	Kia/Magda	Stantec
18-Jun-23	10:45	Muskox	Adult	1	Near Dam 1	Grazing	Kia/Magda	Stantec
18-Jun-23	10:51	Muskox	Young and Adults		On hill facing Dam 2	Grazing	Kia/Magda	Stantec
18-Jun-23	11:40	Muskox			In pond next to WMP		Radio	Nuna
18-Jun-23	12:25	Fox		1	FAR		Christian	Stantec
18-Jun-23	12:30	Muskox	Young and Adults	18	Opposite WMP	Grazing	Kia/Mark	Stantec
18-Jun-23	13:00	Piper		1	Over WMP	Flying	Kia/Mark	Stantec
19-Jun-23	6:30	Arctic Hare	Adult	1	Dam 1		Magda	Stantec
19-Jun-23	6:30	Ravens		1	Over camp	FLying	Magda	Stantec
19-Jun-23		Muskox	Young and Adults	8	The ice road near EISP	Grazing	Radio	Nuna
19-Jun-23	9:00	Arctic Hare	Adult	1	Dam 1	Hopping	Kia/Magda	Stantec
19-Jun-23	9:00	Plovers		2	Dam 1	Flying	Kia/Magda	Stantec
19-Jun-23	9:45	Muskox	Young and Adults		Next to East constructed habitat	Grazing	Kia/Magda	Stantec
19-Jun-23	15:00	Bank swallows		6	Nests at Northwest end of EISP	FLying	Magda	Stantec
20-Jun-23	13:00	Muskox			On airstrip runway		Radio	Nuna
20-Jun-23	14:10	Muskox			Dam 2	Grazing	Kia/Magda/Mark	Stantec
20-Jun-23	14:30	Muskox			Tank farm		Radio	Nuna
20-Jun-23	15:05	Muskox	Adult	1	On hill opposite FAR	Grazing	Kia/Shawn	Stantec
20-Jun-23	15:15	Muskox	Young and Adults	14	On hill of North Pile	Grazing B.56	Kia/Shawn	Stantec
20-Jun-23	15:20	Bank swallows			Igloo at Logistics	Flying	Kia/Shawn	Stantec
20-Jun-23	15:30	Bank swallows			Northwest end of EISP	Flying	Kia/Shawn	Stantec
21-Jun-23	5:50	Muskox			Opposite Dispatch office	Grazing	Radio	Nuna
21-Jun-23	6:40	Muskox			Old camp		Tristan	Terrawater
21-Jun-23	6:55	Muskox	Young and	10	Opposite Dispatch office	Grazing	Kia/Shawn	Stantec



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

			Adults					
21-Jun-23	11:10	Dead tree swallow	Adult	1	Dock		Kia/Shawn	Stantec
21-Jun-23	14:15	Muskox	Adult	1	Emulsion plant		Kia/Shawn	Stantec
21-Jun-23	14:10	Muskox	Young and Adults	10	In pond next to airstrip & on hill at North pile	Grazing, Drinking water	Kia/Shawn	Stantec
21-Jun-23	16:20	Bank swallows		3	Logistics	Flying	Kia/Shawn	Stantec
22-Jun-23	6:56	Grizzly Bear		1	Between AN-Emulsion		Radio	Nuna
22-Jun-23	10:00	Muskox	Young and Adults	16	West dyke perimeter road	Grazing	Kia/Shawn	Stantec
22-Jun-23	10:35	White Crowned Sparrow		1	Over North ditch	Flying	Kia/Shawn	Stantec
22-Jun-23	10:35	Common Redpoll		1	Over North ditch	Flying	Kia/Shawn	Stantec
22-Jun-23	11:20	Muskox	Adult	1	WISP	Grazing	Kia/Shawn	Stantec
22-Jun-23	11:26	White Crowned Sparrow		1	WISP	Flying	Kia/Shawn	Stantec
22-Jun-23	16:04	Arctic Hare	Adult	1	Organics pile	Eating	Kia/Shawn	Stantec
23-Jun-23	6:20	arctic Hare	Adult	1	EISP	Hopping	Kia/Shawn	Stantec
23-Jun-23	6:25	Bank swallows		5	Northwest end of EISP	Flying	Kia/Shawn	Stantec
23-Jun-23	6:30	White Crowned Sparrow			WISP	Flying	Kia/Shawn	Stantec
23-Jun-23	11:15	Muskox	Young and Adults		North pile	Grazing	Kia/Shawn	Stantec
23-Jun-23	13:30	Raven	Young	1	Communications Tower	Sitting	Kia/Shawn	Stantec
23-Jun-23	14:28	Raptor		1	AN building	Sitting	Kia/Shawn	Stantec
24-Jun-23	6:20	Bank swallows		3	Northwest end of EISP	Flying, visiting nests	Kia/shawn	Stantec
24-Jun-23	7:15	Muskox			Between crusher & airstrip		Ed	Nuna
24-Jun-23	11:05	Herd of muskox			West cell dyke	Grazing	Kia/Shawn	Stantec
24-Jun-23	11:10	Ravens		1	Organics pile	Flying	Kia/Shawn	Stantec
24-Jun-23	16:30	Ravens		1	North pile	Flying	Kia/Shawn	Stantec
24-Jun-23		Moose		1	Near Cell LF		Tristan	Terrawater
25-Jun-	10:0	Arctic		1	Tank farm	Eating	Kia/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23	4	Hare						
25-Jun-23	10:45	Bank swallows			Carpenter shop	Flying, visiting nests	Kia/Shawn	Stantec
25-Jun-23	14:39	Muskox	Young and Adults	17	West cell dyke	Grazing	Kia/Shawn	Stantec
25-Jun-23	14:16	Loon		1	Snap Lake	Swimming	Kia/Shawn	Stantec
25-Jun-23	14:20	Raven		1	Over North pile	Flying	Kia/Shawn	Stantec
26-Jun-23	6:42	Bank swallows		9	Northwest end of EISP	Flying, visiting nests	Kia/Shawn	Stantec
26-Jun-23	6:42	Arctic Hare		1	EISP	Hopping	Kia/Shawn	Stantec
26-Jun-23	8:55	Fox		1	Dam 1	Running	Kia/Shawn	Stantec
26-Jun-23	8:55	Muskox	Adult	5	Dam 1	Running	Kia/Shawn	Stantec
26-Jun-23	9:37	Muskox	Adult	1	Radio tower	Grazing	Radio	Nuna
26-Jun-23	11:05	Muskox	Adult	1	FAR	Grazing	Kia/Shawn	Stantec
27-Jun-23	5:45	Raven		1	Outside camp	Sitting	Kia/Shawn	Stantec
27-Jun-23	6:27	Ravens		3	Over North ditch	Flying, visiting nests	Kia/Shawn	Stantec
27-Jun-23	6:40	Bank swallows			Northwest end of EISP	Flying, visiting nests	Kia/Shawn	Stantec
27-Jun-23	6:50	Ravens	Adult	1	On back of truck picking up garbage	Stealing scraps	Kia/Shawn	Stantec
27-Jun-23	7:03	Arctic Hare	Adult	1	Outside camp	hopping	Kia/Shawn	Stantec
27-Jun-23	8:17	Muskox	Adult	1	Communication s Tower	Sitting	Tristan	Terraw ater
27-Jun-23	13:52	Sandpiper		1	EISP	Hopping	Kia/Shawn	Stantec
27-Jun-23	14:00	Herd of muskox	Young and Adults		EISP	Grazing	Kia/Shawn	Stantec
27-Jun-23	15:25	Sandpiper		1	Dam 1	Hopping	Kia/Shawn	Stantec
27-Jun-23	15:30	Muskox			In road at sump 2	Walking	Radio	Nuna
28-Jun-23	6:25	Loons		3	Snap Lake	Swimming B.58	Kia/Shawn	Stantec
28-Jun-23	6:40	California gull		1	Snap Lake	Swimming	Kia/Shawn	Stantec
28-Jun-23	6:45	Arctic Hare	Adult	2	Near FAR	Hopping	Kia/Shawn	Stantec
28-Jun-23	10:05	White Crowned Sparrow			Sandvik	Chirping	Kia/Shawn	Stantec
28-Jun-23	13:53	Arctic Hare	Adult	1	Tank farm	Sitting	Kia/Shawn	Stantec
28-Jun-23	13:53	Plover		1	Tank farm	Sitting	Kia/Shawn	Stantec
28-Jun-23	14:28	Muskox	Adult	1	North ditch road W of	Walking	Kia/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

					WISP			
28-Jun-23	14:30	Herd of muskox	Young and Adults		Near West constructed habitat	Grazing	Kia/Shawn	Stantec
29-Jun-23	6:27	Loons		2	Snap Lake	Swimming	Kia/Shawn	Stantec
30-Jun-23	6:24	Yellow warbler		1	Snap Lake	Flying	Kia/Shawn	Stantec
30-Jun-23	6:24	California gull		1	Snap Lake	Flying	Kia/Shawn	Stantec
30-Jun-23	6:31	Herd of muskox	Young and Adults	14	Near FAR	Grazing	Kia/Shawn	Stantec
30-Jun-23	15:20	Raven		1	Communications Tower	Flying	Kia/Shawn	Stantec
30-Jun-23	15:45	Herd of muskox	Young and Adults		AN pad	Walking	Kia/Shawn	Stantec
30-Jun-23	14:10	Raven		1	North pile	Flying	Kia/Shawn	Stantec
1-Jul-23	7:45	Herd of muskox	Young and Adults		Logistics	Walking	Bill	Nuna
1-Jul-23	14:48	Rock ptarmigan		1	SE Airstrip	Grazing	Kia/Shawn	Stantec
1-Jul-23	14:30	Harris's Sparrow			SE Airstrip	Chirping	Kia/Shawn	Stantec
1-Jul-23	15:30	Muskox	Young and Adults	7	Dam 1	Grazing	Kia/Shawn	Stantec
1-Jul-23	15:10	Arctic Hare		1	Logistics	Drinking water	Jonathan	Stantec QC
1-Jul-23	13:30	Herd of muskox	Young and Adults		Hill facing Dam 1	Grazing	Kia/Shawn	Stantec
2-Jul-23	7:08	Herd of muskox	Young and Adults	11	Communications Tower	Grazing	Kia/Shawn	Stantec
2-Jul-23	7:05	California gull		1	Snap Lake	Flying	Kia/Shawn	Stantec
2-Jul-23	10:15	Raven		1	EISP	Flying	Kia/Shawn	Stantec
2-Jul-23	7:01	Bank swallows			NW end of EISP	Flying, visiting nests	Kia/Shawn	Stantec
2-Jul-23	14:00	Muskox			Lake Station		Radio	Nuna
2-Jul-23	14:00	Raven		1	Communications Tower	Flying, visiting nests	Kia/Shawn	Stantec
2-Jul-23	8:00	Foxes		2	Back of camp	Running	Jonathan	Stantec QC
2-Jul-23	16:00	Herd of muskox	Young and Adults		North ditch road	Walking	Radio	Nuna
3-Jul-23	6:30	Fox		1	North side of EISP	Chasing birds	Kia/Shawn	Stantec
3-Jul-23	6:35	Arctic Hare		2	FAR	Hopping	Kia/Shawn	Stantec
3-Jul-23	6:45	Robin		1	FAR	Flying, visiting nests	Kia/Shawn	Stantec
4-Jul-23	6:30	Gull		1	over SL	Flying	Kia/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

4-Jul-23	6:46	Muskox	herd	herd	Airstrip	Grazing	Kia/Shawn	Stantec
4-Jul-23	6:28	Yellow warbler		1	EISP		Kia/Shawn	Stantec
4-Jul-23	15:38	Vole		1	Incinerator	Running fast	Kia/Shawn	Stantec
5-Jul-23	6:40	Herd of muskox		18	near WISP	Grazing, resting	Shawn/Magda	Stantec
5-Jul-23	10:30	Yellow warbler		1	near WISP	Flying	Shawn/Magda	Stantec
5-Jul-23	10:15	Raven		1	North ditch road	Flying	Shawn/Magda	Stantec
5-Jul-23	11:30	Fox		1	North ditch road	Scavenging	Shawn/Magda	Stantec
5-Jul-23	15:30	Plover		2	Dam 1	Scurrying	Shawn/Magda	Stantec
6-Jul-23	6:30	Swallows		few	over WISP/North Ditch Road	Flying	Shawn/Magda	Stantec
6-Jul-23	9:15	Ravens		5	Near FAR	Congregating	Shawn/Magda	Stantec
6-Jul-23	11:37	Muskox		18	Haul Road	Grazing	Radio	Nuna
6-Jul-23	15:09	Ring-necked Duck		1	Pond near Airoprt	Diving/Swimming	Shawn/Magda	Stantec
7-Jul-23	6:20	Ravens		2	on Sandvic	Scheming	Shawn/Magda	Stantec
7-Jul-23	6:20	Brown Birds		many	North ditch road	Flying about	Shawn/Magda	Stantec
7-Jul-23	6:34	Bank swallows		many	EISP	Hunting	Shawn/Magda	Stantec
7-Jul-23	6:34	Arctic Hare		1	EISP	Hopping	Shawn/Magda	Stantec
7-Jul-23	11:10	Ravens		4	Comms Tower area	Congregating	Shawn/Magda	Stantec
7-Jul-23	13:20	Muskox		herd	near Ice Road	Grazing	Radio	Nuna
8-Jul-23	5:50	Muskox		herd	behind Camp	Grazing	Shawn	Stantec
8-Jul-23	6:25	Swallows		many	over EISP	Flying	Shawn/Magda	Stantec
8-Jul-23	6:33	Swallows		many	over WISP	Flying	Shawn/Magda	Stantec
8-Jul-23	6:40	Brown Birds		many	over Lake Road	Flying	Shawn/Magda	Stantec
8-Jul-23	6:41	Swallows		many	over WMP	Flying	Shawn/Magda	Stantec
9-Jul-23	9:25	California Gulls		3	over North Pile	Soaring B.60	Shawn/Magda	Stantec
9-Jul-23	9:30	Muskox		herd	near Old Landfarm	Grazing	Shawn/Magda	Stantec
9-Jul-23	4:13	Arctic Hare		1	near EISP	Hopping	Shawn/Magda	Stantec
10-Jul-23	6:15	Loons		3	on Snap Lake	Swimming	Shawn/Magda	Stantec
10-Jul-23	6:15	Northern Pintails		2	on EISP water	Swimming	Shawn/Magda	Stantec
10-Jul-23	6:15	Bank swallows		many	over EISP	Flying	Shawn/Magda	Stantec
10-Jul-	6:20	Bank		man	over WISP	Flying	Shawn/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23		swallows		y			a	
10-Jul-23	6:30	Raven		1	on Lamp post near Old Camp	Perching	Shawn/Magda	Stantec
10-Jul-23	6:45	Arctic Hare		1	near Welding Shop	Hopping	Shawn/Magda	Stantec
10-Jul-23	3:34	Muskox		herd	at Emulssion Plant	Living	Shawn/Magda	Stantec
10-Jul-23	3:40	Ptarmigan		family	on Road by Quarry	Scurrying about	Shawn/Magda	Stantec
11-Jul-23	6:27	Yellow warbler		1	at EISP	Flying	Shawn/Magda	Stantec
11-Jul-23	morn ing	Brown Birds		man y	over the Lake Roads	Flying	Shawn/Magda	Stantec
11-Jul-23	6:50	Arctic Hare		5	in WMP	Hopping	Shawn/Magda	Stantec
11-Jul-23	after noon	Brown Birds		man y	over Road to Emulssion Plant	Flying	Jim/Magda	Stantec
12-Jul-23	5:30	Muskox		herd	in WMP	Grazing	Magda	Stantec
12-Jul-23	7:30	Californi a Gull		1	over Snap Lake	Flying	Jim/Magda	Stantec
12-Jul-23	9:00	Arctic Hare		1	end of Haul Rd	Hopping	Jim/Magda	Stantec
12-Jul-23	9:05	Plover		1	EISP	Scurrying	Jim/Magda	Stantec
12-Jul-23	9:10	Bald Eagle		1	over Snap Lake	Getting harassed by a gull	Jim/Magda	Stantec
12-Jul-23	3:00	Stoat		1	near North Ditch	Murdering a baby bird	Jim/Magda	Stantec
12-Jul-23	3:00	White Crowne d Sparrow		1	near North Ditch	Chirping at stoat	Jim/Magda	Stantec
13-Jul-23	6:30	Brown Birds		Man y	FAR	Flying about	Jim/Magda	Stantec
13-Jul-23	5:40	Ravens		1	on truck in parking lot	Perching	Jim/Magda	Stantec
13-Jul-23	9:15	Muskox		herd	WISP	Grazing, resting	Jim/Magda	Stantec
13-Jul-23	9:18	Arctic Hare		1	Western Bird Habitat	Chewing	Jim/Magda	Stantec
13-Jul-23	4:21	White Crowne d Sparrow		3	Near AN pad	Flying	Jim/Magda	Stantec
14-Jul-23	5:49	Arctic Hare		1	Winter Road Dispatch	Hopping B.61	Jim/Magda	Stantec
14-Jul-23	6:30	Swallows		man y	over EISP	Hunting	Jim/Magda	Stantec
14-Jul-23	7:30	Arctic Hare		1	in EISP	Nibbling	Jim/Magda	Stantec
15-Jul-23	6:58	Arctic Hare		1	near Core Shack	hopping	Jim/Magda	Stantec
15-Jul-23	7:00	Arctic Hare		1	near Winter Road Dispatch	running	Jim/Magda	Stantec
15-Jul-23	7:04	Arctic Hare		1	in Sump 2	nibbling	Jim/Magda	Stantec
15-Jul-23	7:15	Fox		2	on Rib Bern between Cell 2 and 3	scampering	Jim/Magda	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

15-Jul-23	10:58	Arctic Hare		1	near Camp	getting swooped by swallow	Jim/Magda	Stantec
15-Jul-23	16:30	Ravens		4	over Camp	getting dive bombed by 3 swallows	Jim/Magda	Stantec
15-Jul-23	17:10	Arctic Hare		2	in WMP	Nibbling	Jim/Magda	Stantec
15-Jul-23	17:11	Plover		1	on Dam 1	Scurrying	Jim/Magda	Stantec
15-Jul-23	17:16	White Crowned Sparrow		2	at Dam 1	Flitting	Jim/Magda	Stantec
16-Jul-23	8:18	Ravens		4	near Comms Tower	Flying	Jim/Magda	Stantec
16-Jul-23	16:45	Arctic Hare		1	near Environmental Shop	Hopping	Jim/Magda	Stantec
17-Jul-23	6:30	Swallows		1	at EISP	Flying about	Jim/Magda	Stantec
17-Jul-23	6:31	Sandpiper		1	in EISP	wading	Jim/Magda	Stantec
17-Jul-23	6:48	Arctic Hare		1	parking lot	Hopping	Jim/Magda	Stantec
17-Jul-23	day	Arctic Hare		3	LV shop	Hopping	Jared	NUNA
18-Jul-23	6:29	Plover		3	EISP	Resting	Jim/Magda	Stantec
18-Jul-23	6:30	Swallows		Multiple	EISP	Flying	Jim/Magda	Stantec
18-Jul-23	6:35	Raven		2	Area 51?	Resting	Jim/Magda	Stantec
19-Jul-23	11:23	Rabbit		1	near Camp	Running	Sydney/Mark	Stantec
19-Jul-23	13:09	Sparrow		1	FAR	Resting	Sydney/Mark	Stantec
19-Jul-23	13:17	Sparrow		5	Comms Tower area	Flying	Sydney/Mark	Stantec
19-Jul-23	13:22	Raven		2	Comms Tower area	Resting	Sydney/Mark	Stantec
19-Jul-23	13:56	Swallow		1	EISP Colony	Flying	Sydney/Mark	Stantec
19-Jul-23	14:15	Raven		2	LV shop	Feeding	Sydney/Mark	Stantec
20-Jul-23	16:49	Sparrow		3	EISP	Flying	Sydney/Mark	Stantec
20-Jul-23	17:00	Raven		2	North Pile	Resting	Sydney/Mark	Stantec
20-Jul-23	17:01	Swallow		3	EISP	Flying B.62	Sydney/Mark	Stantec
20-Jul-23	17:10	Sparrow		8	Organics pile	Feeding	Sydney/Mark	Stantec
20-Jul-23	17:20	Sparrow		3	Quarry	Flying	Sydney/Mark	Stantec
20-Jul-23	17:30	Sparrow		1	Emulsion plant	Flying	Sydney/Mark	Stantec
20-Jul-23	17:32	Sparrow		1	Explosives magazine	Flying	Sydney/Mark	Stantec
20-Jul-23	17:50	Swallow		2	Cell SQ/LF Colony	Flying	Sydney/Mark	Stantec
21-Jul-23	8:13	Arctic Hare		1	WMP	Resting	Blake	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

21-Jul-23	8:30	Swallow		7	EISP	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	8:45	Sparrow		2	Process bld. Demo debris piles	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	9:10	Sparrow		1	WMP	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	11:35	Sparrow		5	Comms Tower	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	11:41	Sparrow		1	Fuel Tank Farm	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	13:37	Sparrow		1	LV shop	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	13:38	Sparrow		6	Boat launch	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	14:01	Gull		1	North pile	Flying	Sydney/Mark	Stantec
21-Jul-23	15:36	Sparrow		1	Camp	Flying/feeding	Sydney/Mark	Stantec
21-Jul-23	15:41	Musk Ox		8	South of camp	Resting	Sydney/Blake	Stantec
22-Jul-23	8:29	Musk Ox		11	southwest runway	Grazing		
22-Jul-23	9:19	Sparrow		1	msin water pumphouse	Flying	Sydney/Mark	Stantec
22-Jul-23	9:29	Swallow		6	EISP Colony	Flying	Sydney/Mark	Stantec
22-Jul-23	9:31	Sparrow		1	EISP	Flying	Sydney/Mark	Stantec
22-Jul-23	9:46	Raven		2	North pile	Feeding	Sydney/Mark	Stantec
22-Jul-23	9:51	Sparrow		3	runway	Flying	Sydney/Mark	Stantec
22-Jul-23	10:06	Barn Swallow		10+	Igloo at Logistics	Flying	Sydney/Mark	Stantec
22-Jul-23	10:10	Arctic Hare		2	Near Igloo at logistics	Resting	Sydney/Mark	Stantec
22-Jul-23	10:17	Swallow		2	WMP colony	Flying	Sydney/Mark	Stantec
22-Jul-23	13:15	Fox		3	Maintenance shop	Resting	Kyle	MetNuna
23-Jul-23	8:05	Willow Ptarmigan		1 adult 10 young	Entrance of road to AN Pad	Walking	Blake	Stantec
23-Jul-23	13:05	Sparrow		4	Boat launch	Flying	Sydney/Mark	Stantec
23-Jul-23	13:21	Swallow		6	EISP Colony	Flying B.63	Sydney/Mark	Stantec
23-Jul-23	13:30	Sparrow		3	EISP	Flying	Sydney/Mark	Stantec
23-Jul-23	13:41	Sparrow		1	Process bld. Demo debris piles	Flying	Sydney/Mark	Stantec
23-Jul-23	14:51	Swallow		2	EISP	Flying	Sydney/Mark	Stantec
23-Jul-23	14:53	Musk Ox		herd	Near airstrip	Grazing		MetNuna
23-Jul-23	15:31	Swallow		1	North pile	Flying	Sydney/Mark	Stantec
24-Jul-23	8:15	Ravens		2	Camp	Resting	Sydney/Mark	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

24-Jul-23	8:45	Swallow		4	FAR	Flying	Mark	Stantec
24-Jul-23	8:47	Arctic Hare		1	near LV shop	Hopping/resting	Sydney/Mark	Stantec
24-Jul-23	8:50	Swallow		6	EISP Colony	Flying	Sydney/Mark	Stantec
24-Jul-23	8:55	Arctic Hare		1	former cement storage pad	Flying	Sydney/Mark	Stantec
24-Jul-23	14:20	Swallow		2	Utilities tank	Flying	Sydney/Mark	Stantec
24-Jul-23	14:36	Gull		1	Snap Lake	Flying	Sydney/Mark	Stantec
24-Jul-23	14:37	Swallow		2	Comms tower	Flying	Sydney/Mark	Stantec
24-Jul-23	16:01	Swallow		1	Near camp kitchen	Hopping	Sydney	Stantec
25-Jul-23	7:52	sparrow		2	near comms tower	flying	Sydney/Mark	Stantec
25-Jul-23	8:08	Sparrow		1	pump house	flying	Sydney/Mark	Stantec
25-Jul-23	8:15	Arctic Hare		1	EISP	hopping	Sydney/Mark	Stantec
25-Jul-23	8:20	Swallow		10	EISP Colony	flying	Sydney/Mark	Stantec
25-Jul-23	14:57	Sparrow		2	AN pad	flying	Sydney/Mark	Stantec
25-Jul-23	14:59	Sparrow		4	Emulsion plant	flying	Sydney/Mark	Stantec
25-Jul-23	15:25	swallow		4	camp	flying	Sydney/Mark	Stantec
26-Jul-23	8:18	swallow		3	FAR	flying	Sydney/Mark	Stantec
26-Jul-23	8:30	swallow		3	EISP Colony	flying	Sydney/Mark	Stantec
26-Jul-23	8:38	swallow		5	WMP colony	flying	Sydney/Mark	Stantec
26-Jul-23	8:54	swallow		4	North Pile	flying	Sydney/Mark	Stantec
26-Jul-23	15:47	swallow		2	Emulsion area	flying	Sydney/Mark	Stantec
26-Jul-23	16:04	swallow		1	WMP	flying	Sydney/Mark	Stantec
26-Jul-23	16:05	swallow		6	WMP colony	flying	Sydney/Mark	Stantec
27-Jul-23	7:49	Raven		1	Camp	Resting	Sydney/Mark	Stantec
27-Jul-23	7:53	Arctic Hare		1	near LV shop	Resting	Sydney/Mark	Stantec
27-Jul-23	7:59	Sparrow		3	pump house	Flying B.64	Sydney/Mark	Stantec
27-Jul-23	8:05	swallow		8	EISP Colony	Flying	Sydney/Mark	Stantec
27-Jul-23	8:18	swallow		3	WMP colony	Flying	Sydney/Mark	Stantec
27-Jul-23	14:17	Sparrow		1	Emulsion plant	Flying	Sydney/Mark	Stantec
27-Jul-23	14:18	Sparrow		2	AN Road	Flying	Sydney/Mark	Stantec
27-Jul-23	15:30	Unidentified bird		1	Camp kitchen loading dock	Flying	Nick	Horizon
28-Jul-23	7:45	Arctic Hare		1	camp	Hopping	Sydney/Mark	Stantec
28-Jul-23	8:15	Sparrow		3	pump house	Flying	Sydney/Mark	Stantec



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23								
28-Jul-23	8:27	Sparrow		7	near pump house	Flying	Sydney/Mark	Stantec
28-Jul-23	8:31	swallow		10	Quarry	Flying	Sydney/Mark	Stantec
28-Jul-23	8:45	swallow		7	North pile	Flying	Sydney/Mark	Stantec
28-Jul-23	13:20	raven		2	camp	Resting	Sydney/Mark	Stantec
28-Jul-23	13:38	Sparrow		1	Comms	Flying	Sydney/Mark	Stantec
28-Jul-23	13:40	Sparrow		1	FAR	Flying	Sydney/Mark	Stantec
28-Jul-23	13:41	seagull		1	Snap Lake	Flying	Sydney/Mark	Stantec
28-Jul-23	14:00	swallow		6	EISP Colony	Flying	Sydney/Mark	Stantec
29-Jul-23	7:05	Ravens		2	Camp	Resting	Sydney/Mark	Stantec
29-Jul-23	7:25	Sparrow		1	Former process area	Flying	Sydney/Mark	Stantec
29-Jul-23	7:40	raven		2	Cell SQ	Resting	Sydney/Mark	Stantec
29-Jul-23	7:41	swallow		2	north pile	Flying	Sydney/Mark	Stantec
29-Jul-23	9:20	Arctic Hare		2	new camp	Hopping	Sydney/Mark	Stantec
29-Jul-23	13:43	swallow		21	WISP	Flying	Sydney/Mark	Stantec
30-Jul-23	8:10	Sparrow		7	FAR	Flying	Sydney/Mark	Stantec
30-Jul-23	8:11	Arctic Hare		1	FAR	hopping	Sydney/Mark	Stantec
30-Jul-23	8:30	swallow		6	EISP Colony	Flying	Sydney/Mark	Stantec
30-Jul-23	8:45	Sparrow		5	WISP	Flying	Sydney/Mark	Stantec
30-Jul-23	8:49	Arctic Hare		1	Tank farm	hopping	Sydney/Mark	Stantec
30-Jul-23	9:30	swallow		10+	igloo colony	Flying	Sydney/Mark	Stantec
30-Jul-23	10:40	Ravens		3	camp	Resting	Sydney/Mark	Stantec
31-Jul-23	8:36	Arctic Hare		1	Boat launch	Hopping	Sydney/Mark	Stantec
31-Jul-23	8:54	swallow		10+	EISP colony	Flying	Sydney/Mark	Stantec
31-Jul-23	9:12	gull		1	sanvik	Flying	Sydney/Mark	Stantec
31-Jul-23	9:12	raven		3	Sandvik	Flying	Sydney/Mark	Stantec
31-Jul-23	9:34	fox		1	WISP	Running	radio	Nuna
31-Jul-23	2:39	sparrow		4	Burn Pit	flying	Sydney/Mark	Stantec
31-Jul-23	3:35	raven		3	camp	resting	Sydney/Mark	Stantec
1-Aug-23	8:18	gull		1	FAR	Flying	Sydney/Mark	Stantec
1-Aug-23	8:30	Sandpiper		2	EISP	resting	Sydney/Mark	Stantec
1-Aug-23	8:30	swallow		10+	EISP Colony	flying	Sydney/Mark	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

1-Aug-23	8:35	raven		2	north ditch	flying	Sydney/Mark	Stantec
2-Aug-23	6:30	Arctic Hare		1	WISP	hopping	Sydney/Shawn	Stantec
2-Aug-23	6:55	Arctic Hare		2	comms tower	hopping	Sydney/Shawn	Stantec
2-Aug-23	6:55	Yellow warbler		4	comms tower	flying	Sydney/Shawn	Stantec
2-Aug-23	2:45	ravens		4	North Pile	flying	Sydney/Shawn	Stantec
3-Aug-23	6:30	Arctic Hare		2	North pile	flying	Sydney/Shawn	Stantec
3-Aug-23	6:40	raven		6	North pile	flying	Sydney/Shawn	Stantec
4-Aug-23	6:35	swallow		8	EISP Colony	flying	Sydney/Shawn	Stantec
4-Aug-23	14:48	raven		3	Tank farm	flying	Sydney/Shawn	Stantec
4-Aug-23	15:15	raven		8	north pile	flying	Sydney/Shawn	Stantec
4-Aug-23	15:25	swallow		4	north pile	flying	Sydney/Shawn	Stantec
5-Aug-23	6:25	Arctic Hare		1	WISP	hopping	Sydney/Shawn	Stantec
5-Aug-23	6:30	gull		1	north pile	flying	Sydney/Shawn	Stantec
5-Aug-23	6:31	raven		5	north pile	flying	Sydney/Shawn	Stantec
5-Aug-23	6:35	swallow		4	EISP Colony	flying	Sydney/Shawn	Stantec
5-Aug-23	14:30	raven		4	near tank farm	flying	Sydney/Shawn	Stantec
6-Aug-23	11:30	Arctic Hare		1	near tank farm	hopping	Ron	Nuna
6-Aug-23	14:15	gull		1	near tank farm	flying	Sydney/Shawn	Stantec
6-Aug-23	14:30	sparrow		2	pump house	flying	Sydney/Shawn	Stantec
6-Aug-23	15:00	ravens		2	north pile	flying	Sydney/Shawn	Stantec
6-Aug-23	15:30	ravens		3	north pile	flying	Sydney/Shawn	Stantec
9-Aug-23	6:22	Arctic Hare	Adult	1	Dispatch Office	Hopping	Kia/Shawn	Stantec
9-Aug-23	6:49	Raven		1	LV shop	Sitting	Kia/Shawn	Stantec
9-Aug-23	6:39	Bank swallows		2	EISP Colony	Flying, visiting nests	Kia/Shawn	Stantec
9-Aug-23	14:25	Cliff swallow		1	Igloo @ Logistics	Chirping B.66	Kia/Shawn	Stantec
9-Aug-23		White Crowned Sparrow		Multiple	Site	Flying	Kia/Shawn	Stantec
10-Aug-23	6:43	California gull		1	Snap Lake	Flying	Kia/Shawn	Stantec
10-Aug-23	13:30	Raven	Adult	1	Landfarm	Flying	Kia/Shawn	Stantec
10-Aug-23	14:27	California gull	Adult	1	Emulsion pad	Flying	Kia/Shawn	Stantec
10-Aug-23	14:29	Raven	Adult	1	AN	Flying	Kia/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

10-Aug-23	6:34	Bank swallows		2	EISP Colony	Flying around nests	Kia/Shawn	Stantec
11-Aug-23		Raven		1	Near camp		Kia/Shawn	Stantec
12-Aug-23	6:33	Raven		3	Over Dam 2	Flying	Kia/Shawn	Stantec
12-Aug-23	7:00	Arctic Hare	Adult	1	Coms Tower	Grazing	Kia/Shawn	Stantec
12-Aug-23	7:06	Arctic Hare	Adult	1	Near EISP	Hopping	Kia/Shawn	Stantec
13-Aug-23	6:54	Arctic Hare	Adult	1	Near EISP	Hopping	Kia/Shawn	stantec
13-Aug-23	14:00	Cliff swallow		3	Igloo @ Logistics	Flying	Kia/Shawn	Stantec
13-Aug-23	14:30	Gull		1	Snap Lake	Flying	Kia/Shawn	Stantec
14-Aug-23	14:07	Raven		1	Emulsion pad	Flying	Kia/Shawn	Stantec
15-Aug-23	6:40	Raven		1	North Ditch	Flying	Kia/Shawn	Stantec
15-Aug-23	6:55	Gull		1	Snap Lake	Flying	Kia/Shawn	Stantec
15-Aug-23	10:23	raven	adult	2	Over Logistics	Flying	Kia/Shawn	Stantec
15-Aug-23	10:25	Cliff swallow	Young and Adults	6	Igloo @ Logistics	Flying	Kia/Shawn	Stantec
16-Aug-23	6:30	Merlin		2	Over FAR	Flying	Kia/Shawn	Stantec
16-Aug-23	6:30	raven		3	over FAR	Flying	Kia/Shawn	Stantec
17-Aug-23	6:36	Loon		1	over Snap Lake	Flying	Kia/Shawn	Stantec
17-Aug-23	6:51	Raven		1	Over FAR	flying	Kia/Shawn	Stantec
17-Aug-23	7:00	Arctic Hare		1	Near Coms Tower	Eating	Kia/Shawn	Stantec
18-Aug-23	6:27	fox		1	EISP	running	Kia/Shawn	Stantec
18-Aug-23	6:47	Barn Swallow	Young and Adults	4	Red building near camp	Flying	Kia/Shawn	Stantec
18-Aug-23	10:43	Gull		1	over Snap Lake	Flying	Kia/Shawn	Stantec
19-Aug-23	6:41	Raven		1	Over Landfarm	Flying	Kia/Shawn	Stantec
19-Aug-23	9:59	Arctic Hare	Adult	2	Winter Road Dispatch	Hopping	Kia/Shawn	Stantec
19-Aug-23	9:50	Raven		2	Over EISP	Flying B.67	Kia/Shawn	Stantec
20-Aug-23	7:00	Arctic Hare		1	EISP	Hopping	Kia/Shawn	Stantec
20-Aug-23	11:20	Merlin		3	Over camp	Flying	Kia/Shawn	Stantec
20-Aug-23	16:31	Arctic Hare		1	Opposite EISP	Hopping	Kia/Shawn	Stantec
20-Aug-23	16:00	Bank swallows		5	NW corner of EISP	Flying, visiting nests	Kia/Shawn	Stantec
21-Aug-23	6:43	Ravens		2	FAR	Walking	Kia/Shawn	Stantec
21-Aug-	6:34	gull		1	Snap Lake	Flying	Kia/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23								
21-Aug-23	6:34	Squirrel		1	Lake Station	Running	Kia/Shawn	Stantec
22-Aug-23	6:30	Arctic Hare		1	FAR	hopping	Kia/Shawn	Stantec
23-Aug-23	6:26	Arctic Hare		1	EISP	hopping	Kia/Magda	Stantec
24-Aug-23	7:00	Arctic Hare		1	Near Coms Tower	hopping	Kia/Magda	Stantec
25-Aug-23	7:00	Raven	Adult	1	Over North Ditch	Flying	Kia/Magda	Stantec
25-Aug-23	10:00	gull		1	Snap Lake		Kia/Magda	Stantec
25-Aug-23	14:15	Arctic Hare		1	At Hill Met Station		Kia/Magda	Stantec
26-Aug-23	6:28	Arctic Hare		1	EISP	hopping	Kia/Magda	Stantec
26-Aug-23	14:38	Arctic Hare	Adult	1	EISP	hopping	Kia/Magda	Stantec
26-Aug-23	16:00	Arctic Hare		1	Dam 2 spillway	grazing	Kia/Magda	Stantec
28-Aug-23	15:05	Arctic Hare	Adult	1	Coms Tower	Hopping	Kia/Magda	Stantec
28-Aug-23	15:30	Arctic Hare	Adult	1	Core shack	Hopping	Kia/Magda	Stantec
29-Aug-23	6:30	Flock of geese			over Snap Lake	Flying	Kia/Magda	Stantec
29-Aug-23	6:35	Loons		2	Snap Lake	Swimming	Kia/Magda	Stantec
30-Aug-23	5:45	Arctic Hare		2	Haul road	running	Magda/Natalie/Sydney	Stantec
30-Aug-23	6:18	Small brown birds		5	North ditch	Flying	Magda/Natalie/Sydney	Stantec
30-Aug-23	6:32	Raven		1	North ditch	Flying	Magda/Natalie/Sydney	Stantec
30-Aug-23	6:40	Arctic Hare		1	Road near Portal	Hopping	Magda/Natalie/Sydney	Stantec
30-Aug-23	6:42	Raven		1	Over camp	flying	Magda/Natalie/Sydney	Stantec
30-Aug-23	10:45	Geese		flock	over Snap Lake	Flying	Magda/Natalie/Sydney	Stantec
31-Aug-23	6:00	Raven		1	Winter Road Dispatch	Flying	Magda/Natalie/Sydney	Stantec
31-Aug-23	9:30	Arctic Hare		1	new landfarm	Hopping	Magda/Natalie/Sydney	Stantec
31-Aug-23	6:30	Hawk		1	FAR	Flying	radio	Nuna
31-Aug-23	12:00	Red mice		2	RAR	Scurrying B.68	radio	Nuna
31-Aug-23	10:00	Fox		1	logistics	Stalking	radio	Nuna
31-Aug-23	17:15	Arctic Hare		1	carpenter shop	Resting	Magda/Natalie/Sydney	Stantec
1-Sep-23	7:00	Arctic Hare		1	EISP	hopping	Magda/Sydney	Stantec
1-Sep-23	13:00	Arctic Hare		1	Parking lot	hopping	Magda/Sydney	Stantec
1-Sep-23	14:00	unidentified birds		4	WISP	Flying	Magda/Sydney	Stantec
2-Sep-23	7:00	squirrel		1	Winter Road Dispatch	scampering	Magda/Sydney	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

2-Sep-23	7:30	arctic hare		1	logistics	Resting	Magda/Sydney	Stantec
2-Sep-23		arctic hare		1			Natalie/Sydney	Stantec
2-Sep-23		arctic hare		2			Natalie/Sydney	Stantec
3-Sep-23	7:45	loon		1	Snap Lake	warbling	Sydney/Magda	Stantec
3-Sep-23	7:50	Arctic Hare		3	LV Shop	hoping	radio	Nuna
3-Sep-23	7:55	Squirrel		1	near EISP	Scurrying	Sydney/Magda	Stantec
3-Sep-23	15:15	Ptarmigan		1	airstrip	standing	Sydney/Magda	Stantec
3-Sep-23	15:40	raven		1	cores	perching	Sydney/Magda	Stantec
3-Sep-23	7:24	Raven		1	incinerator building	perching	Sydney/Magda	Stantec
4-Sep-23	8:00	Small brown birds		many	near dock	Flying, visiting nests	Sydney/Magda	Stantec
4-Sep-23	8:40	Hawk		1	north pile	perching	Sydney/Magda	Stantec
5-Sep-23	7:10	Sparrow		1	near FAR	flying	Sydney/Magda	Stantec
5-Sep-23	17:00	Raven		1	north pile	Flying	Sydney/Magda	Stantec
5-Sep-23	17:05	medium brown bird		1	lake road	Flying	Sydney/Magda	Stantec
6-Sep-23	6:40	arctic hare		1	WMP	grazing	Tristan	Tera-water
6-Sep-23	6:40	fox		1	WMP	being	Tristan	Tera-water
6-Sep-23	7:00	arctic hare		1	Comms Tower	digging	Sydney/Magda	Stantec
6-Sep-23	10:00	Small brown birds		many	carpenter shop	Flying	Sydney/Magda	Stantec
6-Sep-23	12:30	Red tailed hawk		1	area 51	flying	Sydney/Magda	Stantec
7-Sep-23	12:00	red headed mouse		1	RAR	scurrying	Tyler	Contour
7-Sep-23	6:25	Raven		1	north pile	Flying	Sydney/Magda	Stantec
7-Sep-23	9:11	duck		1	EISP	swimming	Sydney/Magda	Stantec
7-Sep-23	9:15	black crowned sparrow		1	EISP	flitting B.69	Sydney/Magda	Stantec
7-Sep-23	16:45	squirrel		1	FAR	scampering	Sydney/Magda	Stantec
8-Sep-23	6:40	Red tailed hawk		1	Road to Emulsion Plant	perching	Sydney/Magda	Stantec
8-Sep-23	6:45	Raven		1	north pile	soaring	Sydney/Magda	Stantec
9-Sep-23	6:20	Ravens		1	north pile	flying	Sydney/Magda	Stantec
9-Sep-23	6:33	Ptarmigan		1	airstrip	Resting	Radio	Nuna

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

9-Sep-23	6:40	unidentified birds		9	emulsion plant	flying	Sydney/Magda	Stantec
10-Sep-23	9:20	Ravens		1	North ditch	flying	Sydney/Magda	Stantec
10-Sep-23	10:00	arctic hare		1	area 51	Hopping	Sydney/Magda	Stantec
11-Sep-23	10:05	unidentified birds		multiple	EISP	Flying	Sydney/Magda	Stantec
11-Sep-23	10:30	muskox		1	airstrip	attacking lights	Ed	Nuna
11-Sep-23	16:30	hawk		1	emulsion plant	Flying	Sydney/Magda	Stantec
11-Sep-23	16:40	Arctic Hare		1	emulsion plant	hopping	Sydney/Magda	Stantec
11-Sep-23	17:00	Raven		1	Snap Lake	flying	Sydney/Magda	Stantec
12-Sep-23	6:40	arctic hare		1	emulsion plant	Resting	Sydney/Magda	Stantec
12-Sep-23	11:10	vole		1	Comms Tower	scurrying	Sydney/Magda	Stantec
13-Sep-23	11:02	unidentified birds		3	Emulsion plant road	Flying	Sydney	Stantec
13-Sep-23	3:32	arctic hare		1	Generator	Hopping	Sydney	Stantec
13-Sep-23	4:30	arctic hare		1	Mechanic shop	Resting	Sydney	Stantec
14-Sep-23	10:00	fox and arctic hare		2	New camp	Fox chasing rabbit	Dave	Horizon
14-Sep-23	12:56	ducks		1	Snap Lake	Flying	Sydney	Stantec
15-Sep-23	9:02	arctic hare		1	tank farm	Resting	sydney	Stantec
15-Sep-23	10:01	unidentified birds		5	WMP	flying	sydney	Stantec
15-Sep-23	3:30	fox		1	Camp road	crossing	sydney/erica	stantec
15-Sep-23	5:15	arctic hare		1	airstrip	feeding	sydney/erica	stantec
15-Sep-23	5:25	Ptarmigan		8	logistics	Resting	sydney/erica	stantec
16-Sep-23	8:00	lapland longspur		2	EISP	feeding	sydney/erica	stantec
16-Sep-23	8:00	robin		1	EISP	feeding	sydney/erica	stantec
16-Sep-23	3:45	cranes		30	over site	flying	sydney/erica	stantec
17-Sep-23	11:15	sparrow		3	North ditch road	flying	sydney/erica	stantec
17-Sep-23	16:30	Ravens		1	camp	flying B.70	sydney/erica	Stantec
17-Sep-23	17:30	arctic hare		2	warehouse	hopping	sydney/erica	Stantec
18-Sep-23	6:40	Ptarmigan		30	Airstrip	Flocking	Ron	Nuna
18-Sep-23	6:40	arctic hare		10	airstrip	Resting	Ron	nuna
18-Sep-23	12:10	arctic hare		1	behind camp	hiding	sydney/erica	Stantec
18-Sep-23	12:05	unidentified birds		1	gazebo	flying	sydney/erica	Stantec
18-Sep-23	15:05	unidentified birds		2	airstrip	Flying	sydney/erica	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

18-Sep-23	15:15	redpolls(?)		5	airstrip	Flying	sydney/erica	Stantec
18-Sep-23	15:25	arctic hare		1	airstrip	Resting	sydney/erica	Stantec
18-Sep-23	15:25	unidentified birds		8	airstrip	flying	sydney/erica	Stantec
19-Sep-23	6:55	arctic hare		1	Comms Tower		Sydney/ERICA	Stantec
19-Sep-23	6:30	arctic hare		1	near old camp		sydney/erica	Stantec
19-Sep-23	7:00	Raven		1	camp		sydney/erica	Stantec
19-Sep-23	8:30	arctic hare		1	EISP		Sydney/ERICA	Stantec
19-Sep-23	16:00	Raven		1	over WISP	Flying	Kia/Shawn	Stantec
20-Sep-23	10:40	arctic hare		2	EISP	hopping	Kia/Shawn	Stantec
20-Sep-23	14:27	raven		1	Camp parking lot	Flying	Kia/Shawn	Stantec
20-Sep-23	15:43	raven		1	over WISP	flying	Kia/Shawn	Stantec
21-Sep-23	8:18	raven		1	carpenter shop	sitting on back of truck	Kia/Shawn	Stantec
21-Sep-23	8:33	raven		1	near FAR	sitting	Kia/Shawn	Stantec
22-Sep-23	8:02	arctic hare		3	Comms Tower	Hopping	Kia/Shawn	Stantec
22-Sep-23	8:02	raven		1	Comms Tower	Sitting	Kia/Shawn	Stantec
22-Sep-23	8:04	arctic hare		1	near LV shop	sitting	Kia/Shawn	Stantec
22-Sep-23	8:10	geese		6	in pond at IL6	Swimming	Kia/Shawn	Stantec
22-Sep-23	14:10	raven		1	over camp	flying	Kia/Shawn	Stantec
23-Sep-23	8:24	arctic hare		1	Comms Tower	sitting	Kia/Shawn	Stantec
23-Sep-23	8:27	arctic hare		1	Modular plant	sitting	Kia/Shawn	Stantec
23-Sep-23	8:32	arctic hare		1	Btwn Enviro shop & LV shop	hopping	Kia/Shawn	Stantec
23-Sep-23	8:37	arctic hare		1	tank farm	hopping	Kia/Shawn	Stantec
23-Sep-23	9:02	Flock of geese			IL6	Swimming	Kia/Shawn	Stantec
23-Sep-23	13:42	arctic hare		1	Comms Tower	hopping	Kia/Shawn	Stantec
24-Sep-23	9:52	squirrel		1	Comms Tower	Running B.71	Kia/Shawn	Stantec
24-Sep-23	13:01	raven		2	over North Pile	flying	Kia/Shawn	Stantec
24-Sep-23	13:11	Sandhill crane		3	over North Pile	Flying	Kia/Shawn	Stantec
24-Sep-23	13:14	Raven		10	Over organic pile	Flying	Kia/Shawn	Stantec
24-Sep-23	13:32	unidentified raptor		1	over emulsion pad	flying	Kia/Shawn	Stantec
24-Sep-23	13:33	flock of snow buntings			Near Emulsion Pad	Flying	Kia/Shawn	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

25-Sep-23	14:20	ravens		4	over North ditch road	Flying	Kia/Shawn	Stantec
26-Sep-23	7:58	arctic hare		1	Comms Tower	sitting	Kia/Shawn	Stantec
26-Sep-23	8:16	arctic hare		2	EISP	sitting	Kia/Shawn	Stantec
27-Sep-23	8:30	raven		1	over North ditch road	flying	Kia/Shawn	Stantec
27-Sep-23	8:35	arctic hare		1	EISP	grazing	Kia/Shawn	Stantec
27-Sep-23	8:42	snow bunting		1	North Pile	flying	Kia/Shawn	Stantec
27-Sep-23	8:44	arctic hare		1	at Emulsion pad	sitting	Kia/Shawn	Stantec
28-Sep-23	8:54	snow bunting		8	EISP	flying	Kia/Shawn	Stantec
28-Sep-23	13:30	raven		1	Over Landfarm	flying	Kia/Shawn	Stantec
29-Sep-23	8:30	arctic hare		1	next to Contour shack	grazing	Kia/Shawn	Stantec
29-Sep-23	9:02	raven		1	over Dam 2	flying	Kia/Shawn	Stantec
29-Sep-23	12:55	arctic hare		1	berm of North Pile	Sitting	Kia/Shawn	Stantec
29-Sep-23	13:02	arctic hare		1	emulsion pad	sitting	Kia/Shawn	Stantec
29-Sep-23	13:05	flock of snow buntings			emulsion pad	flying	Kia/Shawn	Stantec
29-Sep-23		Fox		1	New camp	walking	David	Horizon
30-Sep-23	8:18	raven		2	over LV shop	flying	Kia/Shawn	Stantec
30-Sep-23	8:58	raven		1	over camp	flying	Kia/Shawn	Stantec
30-Sep-23	9:11	raven		1	over camp	flying	Kia/Shawn	Stantec
30-Sep-23	10:18	flock of ptarmigan			near Logistics	Flying	Mike	Stantec
30-Sep-23	15:20	arctic hare		1	LV shop	sitting	Kia/Shawn	Stantec
1-Oct-23	9:09	arctic hare		1	EISP	sitting	Kia/Shawn	Stantec
1-Oct-23	9:09	Ptarmigan		20	Opposite EISP	flying	Kia/Shawn	Stantec
1-Oct-23	9:23	arctic hare		1	road to emulsion pad	sitting	Kia/Shawn	Stantec
1-Oct-23	10:38	raven		1	kitchen dock	sitting B.72	Kia/Shawn	Stantec
1-Oct-23	12:43	squirrel		1	LV shop	scurrying	Kia/Shawn	Stantec
1-Oct-23	13:20	arctic hare		1	berm of North Pile	sitting	Kia/Shawn	Stantec
2-Oct-23	8:37	arctic hare		3	EISP	sitting	Kia/Shawn	Stantec
2-Oct-23	8:45	arctic hare		1	opposite WISP	sitting	Kia/Shawn	Stantec
2-Oct-23	8:48	arctic hare		1	next to Contour shack	grazing	Kia/Shawn	Stantec
2-Oct-23	8:50	arctic hare		1	Landfarm	sitting	Kia/Shawn	Stantec
2-Oct-23	9:05	arctic		1	Behind LV	sitting	Kia/Shawn	Stantec



## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

		hare			Shop			
2-Oct-23	14:24	arctic hare		1	landfarm	hopping	Kia/Shawn	Stantec
2-Oct-23	14:45	arctic hare		2	road to emulsion pad	hopping	Kia/Shawn	Stantec
2-Oct-23	14:54	arctic hare		2	bottom of organics pile	grazing	Kia/Shawn	Stantec
3-Oct-23	8:27	arctic hare		1	North pile berm	sitting	Kia/Shawn	Stantec
3-Oct-23	8:30	Ptarmigan		15	sitting	North ditch road	Kia/Shawn	Stantec
3-Oct-23	8:32	snow bunting		1	Over Dam 2	flying	Kia/Shawn	Stantec
3-Oct-23	8:45	raven		1	over camp	flying	Kia/Shawn	Stantec
3-Oct-23	8:55	arctic hare		1	behind camp	grazing	Kia/Shawn	Stantec
4-Oct-23	13:15	raven		1	over coms tower	flying	Kia/Jim	Stantec
4-Oct-23	13:40	ptarmigans		20	Road to emulsion pad	sitting	Kia/Jim	Stantec
4-Oct-23	14:00	raven		1	over camp	flying	Kia/Jim	Stantec
5-Oct-23	8:00	muskox		1	Cell 1		Larry	Nuna
5-Oct-23	8:30	caribou		2	North Ditch road		Bill	Nuna
5-Oct-23	9:51	arctic hare		1	EISP	sitting	Kia/Jim	Stantec
5-Oct-23	13:30	wolverine		1	Logistics -> Airstrip	looking for food/shelter	Kia/Jim	Stantec
5-Oct-23	13:54	raven		2	airstrip	flying	Kia/Jim	Stantec
5-Oct-23	14:20	arctic hare		1	Airstrip tower	grazing	Kia/Jim	Stantec
5-Oct-23	14:35	ptarmigans		3 dozen	next to airstrip	flying	Kia/Jim	Stantec
5-Oct-23	15:00	fox		1	Road to emulsion pad	running	Kia/Jim	Stantec
5-Oct-23	18:00	wolverine		1	Camp kitchen deck		Kia/Jim	Stantec
6-Oct-23	7:16	flock of ptarmigan			enviroshop	flying	radio	Nuna
6-Oct-23	9:22	arctic hare		1	North pile berm	sitting	Kia/Jim	Stantec
6-Oct-23	9:29	arctic hare		1	EISP	grazing	Kia/Jim	Stantec
6-Oct-23	9:25	ptarmigans		15	North ditch road	flying B.73	Kia/Jim	Stantec
6-Oct-23	9:48	raven		1	over LV shop	flying	Kia/Jim	Stantec
6-Oct-23	9:51	arctic hare		1	next to Modular plant	Sitting	Kia/Jim	Stantec
6-Oct-23	10:01	muskox		10	next to road to emulsion pad	grazing, playing	Kia/Jim	stantec
6-Oct-23	10:01	arctic hare		1	next to road to emulsion pad	grazing	Kia/Jim	stantec
6-Oct-23	9:55	raven		1	over North Pile	flying	Kia/Jim	stantec
6-Oct-23	13:10	Herd of muskox			Airstrip	walking	Vinny	Nuna
6-Oct-23	15:3	arctic		1	Camp Parking	running	Kia/Jim	stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

	1	hare			Lot			
7-Oct-23	9:05	raven		1	over Dam 1	flying	Kia/Jim	stantec
7-Oct-23	9:18	raven		1	sitting on Coms Tower	crowing	Kia/Jim	stantec
7-Oct-23	9:30	raven		1	WISP	flying	Kia/Jim	Stantec
7-Oct-23	12:40	wolverine		1	camp kitchen deck	looking for food	Kia/Jim	Stantec
7-Oct-23	13:25	raven		1	over North Ditch road	flying	Kia/Jim	Stantec
7-Oct-23	17:30	arctic hare		1	Behind LV Shop	sitting	Kia/Jim	Stantec
8-Oct-23	9:43	snow bunting		4	over north ditch road	flying	Kia/Jim	Stantec
8-Oct-23	9:44	arctic hare		2	North pile berm	sitting	Kia/Jim	Stantec
8-Oct-23	9:50	ptarmigans		30	north ditch road	sitting	Kia/Jim	Stantec
8-Oct-23	10:02	arctic hare		1	tank farm	sitting	Kia/Jim	Stantec
8-Oct-23	10:30	wolverine		1	Dispatch Office	running	Kia/Jim	Stantec
8-Oct-23	11:11	ptarmigans		many	ditch opposite EISP	sitting	Kia/Jim	Stantec
8-Oct-23	14:00	wolverine		1	Logistics	running	Kia/Jim	Stantec
8-Oct-23	14:38	arctic hare		1	EISP	grazing	Kia/Jim	Stantec
9-Oct-23	7:00	wolverine		1	camp kitchen deck	looking for food	Matthew	Nuna
9-Oct-23	8:14	arctic hare		1	Comms Tower	Sitting	Kia/Jim	Stantec
9-Oct-23	8:09	raven		1	over camp	flying	Kia/Jim	Stantec
9-Oct-23	8:20	arctic hare		1	opposite Comms Tower	grazing	Kia/Jim	Stantec
9-Oct-23	8:21	arctic hare		1	Behind LV Shop	sitting	Kia/Jim	Stantec
9-Oct-23	8:30	arctic hare		1	EISP	grazing	Kia/Jim	Stantec
9-Oct-23	8:30	arctic hare		1	North pile berm	sitting	Kia/Jim	Stantec
9-Oct-23	8:28	ptarmigans		3	North pile road	sitting	Kia/Jim	Stantec
9-Oct-23	14:30	arctic hare		1	EISP	hopping	Kia/Jim	Stantec
10-Oct-23	8:07	arctic hare		1	EISP	grazing	Kia/Jim	Stantec
10-Oct-23	8:20	arctic hare		1	Contour shack	resting B.74	Kia/Jim	Stantec
10-Oct-23	8:20	ptarmigans		multiple	N. ditch road	resting	Kia/Jim	Stantec
11-Oct-23	14:30	small birds		7	AN road	flying	sydney/jim	Stantec
11-Oct-23	14:50	raven		1	WMP	flying	sydney/jim	Stantec
11-Oct-23	15:45	small birds		16	Air strip	flying	sydney/jim	Stantec
12-Oct-23	9:30	bird		1	EISP	flying	sydney/jim	Stantec
12-Oct-23	16:15	birds		6	An pad road	flying	sydney/jim	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

13-Oct-23	16:00	snowbunting		1	EISP	flying	sydney/jim	Stantec
13-Oct-23	16:30	redpoll		1	AN pad road	flying	sydney/jim	Stantec
14-Oct-23	8:15	fox		1	Incinerator	trotting	sydney/jim	Stantec
14-Oct-23	16:15	raven		1	North pile	flying	sydney/jim	Stantec
14-Oct-23	16:30	redpoll		9	EISP	flying	sydney/jim	Stantec
15-Oct-23	7:45	ptarmigans		200	airstrip	flying	sydney/jim	Stantec
15-Oct-23	8:00	arctic hare		1		flying	sydney/jim	Stantec
15-Oct-23	9:15	raven		1	north pile	flying	sydney/jim	Stantec
15-Oct-23	9:30	redpoll		2	EISP	flying	sydney/jim	Stantec
15-Oct-23	14:13	ptarmigans		40	AN pad road	flying	sydney/jim	Stantec
15-Oct-23	14:18	arctic hare		1	AN pad road	flying	sydney/jim	Stantec
16-Oct-23	12:38	wolverine		1	modular	headed towards Snap Lake	Ed	radio
16-Oct-23	9:20	ptarmigan		7	Snap Lake	resting	sydney/jim	Stantec
16-Oct-23	9:30	weasel		1	modular	mouse in mouth	Tristan	Terra
17-Oct-23	8:00	wolverine		1	behind camp	trying to get into kitchen	safety	Nuna
17-Oct-23	9:00	raven		1	camp	resting	sydney/jim	Stantec
17-Oct-23	9:15	hares		3	EISP	resting on a rock	sydney/jim	Stantec
18-Oct-23	4:05	hares		1	EISP	resting	sydney/jason	Stantec
18-Oct-23	4:20	hares		2	Comms Tower	hopping	sydney/jason	Stantec
19-Oct-23	14:20	raven		1	North pile	flying	sydney/jason	Stantec
19-Oct-23	14:00	muskox		13	AN pad	grazing	sydney/jason	Stantec
19-Oct-23	14:40	ptarmigans		15	EISP	resting	sydney/jason	Stantec
19-Oct-23	14:30	hares		1	EISP	resting	sydney/jason	Stantec
19-Oct-23	14:50	ptarmigans		1	Pumphouse	resting	sydney/jason	Stantec
19-Oct-23	15:00	hares		1	FAR	resting B.75	sydney/jason	Stantec
20-Oct-23	8:30	raven		1	front of camp	resting	sydney/jason	Stantec
20-Oct-23	16:00	raven		1	North pile	flying	sydney/jason	Stantec
21-Oct-23	16:17	raven		1	mechanic shop	flying	sydney/jason	Stantec
22-Oct-23	16:30	raven		1	north pile	flying	sydney/jason	Stantec
23-Oct-23	16:45	ptarmigans		flock	road	resting	Ed	Nuna
24-Oct-23	11:30	raven		1	mechanic shop	flying	sydney/jason	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

26-Oct-23	15:45	fox		1	near comms tower	trotting	sydney/shaw n	Stantec
26-Oct-23	15:53	ptarmigans		1	side of north pile	resting	sydney/shaw n	Stantec
27-Oct-23	7:19	fox		1	Incinerator	trotting	Ed	Nuna
27-Oct-23	9:00	raven		1	camp	flying	sydney/shaw n	Stantec
27-Oct-23	9:14	ptarmigans		4	FAR road	perched in branch	sydney/shaw n	Stantec
28-Oct-23	15:45	ptarmigans		1	Logistics	standing in road	Mike T	Stantec
28-Oct-23	16:20	ptarmigans		3	Logistics	resting on berm	sydney/shaw n	Stantec
29-Oct-23	8:00	hares		1	incinerator	hopping towards	sydney/shaw n	Stantec
29-Oct-23	8:45	fox		1	incinerator	sniffing around	sydney/shaw n	Stantec
29-Oct-23	9:15	raven		1	North pile	flying	sydney/shaw n	Stantec
29-Oct-23	after noon	muskox		herd	WISP	grazing	Larry	Nuna
30-Oct-23	6:14	hares		1	mechanic shop	hopping	sydney/shaw n	Stantec
30-Oct-23	14:20	raven		1	airstrip	flying	sydney/shaw n	Stantec
30-Oct-23	14:37	muskox		12	AN pad road	resting	sydney/shaw n	Stantec
30-Oct-23	14:40	ptarmigans		16	AN pad road	flying	sydney/shaw n	Stantec
30-Oct-23	14:47	ptarmigans		3	airstrip	resting	sydney/shaw n	Stantec
30-Oct-23	14:51	raven		1	mechanic shop	flying	sydney/shaw n	Stantec
30-Oct-23	16:24	fox		1	WISP	trotting	Mike T	Stantec
31-Oct-23	15:00	ptarmigan		16	Waste Management	walking	Shawn	Stantec
31-Oct-23	15:21	raven		2	Parking lot	flying	Shawn	Stantec
1-Nov-23	13:02	raven		1	Parking lot	flying	Shawn	Stantec
1-Nov-23	13:13	squirrel		1	Airstrip	running	Shawn	Stantec
1-Nov-23	13:16	muskox		13	Emulsion Pad	grazing	Shawn	Stantec
1-Nov-23	14:15	ptarmigan		16	Waste Management	grazing	Shawn	Stantec
1-Nov-23	14:41	Arctic hare		2	Comm. Tower	hiding B.76	Shawn	Stantec
1-Nov-23	21:00	Wolverine		1	Parking lot	walking	Troy	Nuna
2-Nov-23	9:15	wolverine		1	LV shop	walking	Gord	Nuna
14-Nov-23	1:30	fox		1	EISP	running	Shawn	Stantec
15-Nov-23	9:34	raven		1	over camp	flying	Kia	Stantec
15-Nov-23	13:30	ptarmigan		a flock	haul road		Matthew	Nuna
17-Nov-23	12:45	ptarmigan		a flock	haul road	flying	Kia	Stantec
17-Nov-23	12:5	ptarmig		a	road to AN pad	flying	Kia	Stantec

## Snap Lake Mine 2023 Annual Wildlife Management and Monitoring Report

23	1	an		flock				
18-Nov-23	8:15	fox		1	North Pile	walking with rabbit in mouth	Ron	Nuna
18-Nov-23		fox		1	west cell dyke	trotting	Ron	Nuna
18-Nov-23	11:28	raven		1	generator stack tower	sitting	Kia	stantec
18-Nov-23	11:30	raven		1	over new camp	flying	Kia	stantec
18-Nov-23	11:35	ptarmigan		5	north ditch road	flying	Kia	stantec
18-Nov-23	11:50	ptarmigan		a flock	road to AN pad	flying	Kia	Stantec
19-Nov-23	9:38	fox		1		sitting under truck	Bill	Nuna
19-Nov-23	9:53	ptarmigan		3	road to AN pad	sitting in roadd	Ron/Kia	Nuna/Stantec
19-Nov-23	13:10	fox		1	LV shop	hiding by trucks		radio
20-Nov-23	13:20	ptarmigan		1	next to sewage plant	resting	Nick	Terrawater
21-Nov-23	9:20	raven		1	camp	flying	Kia	Stantec
21-Nov-23	11:56	ravens		2	parking lot	flying	Kia	Stantec
23-Nov-23	9:30	raven		2	cosway	flying	sydney	Stantec
24-Nov-23	11:50	fox		1	parking lot	trotting	ron	Nuna
24-Nov-23	13:26	ptarmigan		flock	runway	resting	ron	Nuna
26-Nov-23	13:30	fox		1	Camp	looking in bin	sydney	stantec
26-Nov-23	14:30	fox		1	on top of warehouse	on roof of warehouse	sydney	stantec
27-Nov-23	12:20	fox		1	incinerator	chasing ptarmigan	radio	nuna
27-Nov-23	14:00	caribou		2	snap lake	migtating across	radio	nuna
28-Nov-23	10:32	ptarmigan		1	mechanic shop	hiding	ron	nuna
29-Nov-23	10:30	ptarmigan		25	runway	resting	darren	nuna
29-Nov-23	15:35	raven		1	camp	flying	sydney	stantec
30-Nov-23	9:54	ptarmigan		3	haul road	perched in shrub	sydney	stantec
12-Dec-23	1400	ptarmigan		10+	air strip	walking/flying B.77	billy	
17-Dec-23	1330	ptarmigan		100+	air strip	walking/flying	billy	
20-Dec-23	various	fox, hare, ptarmigan		1, 1, n/a	various	walking	billy	
26-Dec-23	various	squirrel, ptarmigan		1, 10+	various	walking	billy	
29-Dec-23	1130	ptarmigan		3	comms tower	walking	billy	
30-Dec-23	1030	fox		1	LV shop	walking	billy	