



**Snap Lake Mine 2022 Annual
Wildlife Management and
Monitoring Report**

FINAL R0

March 28, 2023

Prepared for:
MetNuna Joint Venture

Prepared by:
Stantec Consulting Ltd. on behalf of
Metcor-Stantec Joint Venture

Project Number:
111473029

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March 28, 2023

Revisions History

Revision	Date	Description
R0	3/28/2023	Final for submission

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Abbreviations

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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



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. (De Beers) 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 conditionally approved on July 15, 2022.

1.1 Objectives

The 2022 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 2022 WWMR provides a summary of wildlife mitigation measures implemented at the Mine during Year 1 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, buildings and waste management areas. This report describes wildlife mitigation and monitoring that occurred at the Mine from January 1 to December 31, 2022 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



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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 2022	Report Section
Mitigation and Monitoring of Direct Effects				
Vegetation Loss	<ul style="list-style-type: none">• Vegetation Monitoring Program (VMP)• WMMP	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.	No	This will be reported in the 2023 Vegetation Monitoring Program Annual Report
Wildlife Incidents and Mortalities	<ul style="list-style-type: none">• WMMP	Wildlife sightings are monitored continually and reported annually. 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.	Yes	<ul style="list-style-type: none">• Section 2.4 - Incidents and Mortalities• Section 3.2 - Bird Nest Monitoring• Section 3.3 - Wildlife Sightings Log• Section 3.4 - Wildlife Incidents



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Monitoring	Corresponding Monitoring Plans or Programs	Monitoring Schedule	Completed in 2022	Report Section
Mitigation and Monitoring of Direct Effects				
Wildlife Protection	<ul style="list-style-type: none"> • Air Quality and Emissions • Monitoring Program (AQEMP) • VMP • WMMP 	<p>As per the WMMP, the mitigation measures were implemented (as necessary) during 2022 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 deposition occurring both on and off the Mine site.</p>	Yes	<ul style="list-style-type: none"> • Section 2.3 - Sensory Disturbance <p>Dustfall monitoring is reported in the 2022 Vegetation Monitoring Program Annual Report (Section 3.4).</p>
Caribou Protection Plan	<ul style="list-style-type: none"> • WMMP 	<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 2022.</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"> • Section 2.3.1 - Caribou Mitigation • Section 3.1 - Caribou Monitoring

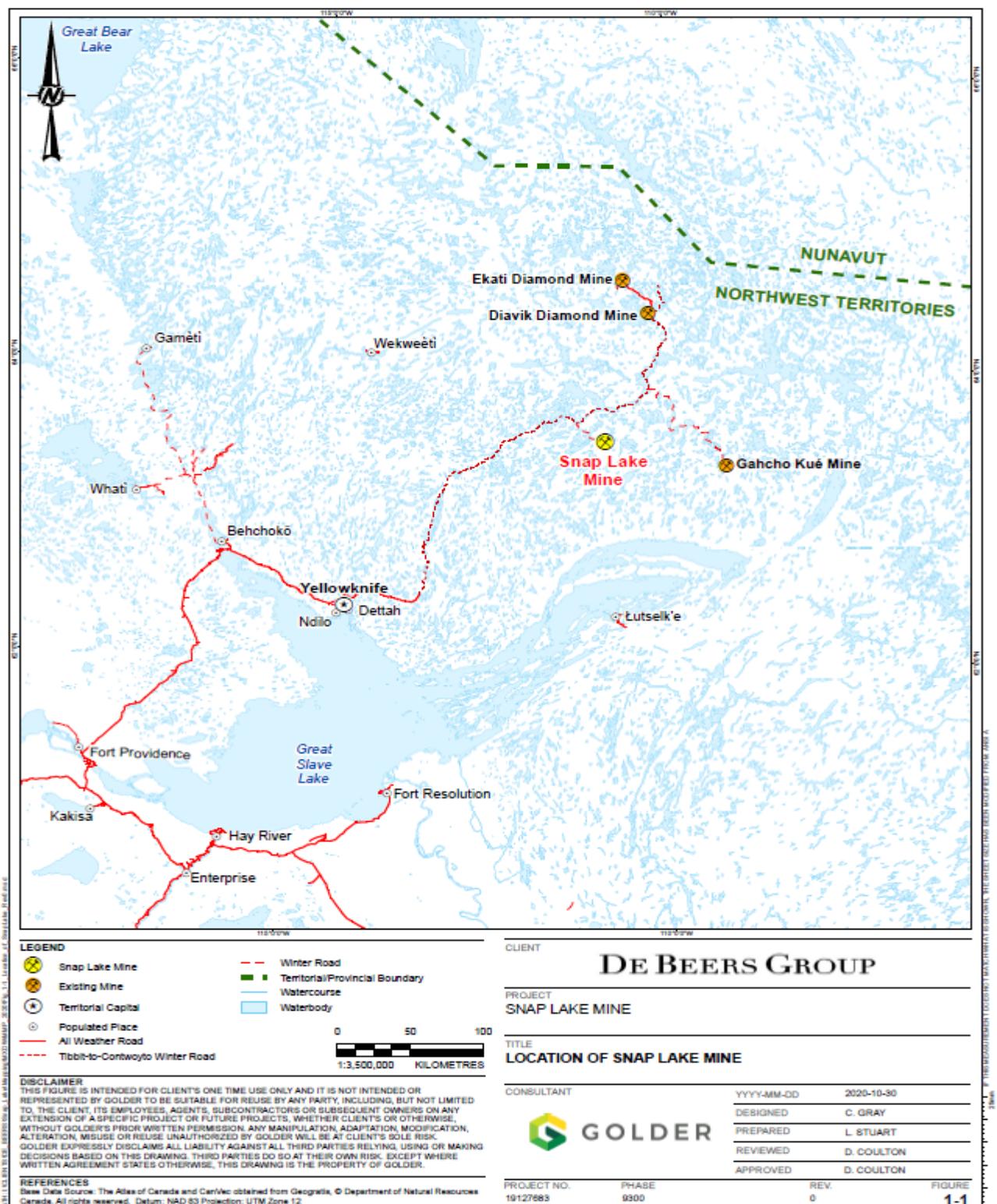


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Figure 1.1 Location of Snap Lake Mine



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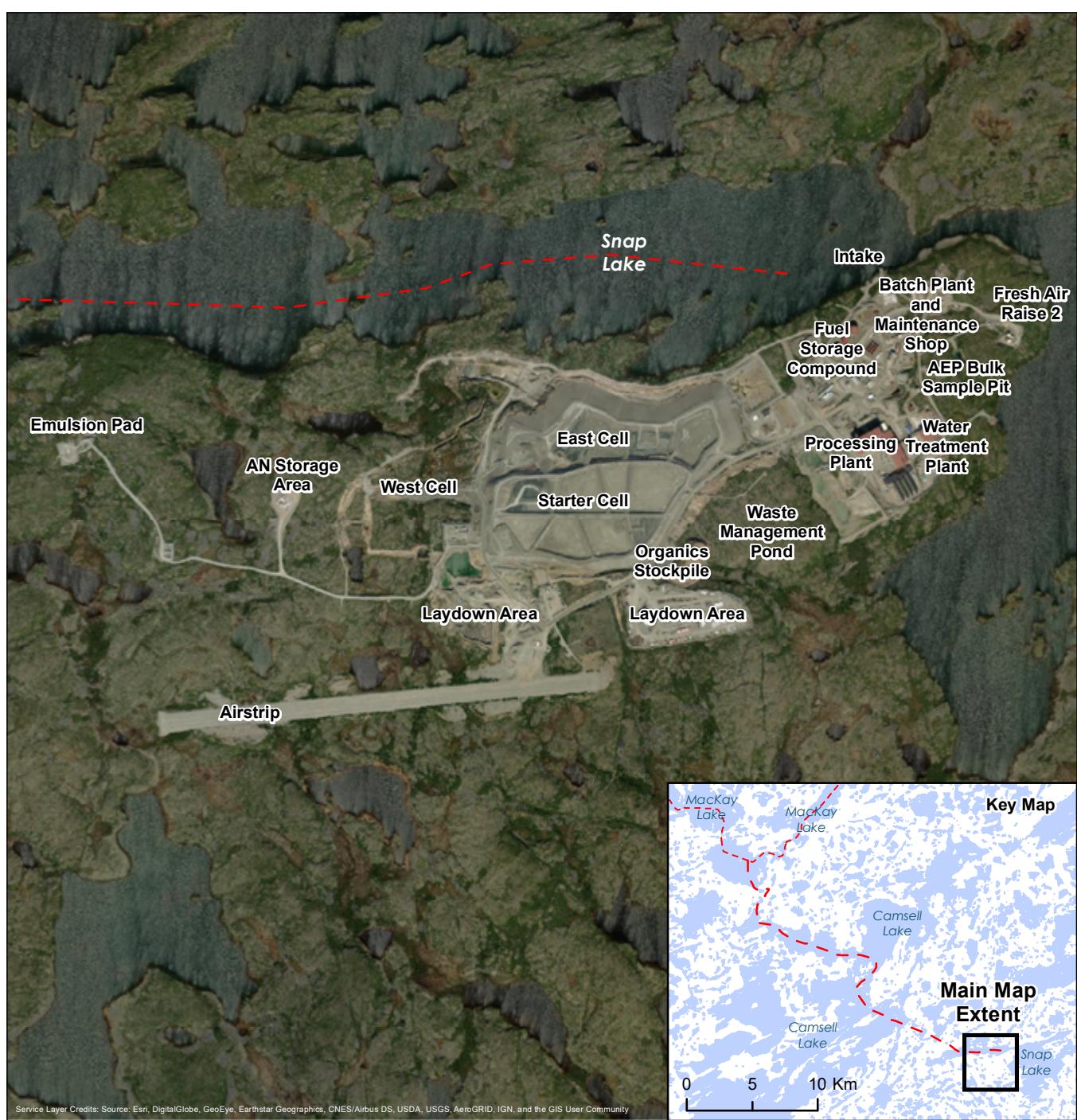
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1.2 Study Area

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





Legend

- - - Tibbit-to-Contwoyo Winter Road
- - - Winter Access Road

0 200 400 Metres
1:22,500 (at original document size of 8.5x11)



 **Stantec**

Project Location
Snap Lake, NT

111473029

Prepared by AC on 2023-03-06
Technical Review by EB on 2023-03-06

Client/Project
MetNuna JV
Snap Lake Mine Closure

Figure No.

1.2

Title

Snap Lake Mine Site Overview

Notes

1. Coordinate System: NAD 1983 UTM Zone 12N
2. Base features courtesy of CANVEC, GeoBase, Government of the Northwest Territories, Stantec.
3. Satellite Imagery source as indicated on image.

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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). Recent amendments to Schedule 1 of SARA include a change in conservation status for two wildlife species including the peregrine falcon (*Falco peregrinus anatum-tundrius*), which was delisted from special concern to not at risk and Harris's sparrow (*Zonotrichia querula*), which was added to Schedule 1 of SARA as special concern (GOC 2023).

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 May 1 to August 31 (ECCC 2018, 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 Ranking¹	Species at Risk (NWT) Act²	COSEWIC³	Species at Risk Act (SARA)⁴
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
Bank swallow (<i>Riparia riparia</i>)	At Risk	No Status	Threatened	Threatened



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2 Wildlife Mitigation

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Species	NWT General Status Ranking ¹	Species at Risk (NWT) Act ²	COSEWIC ³	Species at Risk Act (SARA) ⁴
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:

¹ 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.

² Government of the Northwest Territories. 2022. Species at Risk in the Northwest Territories, 2022. Environment and Natural Resources, Government of the Northwest Territories, Yellowknife, NT.

^{3,4} Government of Canada. 2023. 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 2022, and in accordance with the FCRP, some new vegetation clearing was associated with constructing the South Perimeter Ditch. 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 2023), 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).



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 2021/2022, occupancy was maintained in preparation for closure activities. Closure activities began on March 1, 2022, with site occupancy increasing from approximately 40 to approximately 110 persons in the summer. The mine site activity was reduced in mid-December with only about 10 staff members present. There were no periods of zero occupancy in 2022.

During Year 1 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, site infill and grading, waste management and camp operations.

Earthworks activities commenced on May 20 with the excavation of the West Influent Storage Pond to design elevations. Earthworks activities were also conducted in the North Pile, South Perimeter Ditch, North Perimeter Ditch, East Influent Storage Pond (ISP), Laydown 1, West Cell Divider Dyke and the Quarry. New clearing and blasting was required to construct the South Perimeter Ditch. All perimeter sumps 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 per design.

Crushing operations at Snap Lake began in June of 2022. Material was generated throughout 2022 based on the specifications for material needed for construction activities indicated by the project engineer of record. Transition, bedding, erosion protection and 150 mm rip rap material was produced and stockpiled at the crushing/screener location for use during construction activities.

An inventory of the various waste streams found on-site was compiled in 2022. 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 was extensive in 2022. In total, 42 structures, 3 x 12 million (M) litre (L) aboveground fuel storage tanks (ASTs) and six x 500,000 L ASTs were demolished for disposal. Structures remaining in December 2022 included maintenance and laydown buildings, 10 ML tank, 300,000 L AST tank farm and fuel systems, main camp and communications buildings. Modular power units, water and wastewater treatment plants and incinerators remained in place to support continued Mine closure activities in 2023.

As per the WMMP, the following mitigation measures were implemented (as necessary) during 2022 to reduce potential sensory disturbance to wildlife including:

- Dust suppression through regular road watering was applied when required, based on visual observations.



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- 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 2022:

- 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 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 2022.



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 2022 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 4 to August 17) (Section 3.2, Appendix A).
- Surveys for wildlife and raptor nests were conducted prior to commencing demolition activities.
- Unoccupied nests were reported to Environment and Climate Change Canada (ECCC) to determine the appropriate course of action prior to demolition activities (Section 3.2, Appendix A).
- 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.
- 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.



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2 Wildlife Mitigation

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- Food waste and other attractants were incinerated regularly to reduce holding time and odours.
- 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 2022 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), as applicable to the species observed on site. Inactive bird nests located on existing Mine infrastructure (i.e., buildings) were also removed with approval of ECCC, to reduce potential interactions outside of the breeding bird season.

2.4.1.1 Methods

Data collected regarding inactive nests were recorded in the appropriate EP-DOP 015 data collection forms and reported to ECCC to obtain approval to remove inactive nests prior to the breeding bird season. 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-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 and inactive nests were removed following consultation with the Canadian Wildlife Service (CWS). Unoccupied cavities in soil/granular material were destroyed in late 2022 through regrading of slopes as part of approved closure designs, and to discourage nest prospecting in 2023.



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2.4.1.2 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 2022. During 2022, 8 partly constructed common raven nests and 3 unknown grass nests found on mine infrastructure were removed prior to the breeding bird season. In addition, 57 cliff swallow nests were removed from mine infrastructure (e.g., buildings, overhangs) at 7 locations prior to the breeding bird season. A summary of bird nest removal activities and deterrent measures implemented during 2022 are provided in Appendix A, Table A-1).



3 Wildlife Monitoring

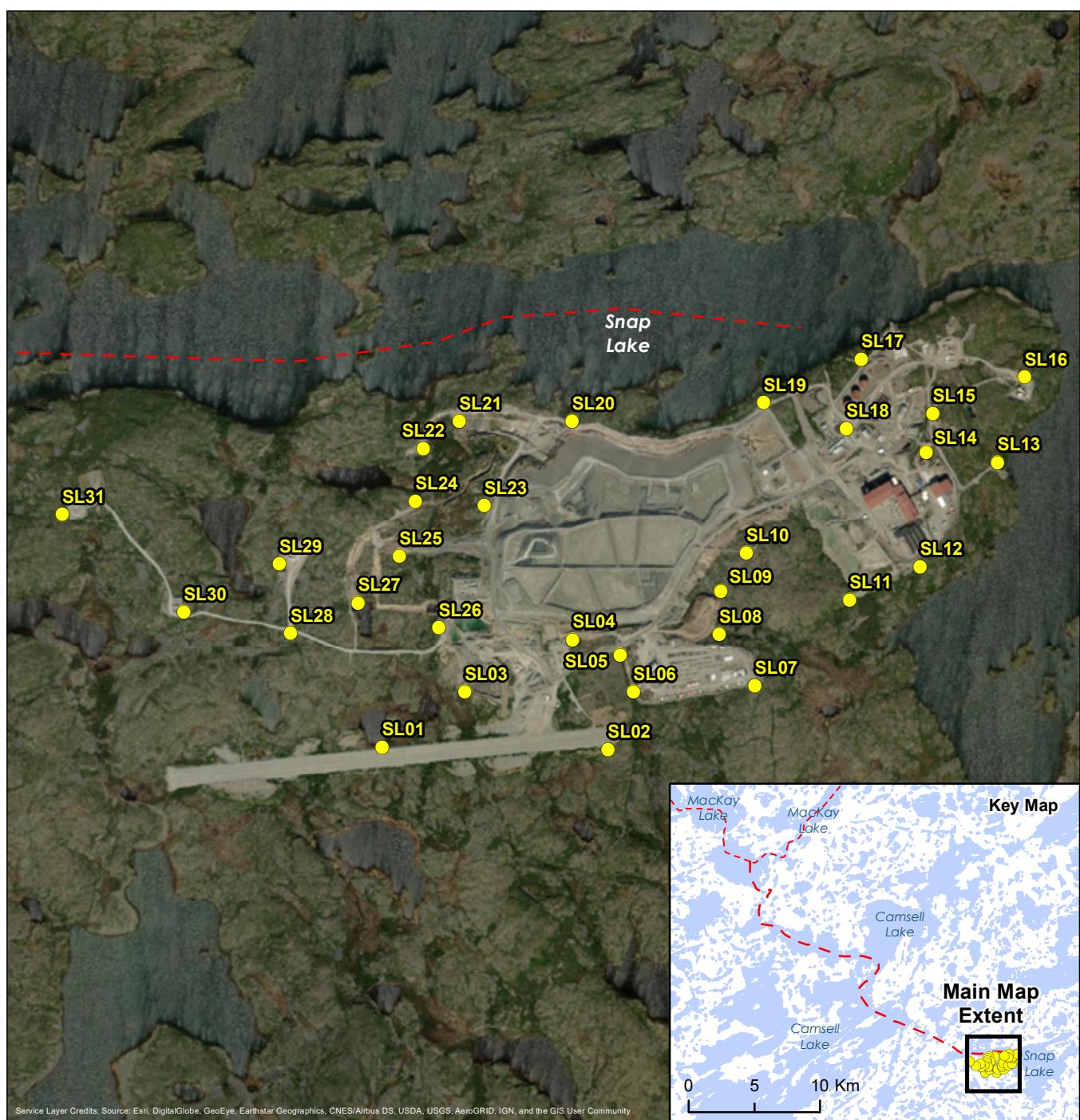
During 2022, wildlife monitoring included a record of incidental wildlife sightings, environmental inspections, waste inspections, nesting and nest deterrence monitoring, wildlife incident management as well as site selection to support future remote camera monitoring at the mine site.

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 2022 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).





Legend

- Remote Camera Monitoring Stations
- - - Tibbit-to-Contwoyo Winter Road
- - Winter Access Road

0 200 400 Metres
1:22,500 (at original document size of 8.5x11)



Project Location
Snap Lake, NT

111473029
Prepared by AC on 2023-03-06
Technical Review by EB on 2023-03-06

Client/Project
MetNuna JV
Snap Lake Mine Closure

Figure No.

3.1

Title

Remote Camera Monitoring
Stations

Notes

1. Coordinate System: NAD 1983 UTM Zone 12N
2. Base features courtesy of CANVEC, GeoBase, Government of the Northwest Territories, Stantec.
3. Satellite Imagery source as indicated on image.

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3.2 Bird Nest Monitoring

In 2022, active nests monitored throughout the breeding bird season included several cliff swallow colonies located on Mine buildings, and bank swallow cavities located on the North Pile and several other soil banks.

3.2.1 CLIFF SWALLOW

3.2.1.1 Methods

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, approximately bi-weekly during the breeding season, with frequency increased to every three days towards the end of the breeding season. The number of individuals (adults, young), behaviour (carrying food, flying in/out, guarding, etc.) were recorded.

3.2.1.2 Results

Three cliff swallow colonies were monitored on July 4 and August 9-14, 2022 to determine occupancy and number of active nests. Nests were removed once they had been vacated (no activity) for a period of three days. Total observation time varied from 30 minutes to 1.5 hours depending on the number of active nests within each colony.

3.2.2 BANK SWALLOW

In 2021, De Beers received approval to reshape slopes of the North Pile to discourage bank swallow nesting. All slopes of the North Pile were inspected in early April 2022 and confirmed to be less than 70 degree slope. Most slopes were closer to 50 degrees. In June, several new cavities were observed by Environment staff at the Mine at historical nesting locations within the North Pile. ECCC was notified of active bank swallow cavities on May 26. Monitoring of 13 locations of cavities continued from May 26 until July 25.

Stantec provided a memo to the CWS on July 28, 2022 outlining the approach to protecting and monitoring bank swallow nests at the Mine site, and the results of monitoring, which showed likely failure of all active nests monitored in 2022 (see Section 3.2.2).

3.2.2.1 Methods

Thirteen bank swallow nesting cavity sites were monitored at the Mine site during 2022 (Figure 3.2). Each site was visited regularly (e.g., once per week) 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 (e.g., once per day or two) to establish when nests were no longer active.



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Figure 3.2 Bank Swallow Nest Sites



3.2.2.2 Results

The results of the bank swallow monitoring indicated most of the nesting sites (cavities) were eventually depredated (46.1%) during the breeding season, 3 had collapsed (23.1%) due to slope erosion and 4 nesting sites (30.8%) were deemed inactive where bank swallows were observed but did not enter existing burrows (i.e., possible prospecting to evaluate potential nesting sites). A summary of bank swallow monitoring results is provided in Table 3.1.

Based on Stantec's observations between July 20 and July 25, 2022, it was concluded that there were no active bank swallow nests in the North Pile or Water Management Pond areas (see above) and there is minimal risk in proceeding with decommissioning activities in these areas. Prior to commencing works that will impact former nesting sites, final pre-activity nest sweeps were completed as outlined in the WMMP. It was confirmed that no active nests were present. Setbacks were removed and closure activities proceeded.



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3 Wildlife Monitoring

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Table 3.1 Bank Swallow Monitoring Results at the Snap Lake Mine during 2022 Closure

Colony ID	Coordinates ¹		Date	Start Time	End Time	Duration (hr)	No. Individuals ²	No. Burrows	Notes
	Easting	Northing							
BS01	505020	7052306	29-Jun	9:30	10:05	0:35	0	1	No activity
			3-Jul	9:10	9:40	0:30	1	1	Adult entered and exited
			6-Jul	15:30	15:40	0:10	0	1	No activity
			10-Jul	14:07	14:17	0:10	1	1	Did not interact with burrow
			11-Jul	10:38	10:45	0:07	2	1	entering burrow; active
			23-Jul	9:50	10:20	0:30	0	1	burrow dug out (depredated); feathers and nesting material pulled out; inactive
BS02	505157	7052704	29-Jun	11:05	12:00	0:55	0	14	No activity
			3-Jul	10:00	10:30	0:30	1	17	Adult entered and exited
			6-Jul	10:23	10:31	0:08	9	1	Adult entered and exited
			10-Jul	13:48	13:58	0:10	3	17	Birds did not interact with nest
			11-Jul	15:46	15:55	0:09	1	17	Adult entering burrow; active
			23-Jul	9:15	9:40	0:25	0	8	Several burrows were dug through to surface; 2 were dug out (depredated) - nest and feathers found pulled out of hole; one other burrow possibly depredated. Inactive
BS03	505659	7052306	29-Jun	12:15	12:45	0:30	0	1	No activity
			10-Jul	14:26	14:36	0:10	0	8	No activity
			11-Jul	10:54	11:04	0:10	1	8	Did not interact with burrow; inactive
			22-Jul	9:30	n/a	n/a	0	0	Could not locate any cavities; maybe had the wrong spot?
			24-Jul	14:00	n/a	n/a	0	0	Reconfirmed could not locate a cavity; bank erosion; inactive



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Colony ID	Coordinates ¹		Date	Start Time	End Time	Duration (hr)	No. Individuals ²	No. Burrows	Notes
	Easting	Northing							
BS04	505637	7052618	29-Jun	12:55	13:40	0:45	0	4	No activity
			3-Jul	13:15	13:55	0:40	1	3	Did not interact with burrow
			10-Jul	14:38	14:48	0:10	4	3	Did not interact with burrow
			11-Jul	11:05	11:15	0:10	6	3	Did not interact with burrow
			23-Jul	10:25	10:32	0:07	0	1	No activity; inactive
BS05	505790	7052653	29-Jun	15:05	15:25	0:20	0	1	No activity
			3-Jul	15:25	15:35	0:10	0	0	Suspected bank collapsed, no activity
			10-Jul	14:38	14:48	0:10	5	0	Did not interact with burrow; inactive
			22-Jul	10:45	10:55	0:10	0	5	Flying around; did not positively see activity at any one nest
			24-Jul	16:25	16:55	0:30	0	7	5 burrows dug out (depredated); 2 burrows not fully developed; inactive
BS06	505834	7052551	29-Jun	15:35	16:10	0:35	0	6	No activity
			3-Jul	11:35	12:05	0:30	3	6	Adults entering/exiting burrows
			6-Jul	15:15	15:20	0:05	1	6	One adult exiting burrow
			10-Jul	14:38	14:48	0:10	0	6	Entering burrow; active
			11-Jul	11:05	11:15	0:10	0	2	No activity
			22-Jul	-	-	-	1	5	Bird flying nearby
			23-Jul	15:45	16:15	0:30	0	5	All burrows are dug out (depredated); now INACTIVE
BS07	505900	7052644	29-Jun	14:35	15:00	0:25	0	4	No activity
			4-Jul	9:30	9:45	0:15	2	3	Two adults entered burrows
			20-Jul	15:10	15:40	0:30	0	3	No activity; depredated; now INACTIVE



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Colony ID	Coordinates ¹		Date	Start Time	End Time	Duration (hr)	No. Individuals ²	No. Burrows	Notes
	Easting	Northing							
BS08	505950	7052799	29-Jun	13:50	14:35	0:45	1	9	One adult entered the burrow
			3-Jul	15:40	16:10	0:30	8	12	Adults entered and exited burrows; active
			20-Jul	15:10	15:40	0:30	0	10 to 12	9 cavities seen dug out (depredated); 2 others collapsed; now INACTIVE
BS09	506244	7052706	29-Jun	16:15	16:55	0:40	2	8	One adult entered the burrow
			4-Jul	10:15	10:40	0:25	5	3	4 adults and one young; active
			10-Jul	16:35	16:45	0:10	0	3	No activity
			23-Jul	14:54	15:23	0:29	0	5	No activity; three nests dug out (depredated), others collapsed; feathers outside; now INACTIVE
BS10	506396	7052681	29-Jun	8:00	8:34	0:34	4	7	Adult entered and sat perched in the entrance through the monitoring period
			4-Jul	9:30	10:10	0:40	11	8	Several adults entering/exiting burrows; active
			25-Jul	7:25	7:54	0:29	0	7	One nest dug out (depredated) - lots of feathers; one hole has droppings at entrance; other holes dug through to surface; now INACTIVE
BS11	505616	7052705	3-Jul	14:05	14:35	0:30	0	2	No activity
			10-Jul	15:39	15:49	0:10	0	2	No activity
			11-Jul	11:21	11:31	0:10	0	2	No activity
			22-Jul	9:15	9:20	0:05	0	1	No activity; assumed prospecting location; INACTIVE



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Colony ID	Coordinates ¹		Date	Start Time	End Time	Duration (hr)	No. Individuals ²	No. Burrows	Notes
	Easting	Northing							
BS12	505616	7052705	10-Jul	15:56	16:06	0:10	0	6	No Activity, possible birds observed at BS02 were attempting to fly over bank to BS12 and winds were too high/strong
			11-Jul	11:43	11:48	0:05	3	6	Only one swallow entered burrow
			22-Jul	9:15	9:20	0:05	0	0	No viable burrows at this location; assumed prospecting location; INACTIVE
BS13	505447	7052639	3-Jul	14:50	15:20	0:30	0	6	No activity
			22-Jul	9:15	9:26	0:11	0	1	No activity; assumed prospecting location; INACTIVE

Notes:

¹ Zone 12V; Datum NAD83

² Total number of individuals observed, including those only flying overhead and not just those interacting with a burrow.



3.3 Wildlife Sightings Log

Environment staff, mine employees and contractors recorded incidental wildlife observations at the Mine site from March 1, 2022 to December 31, 2022 by (see Appendix B). A total of 49 wildlife species/groups were observed in 2022, including 13 mammals and 36 bird species (Table 3.2). 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, common raven (*Corvus corax*) and arctic hare (*Lepus arcticus*) were the most frequently observed wildlife species followed by passerine birds and gulls (Table 3.2). Barren-ground caribou were observed on 174 occasions. Caribou were observed throughout the Mine but were most frequently observed near the airstrip, meteorological station (Met Station), Waste Management Pond and Snap Lake. Group size varied from 1 to 87 individuals with larger group sizes observed on Snap Lake. Overall, the wildlife species incidentally observed at the Mine site during 2022 were similar to the wildlife species/groups observed during 2019 (De Beers 2021b).

Table 3.2 Summary of Wildlife Sightings – 2022 Closure

	Species	Number of Occasions	Total Number 1
Birds			
Waterfowl	Greater White-fronted Goose	16	78
	Snow Goose	1	0
	Unknown Goose	18	86
	Green-winged Teal	3	3
	Northern Pintail	18	94
	Greater Scaup	1	2
	Scaup spp.	4	5
	Long-tailed Duck	30	96
	Scoter spp.	1	3
	Common Merganser	6	9
Upland Gamebirds	Unknown Duck	47	185
	Ptarmigan	41	159
Waterbirds	Common Loon	1	1
	Unknown Loon	6	7
	Red-throated Loon	1	2
Shorebirds	Sandpiper	21	63
	Baird's Sandpiper	4	9
	Semipalmated Plover	10	15
	Plover spp.	2	4
Gulls	Gull spp.	53	85



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	Species	Number of Occasions	Total Number ¹
Raptors	American Kestrel	4	5
	Bald Eagle	7	8
	Unknown Eagle	1	1
	Unknown Falcon	1	1
	Gyrfalcon	1	1
	Northern Harrier	3	3
	Unknown Hawk	2	2
	Unknown Raptor	8	9
Owls	Snowy Owl	1	1
Landbirds	Common Raven	149	224
	Bank Swallow	30	58
	Cliff Swallow	27	103
	Barn Swallow	2	6
	Unknown Swallow	32	169
	American Robin	26	27
	American Pipit	14	18
	Yellow Warbler	19	26
	American Tree Sparrow	4	13
	Clay-colored Sparrow	2	4
	Harris's Sparrow	5	5
	White-crowned Sparrow	7	16
	Unknown Sparrow	67	229
	Unknown bird	9	17
	Lapland Longspur	1	1
	Snow Bunting	39	119
	Common Redpoll	2	5
Mammals			
Ungulates	Caribou	174	2514
	Moose	3	3
	Muskox	9	60
Large and medium-size Mammals	Grizzly Bear	2	2
	Wolf	5	6
	Wolverine	2	2
	Red Fox	30	30
Hares	Snowshoe Hare	8	12
	Arctic Hare	92	105
	Hare	6	8



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	Species	Number of Occasions	Total Number ¹
Other Mammals	Muskrat	1	1
	Squirrel	22	25
	Unknown rodent	1	1
	Grand Total	1102	4746

Note:

¹ The same individuals might have been observed more than once on the same day or subsequent days (i.e., total number do not represent independent observations or actual total number of individuals).

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.

Seven wildlife incidents were recorded in 2022, including three incidents at generators where four American kestrels were found dead (Table 3.3). 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 2022 Closure

Date	Wildlife Species	Location	Incident	Actions Taken
March 3, 2022	Caribou	Airstrip	Approximately 10 caribou were present on the airstrip prior to flight arrival.	Caribou were encouraged to move away from the airstrip prior to flight arrival by slowly moving towards them.
March 4, 2022	American kestrel (<i>Falco sparverius</i>)	Gen 6	Two dead birds (American kestrel), as identified by Stantec's Senior wildlife biologist were found during generator decommissioning (Gen 6 exhaust where it connects to the engine) by Lenmark personnel.	Carcass was documented and disposed of in incinerator.
March 8, 2022	Ptarmigan (<i>Lagopus spp.</i>)	Airstrip	A low-flying ptarmigan contacted the propeller of an incoming ATR aircraft as it was landing.	Aircraft was inspected; carcass was documented and disposed of in incinerator.
March 11, 2022	American kestrel	Gen 2	One dead bird found during generator decommissioning (Gen 2) in the exhaust where it connects to the engine by Lenmark personnel	Carcass was documented and disposed of in incinerator.



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Date	Wildlife Species	Location	Incident	Actions Taken
March 12, 2022	American kestrel	Gen 5	One dead bird found during generator decommissioning (Gen 5) in the exhaust where it connects to the engine by Lenmark personnel	Carcass was documented and disposed of in incinerator.
March 16, 2022	Black Scoter (<i>Melanitta americana</i>)	Building 29-STP 1	One dead black scoter was found during an inspection of site buildings for contamination potential by Stantec personnel. The bird had been trapped in the former sewage treatment plant (Building 29 – STP 1) for some time given its desiccated condition	Carcass was documented and disposed of in incinerator.
March 29, 2022	Red fox Common raven	Waste Management Area	One fox and one raven were observed on top of a waste grease drum at the waste management area. The seal to the waste grease drum was possibly released due to over filling the drum and causing expanding ice to push the drum open.	The drum was isolated to prevent further incident.



4 Adaptive Management

Wildlife (birds and mammals) were observed at the Mine in 2022 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. The bird mortalities (e.g., American kestrels) identified during decommissioning of three generators (Gen 2,5 and 6) occurred prior to closure activities and prior to 2022; and therefore, no further mitigation is recommended to reduce potential bird mortalities associated with generators as all mine generators and exhaust hoods have been decommissioned and removed.

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 2022 have indicated that mitigations are working as intended and no changes are recommended at this time.



5 References

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Appendix A Bird Nest Removal Log

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Appendix A Bird Nest Removal Log



Table A.1 Summary of Nest Removal and Mitigation at the Snap Lake Mine during 2022 Closure

Date	Species	Location	Comment	Photo
23-Mar-22	Raven	TK-002	[March 23, 2022] Nest construction on landing of stairs. Removal required. [March 25, 2022] Nest removed. [March 26, 2022] Ravens observed carrying sticks to same location for nest reconstruction on landing of stairs. [April 1, 2022] Nest removed. [April 28, 2022] Gathered sticks observed. [May 1, 2022] Nests removed.	
23-Mar-22	Raven	TK-003	[March 23, 2022] Nest construction on top landing of stairs. Removal required. [March 28, 2022] Nest removed. [March 31] Ravens observed carrying sticks for nest construction. Removal required. [April 1, 2022] Nest removed.	
06-Apr-22	Raven	EC00030053	[April 6, 2022] Nest construction on first landing. Removal required. [April 27, 2022] Nest was previously removed. Confirmatory photos taken	

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Appendix A Bird Nest Removal Log

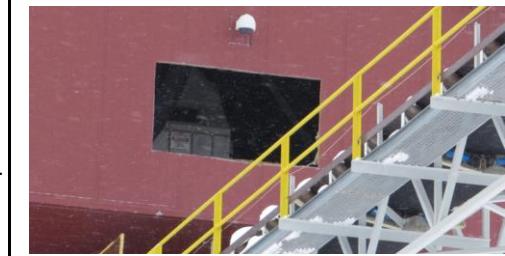
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23-Mar-22	Cliff Swallow	Carpenter Shop	<p>[March 23, 2022] Nest at southwest corner of overhang 2-3.</p> <p>[April 8, 2022] Nests removed.</p>	
23-Mar-22	Cliff Swallow	Overhang at old mine ops.	<p>[March 23, 2022] No nest observed. Large amount of watery scat observed on the side of the building at southeast corner of ERT. Owl pellets found during C&M.</p>	
10-Apr-22	Cliff Swallow		<p>[April 10, 2022] Five nests observed above the ERT trailer.</p> <p>[April 25, 2022] Nuna confirmed that they intend to leave these nests in place in 2022.</p> <p>[August 12-14, 2022] Three days of monitoring concluded the nests were inactive.</p>	
23-Mar-22	Cliff Swallow	Conveyor	<p>[March 23, 2022] Nest in opening on the bottom of the conveyor. One visible but there could be more. Removal required.</p> <p>[April 27, 2022] Nest was previously removed. Confirmatory photos taken</p>	

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23-Mar-22	Cliff Swallow	Conveyor	<p>[March 23, 2022] Approximately 9 nests in ridges of conveyor. Removal required.</p> <p>[April 8] Nest removed.</p>	
23-Mar-22	Cliff Swallow	Security Complex 71	<p>[March 23, 2022] Nest on north face of north east corner of building.</p> <p>[April 8, 2022] Nest removed.</p>	
23-Mar-22	Cliff Swallow	Security Complex 71	<p>[March 23, 2022] Nest on north face of north east corner of building.</p> <p>[April 8] Nest removed.</p>	
23-Mar-22	Raven	Conveyor	<p>[March 23, 2022] Nest reporting by site personnel in west entrance of transfer town. Confirmed by Ed.</p> <p>[March 26, 2022] Site services and Stantec unable to locate nest. Need location confirmation.</p> <p>[April 10, 2022] Ravens observed entering building by MetNuna.</p>	

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23-Mar-22				
23-Mar-22	Cliff Swallow	Process plant drive through/ over hang	[March 23, 2022] Approximately 40 nests at process plant loading drive through. [April 8, 2022] Nests removed	
23-Mar-22				
25-Mar-22	Cliff Swallow	Nuna Building	[March 25, 2022] Two nests on the ceiling inside the Nuna building. Birds come in through broken sky light. [April 8, 2022] Nest Removed.	

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25-Mar-22	Cliff Swallow	Nuna Building (cont.)	<p>[March 25, 2022] Two nests on the ceiling inside the Nuna building. Birds come in through broken sky light. [April 8, 2022] Nest Removed.</p>	
29-Mar-22				
29-Mar-22	n/a	Igloo at Laydown 1	<p>[March 29, 2022] Three nests near bay door entrance inside Igloo. Unsure of species. [April 11, 2022] Nests removed.</p>	 
29-Mar-22				

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04-Mar-22	n/a	Cold Storage 1	[April 4, 2022] 1 Nest found in the back end of Cold Storage 1. Unsure of species. [April 9, 2022] Removal reported, confirmation required. [April 27, 2022] Removal confirmed	
14-Apr-22	Cliff Swallow	Overhang at old mine ops.	[April 14, 2022] ~ 3 Nests under the overhang at the old mine ops. Previously documented above. [May 6] as per MNJV, no demo activities are planned at this location this year. To provide some habitat, these nests will not be disturbed in 2022. [June 1] Stantec observed no Swallows in this area or nesting here. [August 12-14, 2022] Three days of monitoring concluded the nests were inactive.	
14-Apr-22	Cliff Swallow	Overhang at old mine ops.	[April 14, 2022] 4 Nests under the overhang at the old mine ops. Previously documented above. [May 6] as per MNJV, no demo activities are planned at this location this year. To provide some habitat, these nests will not be disturbed in 2022. [June 1] Stantec observed no Swallows in this area or nesting. [August 12-14, 2022] Three days of monitoring concluded the nests were inactive.	
14-Apr-22	n/a	Utilities Building	No nest observed. Large amount of watery scat observed on the side of the building.	
01-May-22	Cliff Swallow	Environment Shop	Three cliff swallow nests were removed.	No Photos
01-May-22	Cliff Swallow	Sanvik Building	One cliff swallow nest was removed.	No Photos

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Appendix A Bird Nest Removal Log

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02-May-22	Unknown	Utilities Building	[May 2, 2022] Vent over door 107 [May 6, 2022] Removed, net installed and confirmed	
02-May-22	Unknown	Building 52 (cold storage 1)	[May 2, 2022] Rafters on far wall	
06-May-22	Raven	Process building	[May 6, 2022] West side in vent above man door 104(?)	

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Appendix B Wildlife Sightings Log

March 28, 2023

Appendix B Wildlife Sightings Log



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Appendix B Wildlife Sightings Log

March 28, 2023

Table B.1 Wildlife Sightings Log

Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
1-Mar-22	17:00	Caribou	35	AN Building	Resting/walking	Mark/Becky	Stantec
1-Mar-22	17:15	Caribou	4	Emulsion Building	Resting/walking	Mark/Becky	Stantec
2-Mar-22	17:30	Caribou	15	AN & Land farm	Resting/walking	Mark/Becky	Stantec
2-Mar-22	17:30	Caribou	10	Emulsion Building	Resting/walking	Mark/Becky	Stantec
2-Mar-22	17:30	Wolf	2	Ice Road	Running/walking	Mark/Becky	Stantec
3-Mar-22	7:30	Caribou	10	Airstrip	Grazing	Mark/Becky	Stantec
3-Mar-22	8:00	Caribou	10	Airstrip	Grazing	Mark/Becky	Stantec
3-Mar-22	11:05	Caribou	26	Land farm	Resting	Mark/Becky	Stantec
3-Mar-22	11:10	Caribou	13	NW of airstrip	Resting	Mark/Becky	Stantec
3-Mar-22	12:10	Caribou	27	Airstrip	Running/walking	Mark/Becky	Stantec
4-Mar-22	10:45	Caribou	1	Emulsion Building	Walking/Running	Mark/Becky	Stantec
4-Mar-22	10:50	Snowy Owl	1	AN Building	Flying	Mark/Becky	Stantec
4-Mar-22	11:45	American Kestrel	2	Powerhouse	Dead (not recent)	Jason	Lenmark
4-Mar-22	8:00	Caribou	8	Portage 4	N/A	Mike O.	Iceroad crew
4-Mar-22	10:30	Caribou	NR	Ice Road	N/A	Mike H.	Iceroad crew
4-Mar-22	11:30	Caribou	-	Portage 13	N/A	Jay	Iceroad crew
5-Mar-22	13:00	Caribou	21	NW at airstrip	Resting	Mark/Becky	Stantec
6-Mar-22	9:30	Caribou	25	Laydown 1	N/A	S. Funk	MNVJ
6-Mar-22	13:40	Caribou	20	South side of WMP	Grazing	Kyle	DeBeers
6-Mar-22	15:20	Caribou	19	South of Land farm	Grazing	Mark/Becky	Stantec
6-Mar-22	15:50	Caribou	2	North of Land farm	Resting	Mark/Becky	Stantec
6-Mar-22	16:10	Caribou	19	Snap Lake east of camp	Walking	Mark/Becky	Stantec
6-Mar-22	16:00-17:00	Caribou	10	B/t portage 12+13	N/A	Scott	MNVJ



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Appendix B Wildlife Sightings Log

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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
6-Mar-22	16:00-17:00	Caribou	15	Portage 15	N/A	Scott	MNJV
6-Mar-22	16:00-17:00	Caribou	12	Portage 5	N/A	Scott	MNJV
7-Mar-22	16:35	Caribou	18	Met Station Hill	Resting	Mark/Becky	Stantec
7-Mar-22	17:00	Caribou	1	Window from the kitchen to the hill	N/A	David McPhail	Gisborn
8-Mar-22	13:00	Ptarmigan	1	Airstrip	Hit by plane (dead)	Roxanne	Stantec
8-Mar-22	14:00	Caribou	8	The Lake	N/A	Ed	MNJV
8-Mar-22	14:00	Caribou	1	Winter Road	N/A	Ed	MNJV
8-Mar-22	17:00	Caribou	2	Window from the kitchen to the hill	N/A	David McPhail	Gisborn
9-Mar-22	8:15	Caribou	38	South of Water Management Pond	Walking/Resting/Gazing	Mark/Roxanne	Stantec
9-Mar-22	9:45	Common Raven	2	Outside of incinerator	Pecking at ground	Mark/Roxanne	Stantec
9-Mar-22	17:00	Caribou	33	East of Water Management Pond	Grazing	Mark/Roxanne	Stantec
10-Mar-22	7:00	Caribou	21	Snap Lake	N/A	N/A	N/A
10-Mar-22	12:15	Caribou	35	Met Station Hill	Grazing	Mark/Roxanne	Stantec
10-Mar-22	13:20	Caribou	5	Sump 5	Walking Grazing	Mark/Roxanne	Stantec
10-Mar-22	13:30	Wolf	1	Snap Lake near camp	Running	N/A	N/A
11-Mar-22	10:10	Caribou	6	Water Management Pond	Standing/Grazing	Mark/Roxanne	Stantec
11-Mar-22	10:40	Caribou	22	Water Management Pond/Station Hill	Grazing	Mark/Roxanne	Stantec
11-Mar-22	10:50	Caribou	15	East Side of AN Building	Resting/Grazing	Mark/Roxanne	Stantec
11-Mar-22	10:55	Caribou	9	West Side of AN Building	Resting/Grazing	Mark/Roxanne	Stantec
11-Mar-22	18:30	American Kestrel	1	In a generator being disabled	Dead (Not Recent)	N/A	N/A
12-Mar-22	11:20	Caribou	12	On Snap Lake, north of Sump 5	Resting	Mark/Roxanne	Stantec



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Appendix B Wildlife Sightings Log

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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
12-Mar-22	11:25	Caribou	50	Between land farm/AN Building	Resting/Grazing/Mating	Mark/Roxanne	Stantec
12-Mar-22	12:20	Common Raven	1	Near Sump 4	Flying	Mark/Roxanne	Stantec
12-Mar-22	15:25	American Kestrel	1	In a generator	Dead (Not Recent)	N/A	N/A
12-Mar-22	15:40	Common Raven	2	Over Camp	Flying	Mark/Roxanne	Stantec
13-Mar-22	11:45	Caribou	34	Between land farm/AN Building	Resting/Grazing	Mark/Roxanne	Stantec
13-Mar-22	11:48	Caribou	23	East Side of AN Building	Resting/Running	Mark/Roxanne	Stantec
13-Mar-22	11:55	Common Raven	1	Emulsion building	Flying	Mark/Roxanne	Stantec
14-Mar-22	9:30	Caribou	9	WMP	Walking	Mark/Roxanne	Stantec
14-Mar-22	9:30	Caribou	8	Airstrip	Walking	Mark/Roxanne	Stantec
14-Mar-22	9:30	Caribou	5	N of land farm	Walking	Mark/Roxanne	Stantec
14-Mar-22	9:30	Caribou	16	Between land farm/AN Building	Walking/Standing	Mark/Roxanne	Stantec
14-Mar-22	9:30	Caribou	23	Between Airstrip/Emulsion Road	Walking/Grazing	Mark/Roxanne	Stantec
14-Mar-22	9:30	Caribou	6	East Side of AN Building	Walking/Grazing	Mark/Roxanne	Stantec
15-Mar-22	15:00	Caribou	18	North side of Airstrip	Standing/Grazing	Holly/Roxanne	Stantec
15-Mar-22	15:00	Caribou	4	East Side of AN Building	Standing/Grazing	Holly/Roxanne	Stantec
15-Mar-22	15:16	Common Raven	1	Over Process Building	Flying	Holly/Roxanne	Stantec
15-Mar-22	15:20	Caribou	7	North of AN Building	Walking/Resting	Mark/Holly/Roxanne	Stantec
15-Mar-22	15:45	Caribou	8	On Snap Lake	Resting	Mark/Holly/Roxanne	Stantec
15-Mar-22	16:00	Caribou	13	Hill by WMP	Standing/Grazing	Mark/Holly/Roxanne	Stantec
16-Mar-22	11:50	Common Raven	2	Between 12m tanks and Process Building	Flying	Holly/Roxanne	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
16-Mar-22	12:00	Caribou	17	North of Process Building	Standing/Grazing	Holly/Roxanne	Stantec
16-Mar-22	15:14	Caribou	9	South of AN Building	Standing/Grazing	Holly/Roxanne	Stantec
17-Mar-22	12:00	Squirrel	1	Behind Nuna Building	Being Cute	Roxanne	Stantec
17-Mar-22	19:15	Caribou	2	WMP	Standing/Grazing	Ron	MNJV
18-Mar-22	11:00	Common Raven	1	By Kitchen	Flying	Holly/Roxanne	Stantec
18-Mar-22	14:00	Caribou	-	Airstrip	Running from the plane	Ed	MNJV
19-Mar-22	19:00	Caribou	15	WMP	Standing/Grazing	Holly/Roxanne	Stantec
19-Mar-22	12:00	Common Raven	1	By Kitchen	Flying	Holly/Roxanne	Stantec
20-Mar-22	13:45	Common Raven	1	LV Shop	Flying	Holly/Roxanne	Stantec
20-Mar-22	15:05	Caribou	22	WMP	Grazing	Holly/Roxanne	Stantec
20-Mar-22	14:30	Caribou	6	On Snap Lake	Sitting	Holly/Roxanne	Stantec
22-Mar-22	11:00	Caribou	7	East end of Airstrip	Resting	Chris	MNJV
22-Mar-22	14:00	Caribou	22	Near Comms Building	Grazing	Scott	MNJV
22-Mar-22	14:00	Ptarmigan	-	Near Comms Building	N/A	Scott	MNJV
24-Mar-22	7:54	Caribou	47	WMP	Grazing	Felix	DeBeers
24-Mar-22	9:00	Caribou	26	PM002	Grazing	Becky/Holly	Stantec
24-Mar-22	9:20	Common Raven	1	PS2	Flying	Becky/Holly	Stantec
25-Mar-22	-	Caribou	31	WMP	Grazing	Becky/Holly	Stantec
25-Mar-22	-	Common Raven	1	Process Building	Flying	Becky/Holly	Stantec
25-Mar-22	-	Arctic Hare	1	Power plant	Resting	N/A	Lenmark
26-Mar-22	13:20	Caribou	20	Laydown 1	Grazing	Becky/Holly	Stantec
26-Mar-22	13:20	Common Raven	1	Laydown 1	Flying	Becky/Holly	Stantec
26-Mar-22	15:00	Caribou	11	Ice Road	Walking	Becky/Holly	Stantec
26-Mar-22	15:30	Common Raven	1	TK002	Flying	Becky/Holly	Stantec
26-Mar-22	-	Ptarmigan	15	Met Station	Running	Becky/Holly	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
26-Mar-22	-	Common Raven	2	Transfer Tower	Resting	Becky/Holly	Stantec
27-Mar-22	11:30	Common Raven	2	Main Building	Flying	Becky/Holly	Stantec
27-Mar-22	11:40	Caribou	30	Met Station	Resting	Becky/Holly	Stantec
27-Mar-22	11:40	Ptarmigan	10	Met Station	Running	Becky/Holly	Stantec
27-Mar-22	11:55	Common Raven	2	Process Building	Resting	Becky/Holly	Stantec
27-Mar-22	13:15	Wolf	1	QM Laydown	Walking	N/A	QM
27-Mar-22	13:35	Common Raven	1	Camp	Flying	Becky/Holly	Stantec
27-Mar-22	14:40	Caribou	26	West arm	Walking	Becky/Holly	Stantec
27-Mar-22	15:30	Caribou	7	FAR	Resting	Becky/Holly	Stantec
28-Mar-22	15:20	Caribou	15	Snap Lake Near PS3	Resting	Becky/Holly	Stantec
28-Mar-22	15:20	Caribou	24	Snap Lake Near PS3	Resting	Becky/Holly	Stantec
28-Mar-22	16:00	Caribou	7	WMP	Resting	Becky/Holly	Stantec
29-Mar-22	9:15	Caribou	3	Ice Road	Walking	Becky/Holly	Stantec
29-Mar-22	9:30	Common Raven	2	Transfer Tower	Flying	Becky/Holly	Stantec
29-Mar-22	12:25	Caribou	10	WMP	Grazing	Becky/Holly	Stantec
29-Mar-22	15:05	Caribou	21	North Pile	Resting	Becky/Holly	Stantec
29-Mar-22	15:05	Ptarmigan	7	North Pile	Running	Becky/Holly	Stantec
29-Mar-22	15:30	Red Fox	1	Waste Management	Running Walking	Becky Shawn	Stantec
30-Mar-22	13:20	Caribou	31	QM Laydown	Grazing	Becky Shawn	Stantec
30-Mar-22	13:45	Caribou	13	North Pile	Grazing	Becky Shawn	Stantec
30-Mar-22	14:00	Common Raven	2	Waste Management	Eathing Grease/Flying	Becky Shawn	Stantec
30-Mar-22	14:15	Caribou	13	WMP	Grazing	Becky Shawn	Stantec
30-Mar-22	14:25	Ptarmigan	3	Snap Lake Near PS3	Running	Becky Shawn	Stantec
30-Mar-22	14:25	Caribou	9	Snap Lake Near PS3	Grazing	Becky Shawn	Stantec
30-Mar-22	14:25	Caribou	17	Snap Lake Near PS4	Grazing	Becky Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
31-Mar-22	10:40	Caribou	13	Gazebo	Resting	Becky Shawn	Stantec
31-Mar-22	10:50	Caribou	15	Airstrip	Resting	Becky Shawn	Stantec
31-Mar-22	10:55	Caribou	16	Waste Management	Walking	Becky Shawn	Stantec
31-Mar-22	15:45	Common Raven	2	TK002	Building Nests	Becky Shawn	Stantec
1-Apr-22	14:15	Caribou	14	Met Station Hill	Grazing	Becky Shawn	Stantec
1-Apr-22	12:00	Snow Bunting	4	Nuna Shop	Flying	Becky Shawn	Stantec
1-Apr-22	14:00	Snow Bunting	3	Airstrip	Flying	Becky Shawn	Stantec
1-Apr-22	15:05	Caribou	9	QM Laydown	Grazing	Becky Shawn	Stantec
1-Apr-22	15:15	Caribou	6	Ice Road	Walking	Becky Shawn	Stantec
1-Apr-22	16:00	Common Raven	1	TK002	Flying	Bill	MNJV
2-Apr-22	10:00	Ptarmigan	-	Main Building	Flying	Scott	MNJV
2-Apr-22	15:00	Ptarmigan	-	Main Pump Station	N/A	Scott	MNJV
2-Apr-22	15:10	Caribou	16	QM Laydown	Grazing	Becky Shawn	Stantec
2-Apr-22	15:15	Caribou	4	Met Station Hill	Grazing	Becky Shawn	Stantec
2-Apr-22	15:35	Caribou	5	Ice Road	Resting	Becky Shawn	Stantec
2-Apr-22	16:05	Common Raven	1	Main Building	Flying	Becky Shawn	Stantec
3-Apr-22	14:15	Caribou	20	QM Laydown	Grazing	Becky Shawn	Stantec
3-Apr-22	14:45	Ptarmigan	3	PS1	Running	Becky Shawn	Stantec
3-Apr-22	14:55	Common Raven	2	12 million Tanks	Flying	Becky Shawn	Stantec
3-Apr-22	N/A	Wolverine	1	Dam 1	N/A	Vida	DeBeers
4-Apr-22	14:25	Caribou	5	Met Station Hill	Grazing	Becky Shawn	Stantec
4-Apr-22	14:25	Ptarmigan	2	Met Station Hill	Grazing	Becky Shawn	Stantec
4-Apr-22	14:40	Common Raven	2	Laydown 1	Resting	Becky Shawn	Stantec
4-Apr-22	16:30	Caribou	5	North of Hazardous Waste Area	Grazing	Scott	MNJV
5-Apr-22	7:20	Caribou	12	Met Station Hill	Grazing	Becky Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
5-Apr-22	7:47	Caribou	9	WMP	Grazing	Felix	Debeers
5-Apr-22	10:35	Falcon	1	Parking lot	Hunting	Ron	MNJV
6-Apr-22	9:30	Caribou	3	Crusher	Grazing	Scott	MNJV
6-Apr-22	9:30	Caribou	6	Landfill	Grazing	Scott	MNJV
6-Apr-22	9:30	Caribou	4	Lake Near Winter Road	Grazing	Scott	MNJV
6-Apr-22	10:32	Caribou	9	QM Laydown	Grazing	Erica Mark Shawn	Stantec
6-Apr-22	10:50	Caribou	5	AN Building	Grazing	Erica Mark Shawn	Stantec
6-Apr-22	11:00	Red Fox	1	QM Laydown	N/A	Mechanic	Brandt
6-Apr-22	11:20	Red Fox	1	Waste Management	Running	Erica Mark Shawn	Stantec
6-Apr-22	12:08	Caribou	4	Met Station Hill	Grazing	Erica Mark Shawn	Stantec
6-Apr-22	12:10	Common Raven	1	Top of Process Plant	Resting	Erica Mark Shawn	Stantec
6-Apr-22	12:16	Squirrel	1	PS3	Running	Erica Mark Shawn	Stantec
6-Apr-22	12:25	Common Raven	1	PS4	Flying toward 12 million Tanks	Erica Mark Shawn	Stantec
7-Apr-22	10:04	Common Raven	1	Parking lot	Flying	Erica Mark Shawn	Stantec
7-Apr-22	14:14	Squirrel	1	Laydown 1	Running	Erica Mark Shawn	Stantec
7-Apr-22	14:57	Caribou	1	WMP	Grazing	Erica Mark Shawn	Stantec
8-Apr-22	6:17	Caribou	12	Met Station Hill	Resting	Erica Mark Shawn	Stantec
8-Apr-22	12:20	Caribou	1	AN Building	Grazing	Erica Mark Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
9-Apr-22	9:30	Caribou	25	WMP	Feeding	Scott	MNJV
9-Apr-22	14:30	Caribou	28	Met Station Hill	Grazing	Shawn	Stantec
9-Apr-22	14:38	Common Raven	1	Process Building	Flying	Shawn	Stantec
10-Apr-22	6:42	Caribou	14	Met Station Hill	Grazing	Mark Shawn	Stantec
10-Apr-22	10:51	Common Raven	1	PS1	Flying	Mark Shawn	Stantec
10-Apr-22	11:16	Caribou	5	WMP Hill	Grazing	Mark Shawn	Stantec
10-Apr-22	12:30	Caribou	28	Met Station Hill	Grazing	Mark Shawn	Stantec
11-Apr-22	7:34	Caribou	13	Met Station Hill	Resting	Mark Shawn	Stantec
11-Apr-22	7:50	Caribou	1	Winter Road	Grazing	Mark Shawn	Stantec
12-Apr-22	N/A	Common Raven	2	Landfill	Eating Plastic	Mark	Stantec
12-Apr-22	N/A	Caribou	22	Sump 4 and Snap Lake	Grazing	Mark	Stantec
12-Apr-22	12:05	Caribou	5	Airstrip	Walking	Holly	Stantec
12-Apr-22	15:30	Caribou	2	Old Water Pumphouse	Resting	Holly	Stantec
13-Apr-22	9:20	Caribou	3	WMP Hill	Grazing	Bernadette	Golder
13-Apr-22	9:45	Snow Bunting	1	Haul Road	Flying	Holly	Stantec
13-Apr-22	10:09	Caribou	7	PS5	Walking	Holly	Stantec
13-Apr-22	am	Arctic Hare	2	Logistics	Running	Ray	Stantec
14-Apr-22	9:00	Common Raven	2	12 million Tanks	Flying	Holly	Stantec
14-Apr-22	13:20	Caribou	2	WMP Hill	Grazing	Holly	Stantec
15-Apr-22	10:12	Caribou	2	WMP	Grazing	Holly	Stantec
15-Apr-22	16:45	Common Raven	1	PS3	Landing	Holly	Stantec
16-Apr-22	11:30	Caribou	1	Snap Lake	Walking	Holly	Stantec
16-Apr-22	8:00	Caribou	1	WMP Hill	N/A	Scott	MNJV
16-Apr-22	N/A	Common Raven	1	Transfer Tower	Landing	Mark	Stantec
17-Apr-22	7:38	Caribou	4	Waste Management	Resting	Holly	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
17-Apr-22	7:40	Caribou	12	Airstrip	Resting/Grazing	Holly	Stantec
17-Apr-22	10:45	Common Raven	2	North Pile	Flying	Holly	Stantec
17-Apr-22	10:55	Caribou	12	Snap Lake near PS4	Resting	Holly	Stantec
17-Apr-22	11:05	Caribou	1	Snap Lake near PS5	Resting	Holly	Stantec
17-Apr-22	11:14	Common Raven	2	Process Building	Gliding/Landing	Holly	Stantec
17-Apr-22	11:16	Common Raven	1	FAR	Flying	Holly	Stantec
17-Apr-22	15:30	Common Raven	1	12 million Tanks	Calling	Holly	Stantec
17-Apr-22	15:35	Common Raven	1	Starter Cell	Landing	Holly	Stantec
18-Apr-22	8:59	Snow Bunting	3	PS3	Flying	Holly	Stantec
18-Apr-22	9:02	Common Raven	2	12 million Tanks	Carrying Sticks	Holly	Stantec
18-Apr-22	9:15	Caribou	2	Snap Lake	Walking	Holly	Stantec
18-Apr-22	14:30	Common Raven	1	Crush Pile	Sitting	Holly	Stantec
20-Apr-22	10:30	Arctic Hare	1	Parking lot	Sitting	Holly Roxanne Jason	Stantec
20-Apr-22	10:35	Caribou	13	Airstrip	Grazing/Resting	Holly Roxanne Jason	Stantec
20-Apr-22	10:55	Caribou	1	Snap Lake	Walking	Holly Roxanne Jason	Stantec
20-Apr-22	11:30	Common Raven	1	Transfer Tower	Sitting	Holly Roxanne Jason	Stantec
20-Apr-22	14:36	Common Raven	4	Snap Lake	Flying	Holly Roxanne Jason	Stantec
20-Apr-22	15:15	Squirrel	1	Hydro met Station	Chattering	Jason	Stantec
21-Apr-22	6:15	Caribou	11	WMP	Standing/Resting	Holly Roxanne	Stantec
21-Apr-22	7:30	Arctic Hare	1	Parking lot	Sitting	Jason	Stantec
21-Apr-22	12:05	Common Raven	1	Process Building	Flying	Holly Roxanne	Stantec
21-Apr-22	12:06	Caribou	1	Snap Lake	Walking	Holly Roxanne	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
22-Apr-22	11:15	Caribou	16	Hill by WMP	Resting/Walking	Holly Roxanne	Stantec
22-Apr-22	11:17	Snow Bunting	1	Haul Road	Flying/Landing	Holly Roxanne	Stantec
22-Apr-22	11:37	Common Raven	2	North Pile	Flying with vole in mouth	Holly Roxanne	Stantec
22-Apr-22	11:59	Caribou	5	Water World	Standing	Holly Roxanne	Stantec
22-Apr-22	12:05	Common Raven	1	Camp to Snap Lake	Flying	Holly Roxanne	Stantec
22-Apr-22	13:48	Caribou	9	Dam 1	Standing	Holly Roxanne	Stantec
22-Apr-22	14:35	Common Raven	4	Over North Pile	Flying, Fighting(?)	Holly Roxanne	Stantec
23-Apr-22	8:02	Wolverine	1	Landfill	Walking to North Pile	Ken	MNJV
23-Apr-22	8:48	Caribou	25	Met station hill	25+ Being hunted by the wolverine	Holly Roxanne Jason	Stantec
23-Apr-22	9:55	Caribou	87	On snap lake	Resting	Holly Roxanne Jason	Stantec
24-Apr-22	9:00	Wolf	1	Road by airport	Not reported	Not identified	MNJV
24-Apr-22	10:32	Caribou	1	By airport	Resting	Holly Roxanne Jason	Stantec
24-Apr-22	10:35	Caribou	1	Airstrip	Resting	Holly Roxanne Jason	Stantec
24-Apr-22	14:20	Caribou	4	By airport	Walking	Holly Roxanne Jason	Stantec
24-Apr-22	16:00	Caribou	2	Walking up runway	Walking	Holly Roxanne Jason	Stantec
24-Apr-22	16:02	Common Raven	1	Over North Pile	Flying	Holly Roxanne Jason	Stantec
25-Apr-22	9:55	Snow Bunting	15-20	Flying over North Pile	Flying	Holly Roxanne Jason	Stantec
25-Apr-22	9:55	Snow Bunting	15-20	By sump 1	Flying	Holly Roxanne Jason	Stantec
25-Apr-22	10:11	Caribou	7	Snap Lake	Walking	Holly	Stantec
25-Apr-22	10:16	Snow Bunting	1	Hill station	Flying	Holly	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
25-Apr-22	10:21	Snow Bunting	2	Hill station	Taking off	Holly	Stantec
25-Apr-22	10:36	Snow Bunting	1	Hill station	Pecking	Holly	Stantec
25-Apr-22	10:43	Common Raven	1	WMP	Flying	Holly	Stantec
25-Apr-22	10:44	Snow Bunting	7	Hill station	Flying/Landing	Holly	Stantec
25-Apr-22	11:13	Caribou	3	On Snap Lake	Laying	Holly Roxanne Jason	Stantec
25-Apr-22	11:13	Caribou	3	Snap Lake	Laying	Holly Roxanne Jason	Stantec
25-Apr-22	15:15	Arctic Hare	1	12million tank	Hiding	Holly Roxanne Jason	Stantec
25-Apr-22	15:20	Arctic Hare	1	Refueling Mod	Hiding	Holly Roxanne Jason	Stantec
25-Apr-22	-	Arctic Hare	1	Hazard waste area	-	Ken	MNJV
25-Apr-22	-	Caribou	80	Snap Lake by FAR	80-100 NR	Ed	MNJV
25-Apr-22	-	Caribou	30	Back side of camp	-	Kyle	DeBeers
27-Apr-22	6:15	Caribou	48	WMP	Walking/Grazing	Roxanne Shawn	Stantec
27-Apr-22	14:16	Common Raven	2	Transfer Tower	Flying/Landing	Roxanne Shawn	Stantec
27-Apr-22	14:25	Arctic Hare	1	Tk 003	Hiding/Running	Roxanne Shawn	Stantec
27-Apr-22	14:40	Arctic Hare	2	330 000L Tank Farm	Hiding	Roxanne Shawn	Stantec
28-Apr-22	11:38	Common Raven	1	Over Camp	Flying	Roxanne Shawn	Stantec
28-Apr-22	11:38	Caribou	10	Met Station Hill	Standing/ Grazing	Roxanne Shawn	Stantec
28-Apr-22	11:40	Snow Bunting	1	Met Station Hill	Flying towards camp	Roxanne Shawn	Stantec
28-Apr-22	12:14	Caribou	1	Met Station Hill	Walking	Roxanne Shawn	Stantec
28-Apr-22	12:14	Common Raven	1	Tk 002	Flying	Roxanne Shawn	Stantec
28-Apr-22	13:51	Common Raven	2	Tk 002+ Tk 003	Flying/Landing	Roxanne Shawn	Stantec
28-Apr-22	14:00	Common Raven	1	Transfer tower	Flying	Guy	MNJV
28-Apr-22	16:00	Caribou	20	Met station Hill	~ 20 - Resting	Scott	MNJV



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
28-Apr-22	-	Caribou	80	Snap Lake	~ 80 Walking	Ed	MNJV
29-Apr-22	9:00	Caribou	2	Hill by Sump 2	Standing	Roxanne Shawn	Stantec
29-Apr-22	9:05	Arctic Hare	3	Met Station Hill	Running	Roxanne Shawn	Stantec
29-Apr-22	9:08	Arctic Hare	1	Near camp	Hiding	Roxanne Shawn	Stantec
29-Apr-22	9:10	Caribou	34	Snap Lake	Standing	Roxanne Shawn	Stantec
29-Apr-22	9:10	Caribou	9	Snap Lake	Standing/Walking	Roxanne Shawn	Stantec
29-Apr-22	9:44	Arctic Hare	1	Road by Met Station	Running	Roxanne Shawn	Stantec
30-Apr-22	10:55	Caribou	10	By landfill	Grazing/Resting	Roxanne Shawn	Stantec
30-Apr-22	10:55	Caribou	2	Snap Lake	Walking	Roxanne Shawn	Stantec
30-Apr-22	13:39	Snow Bunting	7	Met Station Hill	Flying	Roxanne Shawn	Stantec
30-Apr-22	14:40	Common Raven	2	Tk 003	Flying/Landing	Roxanne Shawn	Stantec
30-Apr-22	14:25	Caribou	10	Sump 5	Standing/Walking	Roxanne Shawn	Stantec
30-Apr-22	14:42	Caribou	10	On/Near ice road	Walking/Grazing	Roxanne Shawn	Stantec
30-Apr-22	-	Caribou	4	Airstrip	-	Scott	MNJV
30-Apr-22	-	Caribou	10	Met station Hill	-	Scott	MNJV
30-Apr-22	-	Caribou	20	Road past landfill	-	Scott	MNJV
30-Apr-22	14:50	Caribou	20	Snap Lake	Standing	Roxanne Shawn	Stantec
30-Apr-22	15:00	Common Raven	2	Over camp	Flying	Roxanne Shawn	Stantec
30-Apr-22	16:20	Hawk	1	Over Process Building	Flying/Diving	Guy	MNJV
1-May-22	10:46	Snow Bunting	25	Road to emulsion	Flying/Landing	Roxanne Shawn	Stantec
1-May-22	11:45	Caribou	11	Across airport	Walking	Roxanne Shawn	Stantec
1-May-22	12:55	Caribou	12	WMP	Running	Roxanne Shawn	Stantec
1-May-22	13:00	Common Raven	2	Over Camp	Flying	Roxanne Shawn	Stantec
1-May-22	16:22	Common Raven	1	Powerhouse	Flying	Roxanne Shawn	Stantec
2-May-22	10:43	Snow Bunting	10	By sump 3	Flying	Roxanne Shawn	Stantec



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Appendix B Wildlife Sightings Log

March 28, 2023

Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
3-May-22	13:45	Snow Bunting	20	Between sump 1 and 2	Flying	Mark Shawn	Stantec
3-May-22	15:20	Common Raven	1	Process Building Bay 107 vent	Nesting/Flying	Mark Shawn	Stantec
4-May-22	5:45	Caribou	6	WMP	Walking/Drinking	Mark Shawn	Stantec
4-May-22	13:50	Caribou	1	Waste Management Area	Grazing	Mark Shawn	Stantec
4-May-22	14:00	Snow Bunting	2	Near Sump 2	Flying	Mark Shawn	Stantec
4-May-22	14:25	Caribou	5	Near Airstrip	Grazing	Mark Shawn	Stantec
4-May-22	14:25	Ptarmigan	1	Near Airstrip	Flying	Mark Shawn	Stantec
4-May-22	14:47	Common Raven	2	On top Process Building	Sitting	Mark Shawn	Stantec
5-May-22	6:30	Caribou	4	WMP	Standing	Mark Shawn	Stantec
5-May-22	13:26	Snow Bunting	6	AN Building	Flying	Mark Shawn	Stantec
5-May-22	14:05	Unknown Raptor	1	Over North Pile	Flying	Mark Shawn	Stantec
5-May-22	14:15	Snow Bunting	3	Sump 4	Flying	Mark Shawn	Stantec
5-May-22	14:30	Snowshoe Hare	2	Common Building	Foraging/hiding	Mark Shawn	Stantec
5-May-22	14:30	Gull	1	WMP	Sitting	Scott	MNJV
5-May-22	11:00	Caribou	30	Dam 1	~ 30 Walking	Vida	DeBeers
6-May-22	7:00	Caribou		Laydown 1	- Walking	MNJV	MNJV
6-May-22	5:45	Caribou	8	WMP	Walking	Shawn	Stantec
6-May-22	14:20	Caribou	3	Waste Management Area	Grazing	Mark Shawn	Stantec
6-May-22	14:25	Sparrow	3	Waste Management Area	Flying/Landing	Mark Shawn	Stantec
6-May-22	14:50	Gull	1	Sump 3	Standing	Mark Shawn	Stantec
6-May-22	15:59	Common Raven	1	North pile	Flying	Mark Shawn	Stantec
7-May-22	5:45	Caribou	4	WMP	Walking	Shawn	Stantec
7-May-22	5:45	Common Raven	1	WMP	Flying South	Shawn	Stantec
7-May-22	13:35	Snow Bunting	14	Laydown 1	Flying	Mark Shawn	Stantec
7-May-22	14:27	Common Raven	2	Transfer Tower	Resting	Mark Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
7-May-22	16:20	Snow Bunting	20	South of camp	Flying	Mark	Stantec
9-May-22	15:33	Common Raven	1	North Pile	Flying	Mark Shawn	Stantec
10-May-22	8:30	Common Raven	1	Northside Tk002	Flying	Mark Shawn	Stantec
10-May-22	15:53	Common Raven	1	Tk001	Checking nest/Guarding	Holly Shawn	Stantec
11-May-22	9:09	Snow Bunting	2	Rack of PS5	Flying	Holly Shawn	Stantec
11-May-22	9:37	Snow Bunting	11	PS2	Flying	Holly Shawn	Stantec
12-May-22	8:14	Caribou	14	WMP Hill	Grazing	Shauna	Horizon
12-May-22	9:26	Common Raven	1	Snap Lake	Flying	Holly Shawn	Stantec
12-May-22	9:51	Small Bird	2	North Pile	Flying	Holly Shawn	Stantec
12-May-22	10:00	Caribou	1	WMA	Standing	Holly Shawn	Stantec
12-May-22	10:00	Snow Bunting	30	WMA	Flying	Holly Shawn	Stantec
12-May-22	9:59	Hawk	1	North Pile	Flying	Holly Shawn	Stantec
12-May-22	-	Common Raven	1	Transfer Tower	Flying with Stick	Mathieu	DeBeers
12-May-22	-	Snow Geese	-	Weather Station Hill	Flying high	Eric	DeBeers
12-May-22	15:43	Gull	1	WMP	Flying	Holly Shawn	Stantec
13-May-22	9:40	Goose	65	Snap Lake	Flying	Holly Shawn	Stantec
13-May-22	9:50	Gull	1	WMP	Flying	Holly Shawn	Stantec
13-May-22	9:50	Goose	6	Transfer tower	Flying	Holly Shawn	Stantec
13-May-22	10:05	Common Raven	2	PS4	Caring Sticks	Holly Shawn	Stantec
13-May-22	10:05	Unknown Duck	4	North Pile	Flying	Holly Shawn	Stantec
13-May-22	-	Unknown Duck	6	North Pile	-	Scott	MNJV
13-May-22	-	Hare	3	-	-	Vida	DeBeers
13-May-22	-	Gull	1	-	-	Felix	DeBeers
14-May-22	-	Squirrel	2	Big top	-	Becky	QM
14-May-22	-	Gull	1	Big top	-	Steve	QM



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
14-May-22	9:15	Hare	1	PS5	Wondering	Holly Shawn	Stantec
14-May-22	9:31	Unknown Raptor	1	Sump 2	Flying	Holly Shawn	Stantec
14-May-22	9:39	Hare	1	Waste Management Area	Eating Plastic	Holly Shawn	Stantec
14-May-22	9:53	Northern Pintail	4	Cell 5 North Pile	Swimming	Holly Shawn	Stantec
14-May-22	9:55	Gull	1	Sump 2	Flying	Holly Shawn	Stantec
14-May-22	10:04	Gull	2	Airport/Laydown 1	Flying	Holly Shawn	Stantec
14-May-22	13:55	Sparrow	20	FAR	Flying	Holly Shawn	Stantec
14-May-22	13:55	Gull	1	FAR	Flying	Holly Shawn	Stantec
14-May-22	14:05	Northern Harrier	1	Winter Road Access	Flying	Holly Shawn	Stantec
14-May-22	15:00	Common Raven	1	NP near land farm	Sitting/Calling	Holly Shawn	Stantec
14-May-22	15:11	Common Raven	1	Transfer Tower	Sitting	Holly Shawn	Stantec
14-May-22	16:34	Goose	25	North Pile	Flying	Holly Shawn	Stantec
15-May-22	9:05	Goose	1	North Pile	Flying	Holly Shawn	Stantec
15-May-22	9:18	Unknown Duck	2	Laydown 1	Flying	Holly Shawn	Stantec
15-May-22	9:22	Unknown Duck	4	Winter Road Access	Flying	Holly Shawn	Stantec
15-May-22	9:45	White-crowned Sparrow	1	PS5	Flying/Gazing	Holly Shawn	Stantec
15-May-22	9:54	American Pipit	1	Gazebo	Flying/Resting	Holly Shawn	Stantec
15-May-22	9:56	Common Raven	2	FAR	Flying	Holly Shawn	Stantec
15-May-22	10:00	Gull	1	STP/Camp	Flying	Holly Shawn	Stantec
15-May-22	10:05	Small Bird	1	WMP	Gazing	Holly Shawn	Stantec
15-May-22	15:22	Common Raven	1	FAR	Sitting	Holly Shawn	Stantec
15-May-22	15:58	Goose	~100	Day Tanks	Flying	Holly Shawn	Stantec
16-May-22	7:55	Sparrow	1	PS4	Flying	Holly Shawn	Stantec
16-May-22	14:30	Sparrow	4	Dam 1	Flying	Holly Shawn	Stantec
17-May-22	7:22	Small Bird	1	WMP	Flying	Holly Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
17-May-22	7:30	Common Raven	1	WMA	Flying	Holly Shawn	Stantec
17-May-22	7:33	Small Bird	1	-	-	-	-
18-May-22	8:00	American Robin	1	Vehicle Shop	-	Dan	Stantec
18-May-22	8:00	White-crowned Sparrow	3	PS1	Flying in trees	Holly Nicola Dan	Stantec
18-May-22	8:10	Snowshoe Hare	2	PS1	Sitting/Hopping	Holly Nicola Dan	Stantec
18-May-22	8:15	Common Raven	2	PS5	Flying	Holly Nicola Dan	Stantec
18-May-22	8:30	Snowshoe Hare	1	Lake Shed	Sitting/Hopping	Holly Nicola Dan	Stantec
18-May-22	8:35	Common Raven	2	Gazebo	Sitting in tree	Holly Nicola Dan	Stantec
18-May-22	8:40	Gull	2	WMP	Sitting	Holly Nicola Dan	Stantec
18-May-22	9:00	Common Raven	2	Camp	Flying with nesting	Holly Nicola Dan	Stantec
18-May-22	14:10	Snowshoe Hare	1	Tanks	Sitting/Hopping	Holly Nicola Dan	Stantec
18-May-22	14:30	Common Raven	2	FAR	Nesting	Holly Nicola Dan	Stantec
18-May-22	15:00	Goose	60	North of Snap Lake	Flying	Holly	Stantec
19-May-22	8:20	American Robin	1	PS1	Flying/Calling	Holly	Stantec
19-May-22	8:15	Sparrow	20	WMA	Flying	Holly Nicola	Stantec
19-May-22	9:19	Sparrow	10	PS5	Flying	Holly Nicola	Stantec
19-May-22	10:30	Hare	1	WMA Hill	Sitting	Holly Nicola	Stantec
19-May-22	12:40	Gull	5	Crusher	Fighting	Holly Nicola	Stantec
19-May-22	1:00	American Tree Sparrow	6	FAR	Flying	Holly Nicola	Stantec
19-May-22	1:15	Common Raven	2	FAR	Making nest	Holly Nicola	Stantec
20-May-22	7:40	Common Raven	1	Over North Pile	Flying	Holly Nicola	Stantec
20-May-22	7:50	Gull	2	PS2	Flying	Holly Nicola	Stantec
20-May-22	8:00	American Robin	2	Core Shack/PS3	Flying/Calling	Holly Nicola	Stantec
20-May-22	13:35	Northern Pintail	2	Between emulsion Rd and Airport	Swimming	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
20-May-22	14:03	Greater White-fronted Goose	1	Over cell 2	Flying	Holly Nicola	Stantec
20-May-22	14:06	Gull	1	Over Cell B	Flying	Holly Nicola	Stantec
20-May-22	14:14	Northern Harrier	1	Laydown 1	Flying	Holly Nicola	Stantec
20-May-22	14:29	American Tree Sparrow	5	WMA Hill	-	Holly Nicola	Stantec
21-May-22	8:20	Squirrel	3	PS1/Top of waste Pile	Eating	Holly Nicola	Stantec
21-May-22	-	Sparrow	20	Haul Road	Flying	Holly Nicola	Stantec
21-May-22	-	Common Raven	1	Parking Lot	Flying	Holly Nicola	Stantec
21-May-22	-	Gull	2	PS2	Flying	Holly Nicola	Stantec
21-May-22	-	American Robin	1	PS1	Flying	Holly Nicola	Stantec
21-May-22	-	Snowshoe Hare	1	QM Laydown	Hopping	Holly Nicola	Stantec
21-May-22	-	Goose	60	North Pile	Flying	Holly Nicola	Stantec
21-May-22	-	Swallow	8	Parking Lot	Flying	Holly Nicola	Stantec
22-May-22	8:30	Squirrel	1	Behind Process Plant	Running	Holly Nicola	Stantec
22-May-22	14:15	Hare	1	AST	Sitting/Hopping	Holly Nicola	Stantec
22-May-22	14:00	Common Raven	3	Process Plant	Nesting	Holly Nicola	Stantec
22-May-22	8:40	Northern Pintail	1	PS3	Flying	Holly Nicola	Stantec
22-May-22	8:35	American Robin	1	PS2	Flying	Holly Nicola	Stantec
22-May-22	8:15	Gull	10	North Pile	Flying	Holly Nicola	Stantec
23-May-22	-	Lapland Longspur	1	-	-	Holly Nicola	Stantec
23-May-22	-	American Pipit	1	-	Flying	Holly Nicola	Stantec
23-May-22	9:30	Gull	2	Over PS5	Flying	Holly Nicola	Stantec
23-May-22	8:55	American Robin	1	PS1	Flying	Holly Nicola	Stantec
23-May-22	7:55	Snowshoe Hare	3	WMP Hill	Sitting/Resting	Holly Nicola	Stantec
23-May-22	-	American Kestrel	1	-	Flying	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
23-May-22	-	Northern Harrier	1	WMP	Flying	Holly Nicola	Stantec
24-May-22	2:30	Gull	1	FAR	Flying	Mark Nicola	Stantec
24-May-22	7:50	American Robin	1	PS1	Flying	Holly Nicola	Stantec
24-May-22	8:30	Caribou	2	Behind Camp	-	Dan	Stantec
24-May-22	8:30	Red Fox	1	Road between sump 3 and 5	Running	Alex (Electrician)	Lakewood
25-May-22	9:30	Goose	20	North Snap Lake	Flying	Mark Nicola	Stantec
25-May-22	12:10	Swallow	3	Swamp Area	Flying	Mark Nicola	Stantec
25-May-22	12:30	Swallow	3	Transfer Tower	Walking/Flying	Mark Nicola	Stantec
25-May-22	12:40	Swallow	3	WMP	Flying/Feeding	Mark Nicola	Stantec
26-May-22	11:00	Swallow	8	Process Plant	Nesting	Mark Nicola	Stantec
26-May-22	11:50	Swallow	3	Sump 3	Flying	Mark Nicola	Stantec
26-May-22	12:30	Swallow	4	WMP	Flying	Mark Nicola	Stantec
27-May-22	12:45	Swallow	3	WMP	Flying	Mark Nicola	Stantec
27-May-22	1:00	Swallow	1	Transfer Tower	Flying	Mark Nicola	Stantec
27-May-22	3:00	Ptarmigan	1	South of Airstrip	Sitting	Mark Nicola	Stantec
27-May-22	2:15	Grizzly Bear	1	North ditch road to south of airstrip	Walking	Ken	MNJV
28-May-22	9:30	Common Raven	2	North ditch road to south	Flying	Mark Nicola	Stantec
28-May-22	9:00	Snowshoe Hare	1	Parking lot	Sitting	Megan	Stantec
28-May-22	9:40	Ptarmigan	1	North ditch road to south	Flying	Mark Nicola	Stantec
28-May-22	4:10	Sparrow	4	Airstrip	Flying	Mark Nicola	Stantec
28-May-22	10:05	Sparrow	2	PS2	Flying	Mark Nicola	Stantec
28-May-22	10:15	Sparrow	1	PS1	Flying	Mark Nicola	Stantec
28-May-22	10:40	Sparrow	1	WMP	Flying	Mark Nicola	Stantec
29-May-22	3:00	Swallow	2	Laydown 1	Flying	Mark Nicola	Stantec
29-May-22	3:05	Swallow	2	Sump 3	Flying	Mark Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
30-May-22	9:15	Goose	4	Stantec C-Can	Walking/Standing	Ryan	Stantec
30-May-22	3:40	Unknown Duck	1	WMP	Swimming	Mark Nicola	Stantec
30-May-22	3:00	Swallow	2	Sump 2	Flying	Mark Nicola	Stantec
31-May-22	7:30	Muskox	1	Airstrip	Walking	Ed	MNJV
31-May-22	7:30	Ptarmigan	4	Airstrip	Sitting	Ed	MNJV
31-May-22	7:30	Snowshoe Hare	1	Airstrip	-	Ed	MNJV
31-May-22	12:00	Common Raven	1	Emulsion Area	Flying	Mark Nicola	Stantec
1-Jun-22	8:30	Goose	4	WMP	Swimming	Dave	MNJV
1-Jun-22	10:19	Arctic Hare	2	Between sumps 4 and 5	Sitting/Running	Roxanne Nicola	Stantec
1-Jun-22	10:39	Swallow	1	Sump 4 and Snap Lake	Flying	Roxanne Nicola	Stantec
1-Jun-22	10:45	Unknown Duck	3	Sump 3	Swimming	Roxanne Nicola	Stantec
1-Jun-22	16:20	Goose	5	WMP	Flying/Swimming	Roxanne Nicola	Stantec
2-Jun-22	11:30	Sparrow	1	Road to Sump 1	Flying	Roxanne Nicola	Stantec
2-Jun-22	12:10	Sparrow	1	FAR	Sitting in branch	Roxanne Nicola	Stantec
2-Jun-22	12:10	Goose	-	FAR	Heard geese call	Roxanne Nicola	Stantec
2-Jun-22	12:55	Snow Bunting	1	Main Road	Flying	Roxanne Nicola	Stantec
2-Jun-22	14:45	Snow Bunting	2	Sump 5	Flying/Sitting	Roxanne Nicola	Stantec
2-Jun-22	15:15	Cliff Swallow	15-20	ERT Bay	Nesting/Mating	Roxanne Nicola	Stantec
3-Jun-22	10:10	Sparrow	1	Main road by Sump 2	Flying	Roxanne Nicola	Stantec
3-Jun-22	10:28	Goose	2	Sump 5	Flying	Roxanne Nicola	Stantec
3-Jun-22	10:30	Common Raven	1	Sump 5	Flying	Roxanne Nicola	Stantec
3-Jun-22	10:30	Snow Bunting	1	Road between sump 4 and 5	Flying	Roxanne Nicola	Stantec
3-Jun-22	11:35	Sparrow	2	Main Road	Flying	Roxanne Nicola	Stantec
3-Jun-22	15:30	Swallow	1	Behind utility building	Flying	Roxanne Nicola	Stantec
3-Jun-22	16:40	Swallow	1	ERT building	Flying	Roxanne Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
4-Jun-22	6:50	Arctic Hare	1	PM 2.5	Trying to hope over pipe	Roxanne Nicola	Stantec
4-Jun-22	10:55	Sparrow	3	Camp	Flying	Roxanne Nicola	Stantec
4-Jun-22	12:15	Unknown Duck	6	WMP	Swimming	Roxanne Nicola	Stantec
4-Jun-22	13:50	Swallow	10	North Pile	Flying	Roxanne Nicola	Stantec
4-Jun-22	15:20	Swallow	20	ERT Bay	Nesting	Roxanne Nicola	Stantec
5-Jun-22	9:20	Arctic Hare	1	Trailers/Process Plant	Hopping	Roxanne Nicola	Stantec
5-Jun-22	9:40	Swallow	<5	North Pile	Flying	Roxanne Nicola	Stantec
5-Jun-22	10:30	Red Fox	1	Main road/pipes	Running	Roxanne Nicola	Stantec
5-Jun-22	11:30	Swallow	30	ERT Bay	Flying	Roxanne Nicola	Stantec
5-Jun-22	13:20	Unknown Duck	2	WMP	Swimming	Roxanne Nicola	Stantec
6-Jun-22	11:00	Bank Swallow	5	North Pile	Flying	Roxanne Nicola	Stantec
6-Jun-22	11:30	Swallow	5	Process Plant	Flying	Roxanne Nicola	Stantec
7-Jun-22	8:50	Goose	1	WMP	Swimming	Roxanne Nicola	Stantec
8-Jun-22	7:30	Swallow	5	Camp Parking lot	Flying	Holly Shawn	Stantec
8-Jun-22	8:00	Unknown Duck	7	PS3	Swimming	Holly Shawn	Stantec
8-Jun-22	8:10	Sparrow	2	PS3	Flying/Landing	Holly Shawn	Stantec
8-Jun-22	8:42	Arctic Hare	2	Old Nuna Shop	Walking	Holly Shawn	Stantec
8-Jun-22	8:46	American Robin	1	Old Nuna Shop	Flying	Holly Shawn	Stantec
8-Jun-22	8:59	Greater White-fronted Goose	7	WMP	Swimming	Holly Shawn	Stantec
8-Jun-22	8:59	Long-tailed Duck	2	WMP	Swimming	Holly Shawn	Stantec
8-Jun-22	8:59	Bank Swallow	20	WMP	Flying/Landing in nest	Holly Shawn	Stantec
9-Jun-22	7:48	Muskox	1	Runway	Grazing	Ed	MNJV
9-Jun-22	8:15	Cliff Swallow	10	Process Building	Flying	Holly Shawn	Stantec
9-Jun-22	8:16	Common Raven	2	Process Building	Flying/Sitting	Holly Shawn	Stantec
9-Jun-22	8:25	Arctic Hare	1	PS3	Walking	Holly Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
9-Jun-22	8:42	Greater White-fronted Goose	1	Lakeside PS4	Flying	Holly Shawn	Stantec
9-Jun-22	9:08	Gull	1	Over Snap North Side of site	Flying	Holly Shawn	Stantec
9-Jun-22	9:19	Long-tailed Duck	5	WMP	Swimming	Holly Shawn	Stantec
9-Jun-22	7:45	Red Fox	3	Culvert	-	Holly Shawn	Stantec
9-Jun-22	14:30	Black Scoter	3	Runway Pond	Swimming	Holly Shawn	Stantec
9-Jun-22	14:50	Yellow Warbler	1	Runway	Flying	Holly Shawn	Stantec
10-Jun-22	8:33	American Robin	1	PS5	Flying	Holly Shawn	Stantec
10-Jun-22	8:45	Harris's Sparrow	1	Winter road access	Sitting	Holly Shawn	Stantec
10-Jun-22	8:45	American Robin	1	Winter road access	Sitting	Holly Shawn	Stantec
10-Jun-22	8:51	Rodent	1	FAR	Running	Holly Shawn	Stantec
10-Jun-22	8:54	Unknown Raptor	1	High above process tower	Flying	Holly Shawn	Stantec
10-Jun-22	9:31	Bank Swallow	40	WMP	Flying	Holly Shawn	Stantec
10-Jun-22	9:42	Greater White-fronted Goose	3	WMP	Swimming/Standing	Holly Shawn	Stantec
10-Jun-22	9:42	Greater Scaup	2	WMP	Swimming	Holly Shawn	Stantec
10-Jun-22	13:45	American Pipit	1	WMP near damn 2	Walking	Holly Shawn	Stantec
10-Jun-22	13:45	American Robin	1	WMP near 02-02	Flying/Standing	Holly Shawn	Stantec
10-Jun-22	13:55	Gull	1	Over North Pile	Flying	Holly Shawn	Stantec
10-Jun-22	9:41	Cliff Swallow	1	Dam 1	Resting	Holly Shawn	Stantec
10-Jun-22	9:46	Cliff Swallow	2	Parking lot	Perched on wire	Holly Shawn	Stantec
11-Jun-22	8:29	Gull	3	North Pile	Flying	Holly Shawn	Stantec
11-Jun-22	8:40	American Robin	1	PS1	Calling	Holly Shawn	Stantec
11-Jun-22	9:01	Greater White-fronted Goose	4	PS3	Flying	Holly Shawn	Stantec
11-Jun-22	9:07	Yellow Warbler	1	PS3 lakeside	Calling	Holly Shawn	Stantec
11-Jun-22	9:32	American Robin	1	PS5	Flying	Holly Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
11-Jun-22	9:46	Sparrow	1	FAR	Sitting	Holly Shawn	Stantec
11-Jun-22	10:05	Long-tailed Duck	4	WMP	Swimming	Holly Shawn	Stantec
11-Jun-22	10:05	Greater White-fronted Goose	1	WMP	Swimming	Holly Shawn	Stantec
11-Jun-22	10:05	Bank Swallow	20	WMP	Flying	Holly Shawn	Stantec
11-Jun-22	15:26	Common Raven	1	Process Building	Perched	Holly Shawn	Stantec
11-Jun-22	15:47	American Robin	1	LV shop	Sitting	Holly Shawn	Stantec
11-Jun-22	16:06	American Robin	1	Comm Tower	Flying	Holly Shawn	Stantec
11-Jun-22	-	Squirrel	1	LV shop	Packing food	Jason	MNJV
12-Jun-22	9:00	Yellow Warbler	1	PS3	Flying	Holly Shawn	Stantec
12-Jun-22	9:00	Bank Swallow	3	PS3	Flying	Holly Shawn	Stantec
12-Jun-22	16:20	Greater White-fronted Goose	60	Side utility building	Flying	Holly Shawn	Stantec
12-Jun-22	16:33	Greater White-fronted Goose	1	WMP	Swimming	Holly Shawn	Stantec
12-Jun-22	16:33	Long-tailed Duck	3	WMP	Swimming	Holly Shawn	Stantec
12-Jun-22	16:33	American Tree Sparrow	1	WMP	Perched	Holly Shawn	Stantec
12-Jun-22	-	Arctic Hare	1	Laydown 1	Hiding	Darren	DeBeers
13-Jun-22	7:45	American Robin	1	Winter road access	Flying	Shawn	Stantec
13-Jun-22	7:59	Common Raven	2	PS4	Flying	Shawn	Stantec
13-Jun-22	8:08	Bank Swallow	10	PS4 lakeside	Hunting	Shawn	Stantec
13-Jun-22	8:29	Bank Swallow	10	WMP	Flying	Shawn	Stantec
13-Jun-22	10:05	Greater White-fronted Goose	7	WMP	Swimming	Holly Shawn	Stantec
13-Jun-22	14:53	Cliff Swallow	30	Transfer Tower	Flying	Holly Shawn	Stantec
14-Jun-22	8:08	American Robin	1	QM Laydown	Flying	Holly Shawn	Stantec



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Appendix B Wildlife Sightings Log

March 28, 2023

Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
14-Jun-22	8:52	Greater White-fronted Goose	6	PS3	Walking	Holly Shawn	Stantec
14-Jun-22	8:55	Unknown small bird	1	PS3	Flying	Holly Shawn	Stantec
14-Jun-22	8:57	Yellow Warbler	2	PS3 lakeside	Calling	Holly Shawn	Stantec
14-Jun-22	9:02	American Pipit	1	PS4	Taking off	Holly Shawn	Stantec
14-Jun-22	9:29	Arctic Hare	1	Utility Building	Walking	Holly Shawn	Stantec
14-Jun-22	9:56	Long-tailed Duck	2	WMP	Diving	Holly Shawn	Stantec
14-Jun-22	14:06	Yellow Warbler	1	AN Building	Flying	Holly Shawn	Stantec
14-Jun-22	14:24	Gull	3	North Pile west side	Flying	Holly Shawn	Stantec
14-Jun-22	15:32	Greater White-fronted Goose	9	WMP	Swimming	Holly Shawn	Stantec
15-Jun-22	7:50	Arctic Hare	1	PS2	Hiding	Shawn	Stantec
16-Jun-22	9:33	American Pipit	1	PS1	Calling/Flying	Holly Shawn	Stantec
16-Jun-22	9:33	American Robin	1	PS1	Calling/Flying	Holly Shawn	Stantec
16-Jun-22	10:10	Gull	1	Gazebo	Flying	Holly Shawn	Stantec
16-Jun-22	10:17	Gull	1	300k tank	Flying	Holly Shawn	Stantec
16-Jun-22	10:24	Long-tailed Duck	2	WMP	Swimming	Holly Shawn	Stantec
16-Jun-22	10:24	Plover	2	WMP	Walking	Holly Shawn	Stantec
16-Jun-22	10:24	American Robin	1	Laydown 1	Flying	Holly Shawn	Stantec
16-Jun-22	14:42	Long-tailed Duck	1	WMP	Swimming	Holly Shawn	Stantec
16-Jun-22	14:59	American Robin	1	Lake weather station	Flying	Holly Shawn	Stantec
17-Jun-22	9:15	Green-winged Teal	1	PS1	Swimming	Holly Shawn	Stantec
17-Jun-22	9:25	Greater White-fronted Goose	1	WMP	Swimming	Holly Shawn	Stantec
17-Jun-22	9:28	Long-tailed Duck	3	WMP	Swimming	Holly Shawn	Stantec
17-Jun-22	9:28	Scaup	1	WMP	Swimming	Holly Shawn	Stantec
17-Jun-22	9:34	Gull	1	Boat Launch	Swimming	Holly Shawn	Stantec



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March 28, 2023

Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
18-Jun-22	16:30	Arctic Hare	1	Aux generator	Eating flowers	Nigel	Stantec
18-Jun-22	-	Squirrel	1	Smokers Corner	Running	Chris	MNJV
18-Jun-22	-	Eagle	1	Land farm	Flying	Dustin	QM
18-Jun-22	9:11	American Robin	1	PS1 road	Flying	Holly Shawn	Stantec
18-Jun-22	9:11	Green-winged Teal	1	PS1	Swimming	Holly Shawn	Stantec
18-Jun-22	9:20	American Robin	1	Near enviro shop	Perched	Holly Shawn	Stantec
18-Jun-22	9:23	Yellow Warbler	1	Dock	Flying	Holly Shawn	Stantec
18-Jun-22	9:24	Fish	1	Dock	Breaching	Holly Shawn	Stantec
18-Jun-22	9:27	Squirrel	1	02-15 culvert	Running	Holly Shawn	Stantec
18-Jun-22	9:30	Gull	1	FAR	Flying	Holly Shawn	Stantec
18-Jun-22	9:38	Unknown Duck	1	FAR Lakeside	Flying	Holly Shawn	Stantec
18-Jun-22	10:01	Long-tailed Duck	2	WMP	Swimming	Holly Shawn	Stantec
18-Jun-22	14:53	Common Merganser	1	PS4	Swimming	Holly Shawn	Stantec
19-Jun-22	9:40	Squirrel	1	Dock	Running	Holly Shawn	Stantec
19-Jun-22	9:45	Unknown duck	3	Dock	Landing	Holly Shawn	Stantec
19-Jun-22	9:56	Gull	1	Gazebo	Flying	Holly Shawn	Stantec
19-Jun-22	10:05	Yellow Warbler	1	PS3	Flying	Holly Shawn	Stantec
19-Jun-22	10:05	American Robin	1	PS3	Flying	Holly Shawn	Stantec
19-Jun-22	10:35	Yellow Warbler	1	Between PS4 and PS5	Flying	Holly Shawn	Stantec
19-Jun-22	10:36	Gull	1	PS3 lakeside	Standing	Holly Shawn	Stantec
19-Jun-22	10:40	Gull	2	Snap Lake boat launch	Flying	Holly Shawn	Stantec
19-Jun-22	11:10	Greater White-fronted Goose	8	WMP	Swimming	Holly Shawn	Stantec
19-Jun-22	13:30	Sandpiper	1	02-02 WMP	Running	Holly Shawn	Stantec
19-Jun-22	15:00	Greater White-fronted Goose	8	Snap Lake winter access road	Flying	Holly Shawn	Stantec



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Appendix B Wildlife Sightings Log

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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
19-Jun-22	15:33	Bald Eagle	1	Above LV shop	Flying	Holly Shawn	Stantec
19-Jun-22	15:54	Long-tailed Duck	2	WMP	Swimming	Holly Shawn	Stantec
19-Jun-22	15:54	Plover	2	WMP	Swimming	Holly Shawn	Stantec
19-Jun-22	15:57	Green-winged Teal	1	WMP	Swimming	Holly Shawn	Stantec
20-Jun-22	9:45	Swallow	4	PS1	Flying	Holly Shawn	Stantec
20-Jun-22	9:45	American Robin	1	PS3	Flying	Holly Shawn	Stantec
20-Jun-22	11:20	Long-tailed Duck	2	WMP	Swimming	Holly Shawn	Stantec
20-Jun-22	11:20	Gull	1	WMP	Flying	Holly Shawn	Stantec
20-Jun-22	11:20	Greater White-fronted Goose	1	WMP	Swimming	Holly Shawn	Stantec
20-Jun-22	14:55	Sparrow	1	300k tank	Flying	Holly Shawn	Stantec
20-Jun-22	15:50	Moose	1	North of west cell divider dyke	Grazing	Dustin	QM
20-Jun-22	16:21	Greater White-fronted Goose	20	Westside land farm	Flying	Holly Shawn Nigel	Stantec
20-Jun-22	16:25	Common Raven	1	Westside land farm	Flying	Holly Shawn Nigel	Stantec
20-Jun-22	11:00	Loon	2	Snap Lake main basin	Flying	Holly Shawn Nigel	Stantec
21-Jun-22	11:23	Yellow Warbler	1	PS3	Calling	Holly Shawn	Stantec
21-Jun-22	11:40	Long-tailed Duck	3	WMP	Swimming	Holly Shawn	Stantec
22-Jun-22	15:21	Unknown Duck	2	Sump 1	Swimming	Roxanne	Stantec
22-Jun-22	15:22	Arctic Hare	1	By sump 1	Hiding/Running	Roxanne	Stantec
24-Jun-22	11:05	Muskox	20+	North of Land farm	-	-	QM
24-Jun-22	11:30	Gull	1	Over WMP	Flying	Roxanne	Stantec
24-Jun-22	12:15	Unknown Duck	2	Sump 1	Swimming	Roxanne	Stantec
24-Jun-22	13:30	Squirrel	1	By sump 3	Dead	Alex (Electrician)	Landmark
25-Jun-22	15:00	Arctic Hare	1	Sump 1	Hiding	Roxanne	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
25-Jun-22	14:35	Bald Eagle	1	Between sump 3 and Snap Lake	Landing/Flying	Roxanne	Stantec
25-Jun-22	14:40	Gull	1	By sump 5	Flying	Roxanne	Stantec
27-Jun-22	16:15	Unknown Duck	2	WMP	Swimming	Roxanne	Stantec
28-Jun-22	14:00	Moose	1	North of landfill	Standing/Grazing	Roxanne	Stantec
28-Jun-22	14:20	Bald eagle	1	Over North Pile	Flying	Roxanne	Stantec
29-Jun-22	9:50	Unknown Raptor	2	Comms tower	Landed	Craig	QM
29-Jun-22	10:00	Muskox	2	West of screener	Standing	Curtis	QM
29-Jun-22	13:42	Arctic Hare	1	By sump 1	Standing	Roxanne	Stantec
30-Jun-22	13:30	Arctic Hare	1	South of airstrip	Standing	Roxanne	Stantec
1-Jul-22	6:20	Red Fox	2	By logistics	-	Riley	Stantec
1-Jul-22	14:00	Goose	8	WMP	Running	Mark Roxanne	Stantec
1-Jul-22	17:30	Arctic Hare	1	NUNA shop	Standing	Roxanne	Stantec
2-Jul-22	10:55	Muskox	15	west of airstrip	Standing/Grazing	Mark Roxanne	Stantec
2-Jul-22	11:20	Muskox	18	North of emulsion plant	Standing/Grazing	Mark Roxanne	Stantec
2-Jul-22	12:00	Unknown Raptor	1	Over camp	Flying	Mark Roxanne	Stantec
2-Jul-22	15:50	Common Raven	2	Over North Pile	Flying	Mark Roxanne	Stantec
4-Jul-22	16:10	Arctic Hare	1	Cell F	Drinking	Roxanne	Stantec
4-Jul-22	17:30	Unknown Duck	1	Snap Lake	Swimming	Roxanne	Stantec
5-Jul-22	15:30	White-crowned Sparrow	3	300k tank farm	Flying/Sitting	Holly Nicola	Stantec
5-Jul-22	15:30	Harris's Sparrow	1	300k tank farm	Flying/Sitting	Holly Nicola	Stantec
6-Jul-22	8:55	Common Merganser	1	Snap Lake	Swimming	Holly Nicola	Stantec
6-Jul-22	8:59	Common Merganser	3	Snap Lake	Swimming	Holly Nicola	Stantec
6-Jul-22	4:45	Unknown Duck	1	Sump 5	Flying	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
6-Jul-22	8:15	American Pipit	2	Sump 1	Flying	Holly Nicola	Stantec
6-Jul-22	15:30	American Pipit	2	West cell divider dyke	Flying	Holly Nicola	Stantec
6-Jul-22	9:30	American Pipit	1	WMP	Flying	Holly Nicola	Stantec
6-Jul-22	9:20	Gull	2	SNP 02-15	Landing	Holly Nicola	Stantec
6-Jul-22	15:30	Arctic Hare	1	Cell A	Resting	Holly Nicola	Stantec
6-Jul-22	15:30	White-crowned Sparrow	1	B501	Herd singing/Calling	Holly Nicola	Stantec
6-Jul-22	15:30	Common Redpoll	1	B501	Herd singing/Calling	Holly Nicola	Stantec
6-Jul-22	15:15	Bank swallow	20	WMP	Flying	Holly Nicola	Stantec
6-Jul-22	15:00	Cliff Swallow	30	Parking lot	Flying	Holly Nicola	Stantec
6-Jul-22	19:30	Moose	1	Path to gazebo	Tracks seen only	Holly	Stantec
7-Jul-22	15:30	Bank swallow	20	WMP	Flying	Holly Nicola	Stantec
7-Jul-22	8:30/15:00	Cliff Swallow	30	Parking lot	Flying	Holly Nicola	Stantec
7-Jul-22	8:55	Bank swallow	1	PS3	Swimming	Holly Nicola	Stantec
7-Jul-22	9:30	Northern pintail	8	WMP	Swimming	Holly Nicola	Stantec
7-Jul-22	9:30	American pipit	1	WMP	Perched	Holly Nicola	Stantec
7-Jul-22	8:45	American Tree Sparrow	1	PS1	Perched	Holly Nicola	Stantec
7-Jul-22	19:00	Harris's Sparrow	1	Gazebo	Sitting	Holly Nicola	Stantec
7-Jul-22	15:00	Ptarmigan	1	Road to QM laydown	Sitting	Holly Nicola	Stantec
7-Jul-22	15:30	Arctic Hare	1	QM Laydown	Hopping	Holly Nicola	Stantec
7-Jul-22	15:30	Arctic Hare	1	PS2	Hopping/Eating	Holly Nicola	Stantec
7-Jul-22	9:25	Semipalmated Plover	1	PS5	Running	Holly Nicola	Stantec
8-Jul-22	9:30	Bank Swallow	20	WMP	Flying	Holly Nicola	Stantec
8-Jul-22	9:30	Cliff Swallow	30	Parking lot	Flying	Holly Nicola	Stantec
8-Jul-22	15:30	Bank swallow	1	Cell E	Flying	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
8-Jul-22	9:45	Unknown Duck	1	PS2	Flying	Holly Nicola	Stantec
8-Jul-22	10:00	Northern pintail	3	WMP	Swimming	Holly Nicola	Stantec
8-Jul-22	15:00	Harris's Sparrow	1	12 million Tanks	Pecking	Holly Nicola	Stantec
8-Jul-22	15:10	Harris's Sparrow	1	300K tank	Flying	Holly Nicola	Stantec
8-Jul-22	9:35	American Pipit	1	PS1	Flying	Holly Nicola	Stantec
8-Jul-22	9:40	Arctic Hare	1	PS2	Drinking puddle	Holly Nicola	Stantec
8-Jul-22	10:00	Arctic Hare	2	PS3/Fuel line mechanical shop	Running	Holly Nicola	Stantec
8-Jul-22	10:00	Yellow Warbler	2	PS3, WMP	Flying	Holly Nicola	Stantec
8-Jul-22	19:15	Loon	1	Snap Lake	Heard only	Holly Nicola	Stantec
9-Jul-22	8:30	Bank swallow	20	WMP	Flying	Holly Nicola	Stantec
9-Jul-22	8:30	Cliff Swallow	30	Parking lot	Flying	Holly Nicola	Stantec
9-Jul-22	14:15	Common Raven	1	North Pile	Landing	Holly Nicola	Stantec
9-Jul-22	15:00	Gull	1	Haul Road	Flying/Sitting	Holly Nicola	Stantec
9-Jul-22	16:00	Unknown Raptor	1	East end of runway	Flying	Holly Nicola	Stantec
10-Jul-22	9:30	Bank swallow	20	WMP	Flying	Holly Nicola	Stantec
10-Jul-22	8:30	Cliff Swallow	30	Parking lot	Flying	Holly Nicola	Stantec
10-Jul-22	15:30	Bank swallow	1	Cell E	Flying	Holly Nicola	Stantec
10-Jul-22	14:30	Bank swallow	15	North Pile	Flying	Holly Nicola	Stantec
10-Jul-22	8:40	Bank swallow	2	Organics Pile by PS2	Flying	Holly Nicola	Stantec
10-Jul-22	8:15	Sparrow	1	Camp door	Flying	Holly Nicola	Stantec
10-Jul-22	8:35	American Pipit	1	PS1	Heard	Holly Nicola	Stantec
10-Jul-22	13:50	Clay-colored Sparrow	2	West cell divider dyke	Chatting	Holly Nicola	Stantec
10-Jul-22	14:08	American Pipit	2	WMP	Flying	Holly Nicola	Stantec
10-Jul-22	16:35	Long-tailed Duck	1	WMP	Swimming/Diving	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
10-Jul-22	16:35	Northern pintail	13	WMP	Swimming	Holly Nicola	Stantec
10-Jul-22	9:00	Gull	1	PS5	Flying	Holly Nicola	Stantec
10-Jul-22	8:50	Yellow Warbler	1	PS3	Flying	Holly Nicola	Stantec
10-Jul-22	14:17	Grizzly Bear	1	West cell divider dyke	Tracks seen only	Holly Nicola	Stantec
10-Jul-22	14:38	Unknown Raptor	1	Snap Lake	Flying	Holly Nicola	Stantec
10-Jul-22	15:50	Muskox	1	Cell C	Tracks seen only	Holly Nicola	Stantec
10-Jul-22	16:35	Arctic Hare	1	Dam 2	Eating	Holly Nicola	Stantec
11-Jul-22	8:30	Bank Swallow	~20	WMP	Flying	Holly Nicola	Stantec
11-Jul-22	8:30	Cliff Swallow	~30	Parking lot	Flying	Holly Nicola	Stantec
11-Jul-22	14:30	Bank swallow	1	Cell E	Flying	Holly Nicola	Stantec
11-Jul-22	14:40	Bank swallow	~15	North Pile	Flying	Holly Nicola	Stantec
11-Jul-22	10:30	Swallow	9	B502	Flying	Holly Nicola	Stantec
11-Jul-22	9:15	White-crowned Sparrow	1	PS1	Flying	Holly Nicola	Stantec
11-Jul-22	9:50	Yellow Warbler	3	PS3	Flying	Holly Nicola	Stantec
11-Jul-22	9:55	Yellow Warbler	1	Mechanic shop	Flying	Holly Nicola	Stantec
11-Jul-22	10:15	Northern Pintail	7	WMP	Swimming	Holly Nicola	Stantec
11-Jul-22	10:15	Long-tailed Duck	1	WMP	Swimming	Holly Nicola	Stantec
11-Jul-22	9:20	Arctic Hare	1	PS2	Running	Holly Nicola	Stantec
11-Jul-22	10:05	Arctic Hare	2	WMP	Eating	Holly Nicola	Stantec
11-Jul-22	5:45	Red Fox	1	Logistic road	Eating a hare	Holly Nicola	Stantec
12-Jul-22	10:05	Bank swallow	~20	WMP	Flying	Holly Nicola	Stantec
12-Jul-22	9:15	Bank swallow	~20	WMP	Flying	Holly Nicola	Stantec
12-Jul-22	8:15	Cliff Swallow	~30	Parking lot	Flying	Holly Nicola	Stantec
12-Jul-22	14:00	Bank swallow	1	Cell E	Flying	Holly Nicola	Stantec
12-Jul-22	15:00	Bank swallow	~15	North Pile	Flying	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
12-Jul-22	8:30	Swallow	1	PS1	Flying	Holly Nicola	Stantec
12-Jul-22	13:30	Semipalmated Plover	2	Dam 1	Running/Singing	Holly Nicola	Stantec
13-Jul-22	11:30	Bank swallow	-15	WMP	Flying	Holly Nicola	Stantec
13-Jul-22	8:45	Cliff Swallow	-30	Parking lot	Flying	Holly Nicola	Stantec
13-Jul-22	14:30	Bank swallow	-15	North Pile	Flying	Holly Nicola	Stantec
13-Jul-22	11:10	Bald Eagle	1	15-Feb	Juvenile Perched	Holly Nicola	Stantec
13-Jul-22	10:45	Common Redpoll	4	PS1	Fighting	Holly Nicola	Stantec
13-Jul-22	11:30	Long-tailed Duck	1	WMP	Swimming	Holly Nicola	Stantec
13-Jul-22	11:30	Northern Pintail	12	WMP	Swimming	Holly Nicola	Stantec
13-Jul-22	-	Muskox	6	King 01	Grazing	Joe Marquardson	Golder
14-Jul-22	9:55	Bank swallow	-15	WMP	Flying	Holly Nicola	Stantec
14-Jul-22	8:30	Cliff Swallow	-30	Parking lot	Flying	Holly Nicola	Stantec
14-Jul-22	15:15	Bank swallow	-15	North Pile	Flying	Holly Nicola	Stantec
14-Jul-22	15:45	Arctic Hare	1	QM laydown	Sitting	Holly Nicola	Stantec
14-Jul-22	16:00	Arctic Hare	1	300k tank farm	Sitting	Holly Nicola	Stantec
14-Jul-22	15:50	Clay-colored Sparrow	2	12M tank farm	Flying	Holly Nicola	Stantec
15-Jul-22	14:44	Muskrat	1	Pond upstream of stream 1	Swimming	Joe Marquardson	Golder
15-Jul-22	8:30	Bank swallow	-15	-	-	Holly Nicola	Stantec
15-Jul-22	8:45	Sparrow	3	PS3	-	Holly Nicola	Stantec
15-Jul-22	14:37	Red Fox (Cross)	1	Snow dump 1	-	Holly Nicola	Stantec
15-Jul-22	14:37	Common Raven	1	Snow dump 1	-	Holly Nicola	Stantec
16-Jul-22	10:10	Sandpiper	2	PS3	Flying/Eating	Holly Nicola	Stantec
16-Jul-22	10:33	Swallow	15	WMP	Flying	Holly Nicola	Stantec
16-Jul-22	11:55	Sandpiper	2	PS3	Grazing	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
16-Jul-22	13:15	Unknown Duck	1	Gazebo	Diving	Holly Nicola	Stantec
16-Jul-22	14:10	Common Merganser	2	Snap Lake	Swimming	Holly Nicola	Stantec
16-Jul-22	14:20	Gull	1	Snap Lake	Landing	Holly Nicola	Stantec
16-Jul-22	15:00	Common Raven	1	North Pile	Flying	Holly Nicola	Stantec
16-Jul-22	15:45	Arctic Hare	1	PS2	Running	Holly Nicola	Stantec
17-Jul-22	8:34	Squirrel	1	Boat house debris	Running	Holly Nicola	Stantec
17-Jul-22	9:33	Sparrow	1	PS3	Flying	Holly Nicola	Stantec
17-Jul-22	10:09	Baird's Sandpiper	3	PS3	Flying	Holly Nicola	Stantec
17-Jul-22	10:10	Unknown Duck	6	PS3	Swimming	Holly Nicola	Stantec
17-Jul-22	11:30	Bank swallow	3	Cell 5 North Pile	Flying	Holly Nicola	Stantec
17-Jul-22	12:09	Gull	2	North Pile	Flying	Holly Nicola	Stantec
17-Jul-22	15:12	Common Merganser	1	PS2	Swimming	Holly Nicola	Stantec
17-Jul-22	15:12	Baird's Sandpiper	1	PS2	Flying	Holly Nicola	Stantec
18-Jul-22	9:17	Arctic Hare	1	PS3	Sitting	Holly Nicola	Stantec
18-Jul-22	9:20	Northern Pintail	2	PS3	Flying	Holly Nicola	Stantec
18-Jul-22	9:20	Baird's Sandpiper	2	PS4	Flying	Holly Nicola	Stantec
18-Jul-22	9:22	Northern pintail	2	PS5	Flying	Holly Nicola	Stantec
18-Jul-22	9:45	Swallow	3	Next to com tower	Flying	Holly Nicola	Stantec
18-Jul-22	9:50	Arctic Hare	1	Next AST	Sitting	Holly Nicola	Stantec
18-Jul-22	10:00	Unknown Duck	-	Main road PS3 to WMP	Walking	Holly Nicola	Stantec
18-Jul-22	10:04	Northern pintail	1	WMP	Flying	Holly Nicola	Stantec
18-Jul-22	10:07	Brown Birds	10	WMP	Eating	Holly Nicola	Stantec
18-Jul-22	11:10	Northern Pintail	8	WMP	Flying	Holly Nicola	Stantec
18-Jul-22	11:36	Red Fox (Cross)	1	-	-	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
19-Jul-22	7:35	Arctic Hare	1	Airport	-	Holly Nicola	Stantec
19-Jul-22	5:00	Swallow	1	TK002	Flying	Holly Nicola	Stantec
19-Jul-22	5:10	Red Fox	1	Kitchen area	Walking	Holly Nicola	Stantec
19-Jul-22	5:10	Arctic Hare	1	-	-	Holly Nicola	Stantec
20-Jul-22	7:00	Common Raven	1	Met hill station	Flying	Shawn	Stantec
20-Jul-22	8:09	Sandpiper	1	PS3	Gazing	Shawn	Stantec
20-Jul-22	8:29	Swallow	20	5-Feb	Flying	Shawn	Stantec
20-Jul-22	14:26	American Robin	1	Land farm	Flying	Shawn	Stantec
21-Jul-22	8:04	Cliff Swallow	2	Main camp	Flying	Christine Shawn	Stantec
21-Jul-22	8:45	Arctic Hare	1	Burn Pit	Sitting/Eating	Christine Shawn	Stantec
21-Jul-22	8:50	Red Fox	1	Waste Management hill	Sitting	Christine Shawn	Stantec
21-Jul-22	9:10	Common Raven	1	Over camp towards Snap Lake	Flying	Christine Shawn	Stantec
21-Jul-22	9:33	Bald eagle	1	Airstrip	Flying	Christine Shawn	Stantec
21-Jul-22	9:45	Sandpiper	15	PS3	Flying	Christine Shawn	Stantec
21-Jul-22	9:45	Unknown Duck	7	PS3	Swimming	Christine Shawn	Stantec
21-Jul-22	9:45	Gull	1	PS3	Landing	Christine Shawn	Stantec
21-Jul-22	10:00	White-crowned Sparrow Juveniles	4	PS1	Feeding	Erica	Stantec
21-Jul-22	10:02	Small Bird	1	C-can	Flying	Christine Shawn	Stantec
21-Jul-22	11:16	Muskox	16	Across pumphouse	Walking	Christine Shawn	Stantec
21-Jul-22	16:30	Sandpiper	2	WMP	Flying	Erica	Stantec
21-Jul-22	16:30	Bald eagle	2	PS4	Flying	Ed	MNJV
21-Jul-22	16:30	Arctic Hare	1	PS3	Gazing	Ed	MNJV
21-Jul-22	16:36	Sparrow	1	300k tank farm	Walking	Christine Shawn	Stantec
22-Jul-22	11:00	Cliff Swallow	-	Main haul road	Hunting	Erica Shawn Christine	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
22-Jul-22	11:15	Unknown Duck	8	WMP	Swimming	Erica Shawn Christine	Stantec
22-Jul-22	11:15	Sparrow	-	WMP	Flying/Landing	Erica Shawn Christine	Stantec
23-Jul-22	8:30	Arctic Hare	1	PS1	Deceased, in water	Erica	Stantec
23-Jul-22	8:40	Sparrow	2	PS2	Flying	Erica	Stantec
23-Jul-22	10:01	Common Raven	1	West cell	Landed on truck	Erica	Stantec
23-Jul-22	15:00	Yellow Warbler	2	WMP - Haul Road	Flying	Erica	Stantec
23-Jul-22	15:00	White-crowned Sparrow Juveniles	4	WMP - Haul Road	Flying	Erica	Stantec
23-Jul-22	15:00	Pintail	10	WMP	Resting/Swimming	Erica	Stantec
23-Jul-22	15:00	Cliff Swallow	15	Camp-WMP-North pile	Flying/Feeding	Erica	Stantec
24-Jul-22	5:45	Loon	-	Snap Lake	Calling	Erica	Stantec
24-Jul-22	9:58	Sparrow	4	Snap Lake dock	Foraging	Christine Shawn	Stantec
24-Jul-22	10:01	Arctic Hare	1	Lake water in-take	Hiding/Eating	Christine Shawn	Stantec
24-Jul-22	10:04	Arctic Hare	1	Sandvik building area	Hiding	Christine Shawn	Stantec
24-Jul-22	10:06	Barn Swallow	5	ATCO trailer near "Sandvik"	Flying (Sitting nest)	Christine Shawn	Stantec
24-Jul-22	16:45	Arctic Hare	1	Cell 5 North Pile	Sitting	Christine Shawn	Stantec
25-Jul-22	8:46	Sparrow	3	PS1	Flying	Christine Shawn	Stantec
25-Jul-22	9:50	Semipalmated Plover	1	WMP	Flying	Christine Shawn	Stantec
25-Jul-22	10:31	American Robin	1	WMP	Flying	Christine Shawn	Stantec
25-Jul-22	10:32	Sandpiper	1	WMP	Walking	Christine Shawn	Stantec
25-Jul-22	11:00	Unknown Duck	7	WMP	Swimming	Christine Shawn	Stantec
25-Jul-22	13:03	Loon	1	Camp	Calling	Christine Shawn	Stantec
25-Jul-22	14:53	Barn Swallow	1	AST	Flying	Christine Shawn	Stantec
26-Jul-22	9:02	Cliff Swallow	-15	Camp parking lot	Flying	Christine Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
26-Jul-22	9:03	Arctic Hare	1	Dock area	Grazing	Christine Shawn	Stantec
26-Jul-22	10:00	Arctic Hare	1	Enviro shop	Juvenile Hiding	Christine Shawn	Stantec
26-Jul-22	12:35	Red Fox (Cross)	1	PS3	Walking	Christine Shawn	Stantec
26-Jul-22	15:55	Arctic Hare	1	330K	Hiding	Christine Shawn	Stantec
26-Jul-22	16:07	White-crowned Sparrow	3	12M tank farm	Flying/Landing	Christine Shawn	Stantec
27-Jul-22	11:00	Arctic Hare	1	PS1	Floating	Christine Shawn	Stantec
27-Jul-22	11:27	Cliff Swallow	-10	Parking lot	Flying	Christine Shawn	Stantec
27-Jul-22	15:22	Sparrow	3	12M tank farm	Flying	Christine Shawn	Stantec
28-Jul-22	13:59	Sparrow	1	Winter road access	Flying	Christine Shawn Roxanne	Stantec
28-Jul-22	14:15	Swallow	-10	Freshwater intake	Flying	Christine Shawn Roxanne	Stantec
28-Jul-22	14:15	Yellow Warbler	1	Freshwater intake	Calling/Flying	Christine Shawn Roxanne	Stantec
28-Jul-22	14:55	Sparrow	1	PS2	Flying	Christine Shawn Roxanne	Stantec
28-Jul-22	15:31	Long-tailed Duck	1	WMP	Swimming	Christine Shawn Roxanne	Stantec
29-Jul-22	11:11	Common Raven	1	Parking lot	Flying	Christine Shawn	Stantec
29-Jul-22	11:35	Long-tailed Duck	1	WMP	Swimming	Christine Shawn	Stantec
30-Jul-22	10:14	Cliff Swallow	-20	WMP	Flying	Christine Shawn	Stantec
30-Jul-22	11:12	Arctic Hare	1	300K tank farm	Hiding	Christine Shawn	Stantec
30-Jul-22	11:45	Northern Pintail	4	WMP	Swimming	Christine Shawn	Stantec
30-Jul-22	11:45	Sandpiper	4	WMP	Hunting	Christine Shawn	Stantec
30-Jul-22	15:04	Gull	1	Snap Lake near gazebo	Flying	Christine Shawn	Stantec
30-Jul-22	16:04	Gull	1	North pile	Flying	Christine Shawn	Stantec
31-Jul-22	8:48	Arctic Hare	1	WMP	Foraging	Christine Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
31-Jul-22	9:06	Arctic Hare	1	Logistic laydown 1	Hiding	Christine Shawn	Stantec
31-Jul-22	9:10	Common Raven	2	Over by crusher	Flying	Christine Shawn	Stantec
31-Jul-22	9:40	Arctic Hare	1	Waste management hill	Hiding	Christine Shawn	Stantec
31-Jul-22	10:09	Sandpiper	2	Sump 1	Hunting	Christine Shawn	Stantec
31-Jul-22	10:10	Gull	1	Sump 1	Flying	Christine Shawn	Stantec
31-Jul-22	10:45	Arctic Hare	1	300K tank	Hiding	Christine Shawn	Stantec
31-Jul-22	14:59	Common Raven	1	North pile	Flying	Christine Shawn	Stantec
31-Jul-22	15:04	Gull	1	North pile	Flying	Christine Shawn	Stantec
1-Aug-22	10:38	Gull	1	Snap lake	Flying	Christine Shawn	Stantec
1-Aug-22	10:48	Loon	2	WMP	Flying	Christine Shawn	Stantec
1-Aug-22	11:12	Long-tailed Duck	4	WMP	Swimming	Christine Shawn	Stantec
1-Aug-22	11:13	Common Raven	1	WMP	Flying	Christine Shawn	Stantec
2-Aug-22	15:47	American Pipit	2	PS2	Flying/Calling	Holly Shawn	Stantec
2-Aug-22	15:55	Gull	1	Snap lake	Flying	Holly Shawn	Stantec
2-Aug-22	16:09	Semipalmated Plover	1	WMP	Flying	Holly Shawn	Stantec
2-Aug-22	16:09	Baird's Sandpiper	3	WMP	Hunting	Holly Shawn	Stantec
2-Aug-22	16:09	Long-tailed Duck	5	WMP	Swimming	Holly Shawn	Stantec
2-Aug-22	16:09	Northern Pintail	10	WMP	Swimming	Holly Shawn	Stantec
2-Aug-22	17:45	Cliff Swallow	2	Parking lot	Flying	Holly Shawn	Stantec
3-Aug-22	9:02	Semipalmated Plover	1	WMA entrance	Flying	Holly Shawn	Stantec
3-Aug-22	9:08	Arctic Hare	2	AN building	Hiding	Holly Shawn	Stantec
3-Aug-22	9:41	Bald eagle	1	North shore Snap Lake	Flying	Holly Shawn	Stantec
3-Aug-22	9:54	Gull	2	Gazebo	Flying	Holly Shawn	Stantec
3-Aug-22	10:08	Sandpiper	30	WMP	Feeding/Flying	Holly Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
3-Aug-22	10:08	Long-tailed Duck	4	WMP	Swimming	Holly Shawn	Stantec
3-Aug-22	10:08	Semipalmated Plover	2	WMP	Flying	Holly Shawn	Stantec
3-Aug-22	10:18	Cliff Swallow	5	Parking lot	Entering nest/Flying	Holly Shawn	Stantec
3-Aug-22	10:37	Cliff Swallow	1	ERT bay	Entering nest/Flying	Holly Shawn	Stantec
3-Aug-22	10:47	Common Raven	1	LV shop	Walking	Holly Shawn	Stantec
3-Aug-22	20:36	Loon	1	-	Calling	Holly	Stantec
4-Aug-22	9:19	Semipalmated Plover	5	WMP	Flying	Shawn	Stantec
4-Aug-22	9:19	Sandpiper	20	WMP	Feeding/Flying	Shawn	Stantec
5-Aug-22	8:10	Sandpiper	1	PS3	Drinking/Feeding	Shawn	Stantec
5-Aug-22	9:14	Sandpiper	2	PS1	Feeding	Shawn	Stantec
5-Aug-22	9:14	Sparrow	1	PS1	Flying	Shawn	Stantec
5-Aug-22	9:26	Long-tailed Duck	5	WMP	Swimming	Shawn	Stantec
5-Aug-22	9:26	Sandpiper	-10	WMP	Feeding	Shawn	Stantec
5-Aug-22	9:26	Semipalmated Plover	1	WMP	Flying	Shawn	Stantec
5-Aug-22	12:45	Sparrow	6	PS1 side of south ditch	Grazing	Shawn	Stantec
5-Aug-22	13:15	Squirrel	1	PS1 side of south ditch	Running/Hiding	Shawn	Stantec
6-Aug-22	10:10	Sandpiper	-10	WMP	Feeding	Shawn	Stantec
6-Aug-22	10:10	Long-tailed Duck	-5	WMP	Swimming	Shawn	Stantec
7-Aug-22	9:20	Yellow Warbler	2	PS3 lakeside	Flying/Calling	Shawn	Stantec
7-Aug-22	9:55	Arctic Hare	1	WMP	Hiding/Walking	Shawn	Stantec
7-Aug-22	9:55	Long-tailed Duck	5	WMP	Swimming	Shawn	Stantec
7-Aug-22	9:55	Sandpiper	-10	WMP	Feeding	Shawn	Stantec
8-Aug-22	9:55	Sparrow	-5	AN road	Flying	Holly Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
8-Aug-22	10:28	Semipalmated Plover	1	PS5	Flying	Holly Shawn	Stantec
8-Aug-22	10:37	Gull	1	Freshwater intake	Flying	Holly Shawn	Stantec
8-Aug-22	10:51	Sandpiper	-10	WMP	Feeding	Holly Shawn	Stantec
8-Aug-22	10:51	Semipalmated Plover	-3	WMP	Flying/Feeding	Holly Shawn	Stantec
8-Aug-22	10:51	Long-tailed Duck	7	WMP	Swimming	Holly Shawn	Stantec
8-Aug-22	10:51	Cliff Swallow	4	WMP	Flying	Holly Shawn	Stantec
9-Aug-22	9:30	Sandpiper	5	WMP	Flying	Holly Nicola	Stantec
9-Aug-22	15:00	Sandpiper	3	Cell E	Flying	Holly Nicola	Stantec
9-Aug-22	16:00	Cliff Swallow	1	Parking lot	Entering nest	Holly Nicola	Stantec
10-Aug-22	10:15	Sandpiper	5	WMP	Swimming	Holly Nicola	Stantec
10-Aug-22	14:15	Sandpiper	1	Cell F	Flying	Holly Nicola	Stantec
10-Aug-22	10:20	Long-tailed Duck	10	WMP	Swimming	Holly Nicola	Stantec
10-Aug-22	13:30	Cliff Swallow	6	ERT bay	Nesting	Holly Nicola	Stantec
10-Aug-22	17:30	Arctic Hare	1	300K tank farm	Sitting	Holly Nicola	Stantec
11-Aug-22	8:45	Gull	1	PS2	Flying	Holly Nicola	Stantec
11-Aug-22	9:15	Unknown Duck	4	PS5	Flying	Holly Nicola	Stantec
11-Aug-22	9:30	Gull	1	PS5	Flying	Holly Nicola	Stantec
11-Aug-22	9:30	Long-tailed Duck	7	WMP	Swimming	Holly Nicola	Stantec
11-Aug-22	9:30	Scaup	1	WMP	Swimming	Holly Nicola	Stantec
11-Aug-22	10:30	Cliff Swallow	3	Parking lot	Entering nest	Holly Nicola	Stantec
11-Aug-22	10:45	Cliff Swallow	4	ERT bay	Entering nest	Holly Nicola	Stantec
11-Aug-22	14:00	Yellow Warbler	2	Cell 1	Flying/Sitting	Holly Nicola	Stantec
11-Aug-22	14:00	Red Fox (Cross)	1	Behind PS5	Running	Holly Nicola	Stantec
12-Aug-22	8:45	Arctic Hare	1	Hazardous waste	Hopping	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
12-Aug-22	8:45	Gull	1	Hazardous waste	Flying	Holly Nicola	Stantec
12-Aug-22	14:30	Arctic Hare	1	ERT bay	Resting	Holly Nicola	Stantec
12-Aug-22	14:35	Cliff Swallow	6	ERT bay	Entering/Exiting nest	Holly Nicola	Stantec
13-Aug-22	10:00	Long-tailed Duck	5	WMP	Swimming	Holly Nicola	Stantec
13-Aug-22	10:00	Scaup	2	WMP	Swimming	Holly Nicola	Stantec
13-Aug-22	10:00	Northern Pintail	3	WMP	Swimming	Holly Nicola	Stantec
13-Aug-22	14:00	Common Raven	2	North pile	Sitting	Holly Nicola	Stantec
13-Aug-22	14:15	American pipit	1	Bog land farm West	Sitting	Holly Nicola	Stantec
13-Aug-22	16:00	Arctic Hare	1	Camp (under stairs)	Sitting/Hopping	Holly Nicola	Stantec
14-Aug-22	9:40	Arctic Hare	1	Road to PS1 to PS2	Running	Holly Nicola	Stantec
14-Aug-22	9:50	Yellow Warbler	1	PM 002	Flying	Holly Nicola	Stantec
14-Aug-22	10:00	Long-tailed Duck	3	WMP	Swimming	Holly Nicola	Stantec
14-Aug-22	10:00	Scaup	1	WMP	Swimming	Holly Nicola	Stantec
14-Aug-22	10:00	Northern pintail	7	WMP	Swimming	Holly Nicola	Stantec
14-Aug-22	10:00	Unknown Duck	4	WMP	Swimming	Holly Nicola	Stantec
14-Aug-22	15:00	Common Merganser	1	Snap Lake	Swimming	Holly Nicola	Stantec
15-Aug-22	8:00	Ptarmigan	1	Emulsion plant	Heard calling	Holly Nicola	Stantec
15-Aug-22	11:30	Gull	1	Gazebo	Sitting	Holly Nicola	Stantec
15-Aug-22	9:30	Long-tailed Duck	3	WMP	Swimming	Holly Nicola	Stantec
15-Aug-22	9:30	Northern pintail	7	WMP	Swimming	Holly Nicola	Stantec
15-Aug-22	9:30	Red-throated Loon	2	DF012	Heard calling	Holly Nicola	Stantec
15-Aug-22	14:00	Common Loon	1	Snap Lake	Heard calling	Holly Nicola	Stantec
16-Aug-22	9:15	Northern pintail	10	WMP	Swimming	Holly Nicola	Stantec
16-Aug-22	9:15	Long-tailed Duck	2	WMP	Swimming	Holly Nicola	Stantec
16-Aug-22	9:15	Arctic Hare	1	Pumphouse @WMP	Resting	Holly Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
16-Aug-22	9:30	Sparrow	12	Burn Pit	Flying	Holly Nicola	Stantec
17-Aug-22	8:45	Unknown Duck	6	PS2	Swimming	Christine Nicola	Stantec
17-Aug-22	9:05	Unknown Duck	4	WMP	Swimming	Christine Nicola	Stantec
17-Aug-22	9:05	Yellow Warbler	1	WMP	Flying	Christine Nicola	Stantec
17-Aug-22	15:30	Sparrow	5	AN Building	Flying	Christine Nicola	Stantec
18-Aug-22	9:40	Common Raven	1	Parking lot	Flying	Christine Nicola	Stantec
18-Aug-22	10:00	Unknown Duck	12	WMP	Swimming	Christine Nicola	Stantec
19-Aug-22	9:55	Sparrow	2	PS2	Flying	Christine Nicola	Stantec
19-Aug-22	14:50	Sparrow	4	North pile	Flying	Christine Nicola	Stantec
19-Aug-22	10:00	Gull	1	Snap Lake	Flying	Christine Nicola	Stantec
19-Aug-22	10:15	Unknown Duck	6	WMP	Swimming	Christine Nicola	Stantec
20-Aug-22	8:45	Sparrow	1	Crusher	Flying	Christine Nicola	Stantec
20-Aug-22	14:30	Gull	2	Snap Lake	Flying	Christine Nicola	Stantec
20-Aug-22	10:30	Gull	6	WMP	Swimming	Christine Nicola	Stantec
20-Aug-22	9:15	Unknown Duck	3	PS3	Swimming	Christine Nicola	Stantec
20-Aug-22	9:00	Arctic Hare	1	PS5	Hopping/Running	Christine Nicola	Stantec
20-Aug-22	15:30	Arctic Hare	1	AST tanks	Resting	Christine Nicola	Stantec
20-Aug-22	11:40	Common Raven	1	North pile	Resting	Christine Nicola	Stantec
21-Aug-22	8:30	Squirrel	1	AN building	Running	Christine Nicola	Stantec
21-Aug-22	10:00	Unknown Duck	6	WMP	Swimming	Christine Nicola	Stantec
21-Aug-22	14:30	Common Raven	2	North pile	Resting	Christine Nicola	Stantec
21-Aug-22	9:20	Arctic Hare	1	Enviro shop	Sitting	Christine Nicola	Stantec
22-Aug-22	10:00	Squirrel	1	AN Building	Running	Christine Nicola	Stantec
22-Aug-22	9:05	Unknown Duck	6	WMP	Swimming	Christine Nicola	Stantec
22-Aug-22	9:30	Sparrow	6	Land farm	Flying	Christine Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
23-Aug-22	8:50	Unknown Duck	6	WMP	Swimming	Christine Nicola	Stantec
23-Aug-22	9:00	Arctic Hare	1	Enviro shop	Resting	Christine Nicola	Stantec
23-Aug-22	9:05	Arctic Hare	1	LV shop	Running/hopping	Christine Nicola	Stantec
23-Aug-22	10:05	Sparrow	2	North pile	Flying	Riley Nader	Stantec
23-Aug-22	14:00	Sparrow	3	Snap Lake	Flying	Mark Nicola	Stantec
25-Aug-22	14:15	Unknown Duck	1	AN building/Emulsion	Flying	Mark Nicola	Stantec
26-Aug-22	13:30	Sparrow	8	Between north pile and Snap Lake	Flying	Mark Nicola	Stantec
26-Aug-22	15:40	Common Raven	1	Utilities building	Flying	Mark Nicola	Stantec
26-Aug-22	16:15	Sparrow	1	Comms building	Resting	Mark Nicola	Stantec
27-Aug-22	9:00	Sparrow	2	North ditch rd.	Flying	Mark Nicola	Stantec
28-Aug-22	15:00	Sparrow	1	Dam 1	Flying	Mark Nicola	Stantec
28-Aug-22	15:15	Hare	1	Dam 1	Resting	Mark Nicola	Stantec
28-Aug-22	15:30	Unknown Duck	5	Dam 1	Resting	Mark Nicola	Stantec
29-Aug-22	7:45	Swallow	4	Dam 1	Flying	Mark Nicola	Stantec
30-Aug-22	-	Arctic Hare	1	Camp	Running	Mark Nicola	Stantec
30-Aug-22	-	Swallow	1	Camp	Feeding	Mark Nicola	Stantec
30-Aug-22	-	Swallow	1	Sump 1	Resting	Mark Nicola	Stantec
30-Aug-22	-	Unknown Duck	5	Sump 3	Resting	Mark Nicola	Stantec
31-Aug-22	14:40	Unknown Duck	5	Sump 3	Swimming	Christine Shawn	Stantec
1-Sep-22	14:43	Sparrow	1	Airstrip	Flying	Christine Shawn	Stantec
3-Sep-22	10:35	Sparrow	1	Road to AN building	Flying	Christine Shawn	Stantec
3-Sep-22	10:54	Sparrow	1	Warehouse	Flying	Christine Shawn	Stantec
3-Sep-22	10:56	Sparrow	1	Comm tour	Flying	Christine Shawn	Stantec
4-Sep-22	11:02	Squirrel	1	Tank farm area	Running	Christine Shawn	Stantec
4-Sep-22	19:00	Common Raven	1	Gazebo	Flying	Tim	QM



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
4-Sep-22	-	Arctic Hare	1	New access road	Hiding	Tristan	Terra
5-Sep-22	14:05	Common Raven	1	LV shop	Flying	Christine Shawn	Stantec
5-Sep-22	16:35	Arctic Hare	1	New potable	Running	Christine Shawn	Stantec
7-Sep-22	9:24	Goose	30	Tank farm	Flying	Christine Shawn	Stantec
7-Sep-22	12:30	Common Raven	1	Tank farm	Flying	Christine Shawn	Stantec
7-Sep-22	12:35	Goose	300	Tank farm	Flying	Christine Shawn	Stantec
8-Sep-22	9:26	Goose	10	AN building	Flying	Christine Shawn	Stantec
8-Sep-22	14:50	Unknown Duck	2	WMP	Swimming	Christine Shawn	Stantec
9-Sep-22	15:25	Arctic Hare	1	330k tanks	Resting	Christine Shawn	Stantec
9-Sep-22	16:27	Arctic Hare	1	PM station	Hiding	Christine Shawn	Stantec
10-Sep-22	9:25	Unknown Duck	5	WMP	Swimming	Christine Shawn	Stantec
10-Sep-22	9:50	Sparrow	1	Core Shack/PS3	Flying	Christine Shawn	Stantec
10-Sep-22	9:58	Sparrow	1	Tank farm	Flying	Christine Shawn	Stantec
11-Sep-22	11:53	Unknown Duck	5	WMP	Swimming	Christine Shawn	Stantec
12-Sep-22	14:43	Common Raven	1	Parking lot	Flying	Christine Shawn	Stantec
14-Sep-22	9:30	Arctic Hare	1	AM building	Hiding	Shawn Nicola	Stantec
14-Sep-22	15:50	Sparrow	1	Boat launch	Flying	Shawn Nicola	Stantec
14-Sep-22	16:00	Common Raven	1	List post near warehouse	Sitting	Shawn Nicola	Stantec
14-Sep-22	16:05	Unknown Duck	2	WNP	Swimming/Feeding	Shawn Nicola	Stantec
15-Sep-22	11:27	Unknown Duck	2	WMP	Swimming	Shawn Nicola	Stantec
15-Sep-22	12:04	Arctic Hare	1	330k tanks	Running	Shawn Nicola	Stantec
15-Sep-22	15:55	Common Raven	1	North Pile	Flying/Calling	Shawn Nicola	Stantec
15-Sep-22	16:30	Sparrow	1	South ditch tree	Sitting	Shawn Nicola	Stantec
16-Sep-22	9:10	Unknown Duck	2	WMP	Swimming	Shawn Nicola	Stantec
16-Sep-22	9:10	Sparrow	2	Waste management hill	Flying	Shawn Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
16-Sep-22	9:18	Ptarmigan	1	AN building	Flying	Shawn Nicola	Stantec
16-Sep-22	9:50	Sparrow	1	Old powerhouse	Flying	Shawn Nicola	Stantec
16-Sep-22	15:30	Sparrow	4	Cell LF	Flying	Shawn Nicola	Stantec
17-Sep-22	9:25	Unknown Duck	2	WMP	Swimming	Shawn Nicola	Stantec
17-Sep-22	9:50	Unknown Duck	6	WMP	Swimming	Shawn Nicola	Stantec
17-Sep-22	10:35	Arctic Hare	2	PM2.5	Resting/Hiding	Shawn Nicola	Stantec
18-Sep-22	16:05	Unknown Duck	5	WMP	Swimming	Shawn Nicola	Stantec
18-Sep-22	16:10	Sparrow	2	Airstrip East side	Flying	Shawn Nicola	Stantec
18-Sep-22	16:12	Sparrow	6	Airstrip West side	Flying	Shawn Nicola	Stantec
19-Sep-22	9:30	Unknown Duck	4	WMP	Swimming	Shawn Nicola	Stantec
20-Sep-22	9:30	Common Raven	1	Parking lot	Flying	Shawn Nicola	Stantec
22-Sep-22	13:37	Squirrel	1	Bulk mine waste pad	Running	Nicola Mark	Stantec
23-Sep-22	11:30	Common Raven	3	Parking lot	Flying	Nicola Mark	Stantec
26-Sep-22	8:25	Squirrel	1	Enviro shack	Running	Nicola Mark	Stantec
29-Sep-22	10:40	Sparrow	8	South of North Pile	Flying	Nicola	Stantec
29-Sep-22	10:55	Sparrow	12	Boat launch	Flying	Nicola	Stantec
29-Sep-22	17:45	Common Raven	1	Parking lot	Flying	Nicola	Stantec
30-Sep-22	9:50	Sparrow	12	Incinerator	Flying	Nicola	Stantec
30-Sep-22	10:27	Sparrow	15	Boat launch	Flying	Nicola	Stantec
30-Sep-22	10:55	Sparrow	6	North ditch road	Flying	Nicola	Stantec
30-Sep-22	15:50	Common Raven	1	Laydown 1	Flying	Nicola	Stantec
30-Sep-22	16:00	Arctic Hare	1	Tank farm	Hiding	Nicola	Stantec
30-Sep-22	16:10	Squirrel	1	Warehouse	Running	Nicola	Stantec
30-Sep-22	16:15	Sparrow	6	Warehouse	Flying	Nicola	Stantec
1-Oct-22	11:00	Sparrow	50	Road to AN building	Flying/Feeding	Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
2-Oct-22	9:15	Common Raven	1	Parking lot	Flying	Nicola	Stantec
2-Oct-22	9:30	Arctic Hare	2	Tank farm	Hiding	Nicola	Stantec
3-Oct-22	8:50	Common Raven	1	Parking lot	Flying	Nicola	Stantec
3-Oct-22	11:35	Sparrow	20	Hill met station	Feeding/Flying	Nicola	Stantec
5-Oct-22	9:55	Sparrow	10	Sump 2	Flying	Christine Shawn	Stantec
5-Oct-22	10:00	Sparrow	5	AN road	Flying	Christine Shawn	Stantec
5-Oct-22	10:12	Ptarmigan	3	Airport	Feeding/Hiding	Christine Shawn	Stantec
5-Oct-22	14:50	Unknown Raptor	1	Dam 1/WMP	Flying/Hunting	Christine Shawn	Stantec
5-Oct-22	15:31	Common Raven	5	Service building	Flying/Sitting	Christine Shawn	Stantec
5-Oct-22	15:34	Snow bunting	50	Dam 1/WMP	Flying/Feeding	Christine Shawn	Stantec
6-Oct-22	10:29	Squirrel	1	10million tank	Running	Christine Shawn	Stantec
6-Oct-22	15:50	Common Raven	2	Parking lot	Flying	Christine Shawn	Stantec
7-Oct-22	9:11	Snow bunting	40	AN road	Flying/Feeding	Christine Shawn	Stantec
7-Oct-22	15:54	Snow bunting	1	South ditch	Flying	Christine Shawn	Stantec
7-Oct-22	16:21	Ptarmigan	20	West cell divider dyke	Hiding/Feeding	Christine Shawn	Stantec
7-Oct-22	16:37	Snow bunting	2	Waste storage area	Flying	Christine Shawn	Stantec
8-Oct-22	10:22	Red Fox	1	Quarry	Running	Christine Shawn	Stantec
8-Oct-22	10:59	Snow bunting	4	WMP	Flying	Christine Shawn	Stantec
8-Oct-22	14:14	Common Raven	8	LV shop	Sitting/Playing	Christine Shawn	Stantec
8-Oct-22	15:45	Ptarmigan	10	Across from waste storage	Resting/Feeding	Christine Shawn	Stantec
9-Oct-22	9:37	Common Raven	1	Modular	Flying	Christine Shawn	Stantec
9-Oct-22	9:46	Ptarmigan	20	AN road	Resting/Feeding	Christine Shawn	Stantec
9-Oct-22	10:39	Small brown bird	20	WMP	Resting/Feeding	Christine Shawn	Stantec
9-Oct-22	10:50	Squirrel	1	Dam 1/WMP	Eating	Christine Shawn	Stantec
9-Oct-22	10:58	Arctic Hare	1	Dam 1/WMP	Hiding	Christine Shawn	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
9-Oct-22	10:58	Common Raven	1	Dam 1/WMP	Flying	Christine Shawn	Stantec
9-Oct-22	15:10	Common Raven	5	North pile cell	Resting	Christine Shawn	Stantec
9-Oct-22	15:25	Ptarmigan	15	Airstrip	Resting/Feeding	Christine Shawn	Stantec
10-Oct-22	10:14	Ptarmigan	50	Incinerator	Resting	Christine Shawn	Stantec
10-Oct-22	10:48	Common Raven	1	Tank farm	Flying	Christine Shawn	Stantec
11-Oct-22	11:03	Ptarmigan	6	AN Road	Flying	Christine Shawn	Stantec
11-Oct-22	11:05	Snow bunting	2	AN road	Flying	Christine Shawn	Stantec
11-Oct-22	16:00	Snow bunting	15	Dam 1	Feeding	Erica Shawn	Stantec
12-Oct-22	11:24	Snow bunting	20	FAR	Resting	Erica Shawn	Stantec
12-Oct-22	12:20	Snow bunting	20	Waste management	Resting	Erica Shawn	Stantec
13-Oct-22	13:30	Red Fox (cross)	1	Cell 2	Walking	Erica Shawn	Stantec
14-Oct-22	13:20	Arctic Hare	1	330k tanks	Hiding	Riley	Stantec
16-Oct-22	13:58	Snow bunting	1	AN road	Flying	Erica Shawn	Stantec
16-Oct-22	14:18	Arctic Hare	1	330k tanks	Hiding	Erica Shawn	Stantec
16-Oct-22	14:35	Common Raven	1	WTP	Flying	Erica Shawn	Stantec
17-Oct-22	16:00	Arctic Hare	1	Tank farm	Hiding	Erica Shawn	Stantec
17-Oct-22	16:10	Arctic Hare	1	AN building	Hiding	Erica Shawn	Stantec
18-Oct-22	8:45	Red fox	1	WMP	Searching	-	MNJV
19-Oct-22	14:40	Arctic Hare	1	AN building	Hiding	Mark	Stantec
20-Oct-22	15:23	Arctic Hare	1	FAR	Resting	Mark Shawn	Stantec
20-Oct-22	15:36	Snow bunting	1	12million tank	Flying	Mark Shawn	Stantec
21-Oct-22	14:00	Arctic Hare	3	Tank farm	Hiding/Resting	Mark Shawn	Stantec
21-Oct-22	15:35	Snow bunting	10	WMP	Flying	Mark Shawn	Stantec
24-Oct-22	14:20	Red Fox	1	Past explosive gate	Crossing	Vida	DeBeers
27-Oct-22	14:52	Red Fox	1	Snow dump sump 1	Walking	Christine Mark	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
28-Oct-22	-	Ptarmigan	1	South ditch	Standing	Christine Mark	Stantec
29-Oct-22	15:04	Ptarmigan		East ISP	Flying	Alex	QM
29-Oct-22	15:10	Red Fox	1	Laydown 1	Walking	Alex	QM
29-Oct-22	15:50	Common Raven	1	North ditch	Flying	Christine Mark	Stantec
30-Oct-22	15:44	Red Fox	1	Access road -> Ice Road	Walking	Christine Mark	Stantec
31-Oct-22	16:03	Red Fox	1	PM2.5	Walking	Christine Mark	Stantec
31-Oct-22	16:09	Common Raven	1	LV shop	Flying	Christine Mark	Stantec
31-Oct-22	16:10	Common Raven	1	North pile	Flying	Christine Mark	Stantec
31-Oct-22	16:11	Arctic Hare	1	12million tank	Sitting	Christine Mark	Stantec
31-Oct-22	16:14	Common Raven	1	WMP	Flying	Christine Mark	Stantec
31-Oct-22	16:21	Common Raven	3	Landfill	Standing	Christine Mark	Stantec
1-Nov-22	14:05	Arctic Hare	1	12million tank	Sitting	Christine Nicola	Stantec
1-Nov-22	14:10	Common Raven	1	LV fuel	Flying	Christine Nicola	Stantec
2-Nov-22	11:12	Common Raven	1	Core shack	Flying	Christine Nicola	Stantec
2-Nov-22	RN	Red Fox	1	Cell 2	Walking	Scott	MNJV
3-Nov-22	8:20	Ptarmigan	12	Road to FAR	Flying	Alex	QM
3-Nov-22	14:30	Ptarmigan	12	Road to FAR	Flying	Alex	QM
4-Nov-22	7:00	Ptarmigan	2	Parking lot	Flying	Alex	QM
5-Nov-22	9:12	Arctic Hare	1	Tank farm	Sitting/Resting	Christine	Stantec
5-Nov-22	11:30	Caribou	60	Across FAR	60+ Walking	Alex	QM
5-Nov-22	11:30	Ptarmigan	6	Laydown 1	Walking	Christine Nicola	Stantec
5-Nov-22	13:26	Red Fox	1	North ditch	Walking	Oualid	Stantec
6-Nov-22	14:19	Caribou	60	Near logistics	60+ Walking	Christine Nicola	Stantec
6-Nov-22	15:10	Caribou	3	Near AN building	Eating	Christine Nicola	Stantec
6-Nov-22	15:30	Common Raven	3	Camp	Flying	Christine Nicola	Stantec



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Date	Time	Species	Number	Location	Behaviour/Activity	Name	Company
7-Nov-22	10:46	Red Fox	1	North ditch	Walking	Christine Nicola	Stantec
8-Nov-22	14:35	Ptarmigan	30+	Parking lot	Walking/Sitting	Christine Nicola	Stantec
9-Nov-22	16:07	Ptarmigan	2	North ditch road	Walking	Christine Nicola	Stantec
10-Nov-22	8:00	Ptarmigan	1	Runway	Walking	Christine Nicola	Stantec
10-Nov-22	14:00	Ptarmigan	1	Tank farm	Walking	Christine Nicola	Stantec
10-Nov-22	17:15	Red Fox	1	Runway	Walking	Christine Nicola	Stantec
11-Nov-22	7:30	Brown birds	10+	Airstrip	Flying across runway	Christine Nicola	Stantec
11-Nov-22	14:36	Ptarmigan	12+	Behind WTM	Fluttering	Christine Nicola	Stantec
12-Nov-22	13:30	Ptarmigan	12+	Dam 1	Walking	Christine Nicola	Stantec
12-Nov-22	14:30	Red Fox	1	Main road	Walking	Christine Nicola	Stantec
13-Nov-22	9:53	Caribou	12	Snap Lake	12 +Walking	Christine Nicola	Stantec
13-Nov-22	15:00	Caribou	60	Runway	60 + Walking	Christine Nicola	Stantec
13-Nov-22	15:53	Common Raven	1	WTP	Flying	Christine Nicola	Stantec
13-Nov-22	16:02	Arctic Hare	1	Main road	Jumping	Christine Nicola	Stantec
14-Nov-22	8:15	Caribou	12	Airstrip	~ 12 Walking	Christine Nicola	Stantec
14-Nov-22	14:36	Red Fox	1	Cell 5 North Pile	Walking	Christine Nicola	Stantec
17-Nov-22	15:30	Common Raven	2	AN building	Flying	Shawn Nicola	Stantec
17-Nov-22	15:45	Common Raven	3	Camp	Flying	Shawn Nicola	Stantec
19-Nov-22	14:30	Ptarmigan	4	Behind camp	Foraging	Shawn Nicola	Stantec
19-Nov-22	14:35	Common Raven	1	Camp	Flying	Shawn Nicola	Stantec
24-Nov-22	14:56	Common Raven	1	WMP	Flying	Shawn Nicola	Stantec
25-Nov-22	15:14	Common Raven	1	Hill met station	Flying	Shawn Nicola	Stantec
26-Nov-22	14:55	Common Raven	1	Camp	Flying	Shawn Nicola	Stantec
28-Nov-22	-	Red Fox	1	Cell 5 North Pile	Walking	TJ	DeBeers
28-Nov-22	15:33	Common Raven	4	LV shop	Flying	Mark Shawn	Stantec



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29-Nov-22	14:45	Common Raven	1	WMP	Flying	Shawn	Stantec
30-Nov-22	14:34	Common Raven	1	LV shop	Flying	Mark Shawn	Stantec
7-Dec-22	14:50	Common Raven	1	Parking lot	Flying	Christine	Stantec
7-Dec-22	-	Ptarmigan	3	North ditch	Walking	-	NR
8-Dec-22	9:30	Ptarmigan	2	FAR	Fluttering	Alex	QM
10-Dec-22	9:45	Common Raven	1	FAR	Fluttering	Alex	QM
10-Dec-22	14:45	Common Raven	1	Tank farm	Landing	Christine Nicola	Stantec
11-Dec-22	13:10	Common Raven	2	Parking lot	Squawking	Alex/Scott	QM/MNJV
13-Dec-22	15:00	Common Raven	1	LV shop	Landing	Christine	Stantec
14-Dec-22	10:00	Ptarmigan	25	Main road	Sitting	Nicola	Stantec
15-Dec-22	14:00	Common Raven	1	Camp	Flying	Christine	Stantec
16-Dec-22	13:06	Caribou	20	Snap Lake	15-25 Walking	Bill	MNJV
16-Dec-22	13:30	Ptarmigan	1	Main road	Flying	Nicola	Stantec
30-Dec-22	16:39	Wolf	1	Airstrip	Walking (tracks only)	Matt	MNJV
31-Dec-22	15:00	Ptarmigan	2	FAR	Hiding/Flying	Matt	MNJV
31-Dec-22	-	Gyrfalcon	1	FAR	Hunting	Matt	MNJV
31-Dec-22	-	Red Fox	1	FAR	Hunting	Matt	MNJV

