

ANNUAL REPORT:
2BM-ULU2030
20EN001
Ulu Gold Project
Exploration and Progressive
Reclamation

Kitikmeot Region, Nunavut

March 2024



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1. TABLE OF CONCORDANCE: Ulu Annual Reporting Requirements, by Authorization

Table 1: 20EN001 and 2BM-ULU2030 Reporting Requirements.

Corresponding Authorization Item/ Paragraph #	Term	Corresponding Report Section
<i>20EN001</i>		
4	4. The Proponent shall submit a comprehensive annual report with copies provided to the Nunavut Impact Review Board, by March 31 st of each year of permitted activities beginning March 31, 2022. The annual report must contain at least the following information: a) A summary of activities undertaken for the year, including but not limited to:	2.1
4a	▪ a map showing the approximate location of drill sites;	NA
	▪ a description of local hires, contracting opportunities and initiatives;	5
	▪ a map showing the location of the fuel cache(s);	Figure 1
	▪ flight altitudes, frequency of flights and flight routes;	2.4
	▪ site photos;	Appendix C
	▪ any reclamation work undertaken;	4.4
4b	A work plan for the following year, including any progressive reclamation work to be undertaken;	8
4c	A summary of community consultations undertaken throughout the year, providing copy of materials presented to community members, a description of issues and concerns raised, discussions with community members and advice offered to the company as well as any follow-up actions that were required or taken to resolve any concerns expressed about the project proposal;	6
4d	A log of instances in which community residents occupy or transit through the project area for the purpose of traditional land use or harvesting. This log should include the location and number of people encountered, activity being undertaken (e.g., berry picking, fishing, hunting, camping, etc.), date and time; and any mitigation measures or adaptive management undertaken to prevent disturbance;	4.14
4e	A discussion of issues related to wildlife and environmental monitoring, including the number of cease-work orders required as a result of proximity to caribou and any other wildlife;	4.11

4f	A brief summary of Wildlife Mitigation and Monitoring Plan results as well as any mitigation actions that were undertaken. In addition, the Proponent shall maintain a record of wildlife observations while operating within the project area and include it as part of the summary report. The summary report based on wildlife observations should include the following:	4.11 <i>Appendix E</i>
	1. Locations (i.e., latitude and longitude), species, number of animals, a description of the animal activity, and a description of the gender and age of animals if possible. 2. Prior to conducting project activities, the Proponent should map the location of any sensitive wildlife sites such as denning sites, calving areas, caribou crossing sites, and raptor nests in the project area, and identify the timing of critical life history events (i.e., calving, mating, denning and nesting). 3. Additionally, the Proponent should indicate potential impacts from the project, and ensure that operational activities are managed and modified to avoid impacts on wildlife and sensitive sites.	4.11 <i>Appendix E</i>
4g	An analysis of the effectiveness of mitigation measures for wildlife;	4.11
4h	Summary of any heritage sites encountered during the exploration activities, any follow-up action or reporting required as a result and how project activities were modified to mitigate impacts on the heritage sites;	4.15
4i	Summary of its knowledge of Inuit land use in/near the project area and explain how project activities were modified to mitigate impacts on Inuit land use; and	4
4j	A summary of how the Proponent has complied with conditions contained within this Screening Decision, and all conditions as required by other authorizations associated with the project proposal.	4 <i>Appendix B Table 3</i>
2BM-ULU2030		
B10	The Licensee shall file an Annual Report on the appurtenant undertaking with the Board no later than March 31 of the year following the calendar year being reported, which shall contain the following information:	2.1
B10a	tabular summaries and analysis of all data collected under the Monitoring Program in Part J;	4.9 Table 5 <i>Appendix D</i>
B10b	a summary of any construction work, modification and/or major maintenance work carried out on the facilities related to Water use and Waste deposit, including all associated structures, and an outline of any work anticipated for the next year;	4.1 8
B10c	results for samples collected on ore and waste rock as referred to in Part D, Item 15;	4.6.2
B10d	a list of unauthorized discharges and follow-up action taken;	4.10 <i>Appendix A</i>
B10e	updates or revisions to the Waste Management Plan, Spill Response Plan, Interim Closure and Reclamation Plan, and any other plans associated with the Licence. Revisions may be subject to Board approval;	7

B10f	any updates to the estimate of the restoration liability, as required under Part B, Item 5 and 6, based upon the results of the restoration research, project development monitoring, and any modifications to the site plan;	4.4
B10g	a brief description of follow-up action taken to address concerns detailed in inspection and compliance reports prepared by the Inspector;	4.13
B10h	report all artesian flow occurrences as required under Part F, Item 3;	4.10
B10i	a summary of hazardous materials shipped out, the treatment received, and the location of the approved treatment facility to which they were sent;	4.4.2
B10j	a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;	4.1 4.2 8
B10k	a summary of any specific studies or reports requested by the Board, and a brief description of any future studies planned or proposed;	4.13
B10l	a public consultation/participation report describing consultation with local organizations and residents of the nearby communities, if any were conducted; and	6
B10m	any other details on Water use or Waste disposal requested by the Board by the 1st of November of the year being reported.	4.13

2. INTRODUCTION

2.1 PURPOSE

The purpose of this document is to fulfill annual reporting requirements pursuant to project authorizations for the Ulu Gold Project (Ulu), specifically the Nunavut Impact Review Board Screening Decision 20EN001 and Nunavut Water Board Water (NWB) Licence 2BM-ULU2030, and to provide an outline of activities undertaken and reportable monitoring results. The NWB Annual Report Standard Form can be found in Appendix A along with supporting and additional information where required. Coordinated reporting for both the NIRB and the NWB is provided for transparency and efficiency.

The Ulu Gold Project is comprised of the Crown-granted Ulu Mining Lease, L-3563, and the Hood River Mineral Exploration Agreement held with Nunavut Tunngavik Inc (NTI), agreement number HoodRiver-001. Both components of the Ulu Gold Project surface rights are regulated by the Kitikmeot Inuit Association (KIA). The Roma Project is located approximately 40 km north of the Ulu Gold Project in the High Lake Greenstone Belt. The Roma Project comprises Crown claims and a Mineral Exploration Agreement with NTI, which covers approximately 14,000 ha.

Activities in 2023 were licenced by the Kitikmeot Inuit Association (KIA) under one licence, while there is one water licence for Hood River and Roma activities (2BE-HRP1924) and a separate water license for Ulu (2BM-ULU2030). Ulu activities were coordinated with works undertaken at Hood River, with the Ulu camp and infrastructure supporting Hood River and more regional exploration. Hood River and Ulu are discussed herein to inform an understanding of local site activities and program context.

The Auma Prospect, formerly known as Bamako showing (Claim name: BAM01, Unit claim: 103030) on Inuit Owned Lands (IOL), parcel CO-26, was staked by Blue Star Gold Corp. in June 2023 as part of the Roma Project. The Auma Prospect is located on the western margin of the High Lake Greenstone Belt and has a size of 614.378 ha

The High01 Prospect, formerly known as HI01 showing (Claim name: HIGH01, Unit claim: 103529) was staked by Blue Star Gold Corp. in November 2023 as part of the Roma Project. The High01 Prospect on Crown Lands is located west of the High Lake Greenstone Belt and has a size of 512.381 ha. Historical work includes airborne electromagnetics (AEM), vertical loop EM (VLEM), mapping, prospecting and two drill holes.

Activities undertaken at Hood River, Roma and Auma Prospect were limited to surface exploration and logistics. No work has been undertaken on the HI01 Prospect.

This report has been submitted on or before March 31, 2024.

2.2 SITE LOCATION AND DESCRIPTION

The activities licensed under KTL311C013 occurred on Inuit Owned Lands (IOL) parcel CO-20, CO-26, CO-28 and CO-29 in areas referred to as the Ulu Gold Project (Ulu), the Roma Gold Project (Roma), and the recently staked Auma Prospect, which included surface exploration, camp operation, quarrying, fuel storage and progressive reclamation. Activities in 2023 occurred pursuant to authorizations listed in Table 3. Esker quarrying was undertaken at Ulu under KTCA20Q004. Additional work was undertaken on Crown land, Ulu project and Roma project, and is included in Table 1 for completeness.

All exploration activities undertaken this season were based out of the Ulu camp, with ground geophysics, mapping and prospecting occurring in a variety of areas as illustrated in Figure 1. Progressive reclamation of the Ulu mine site was undertaken this year but was limited in scope which included: MLARD monitoring, test pitting to evaluate the camp/infrastructure pad, the staging of unused items for future landfilling, thermal monitoring, decontamination of the historical transformer and general site infrastructure reviews for potential near term issues. Ulu was accessed via the existing Ulu airstrip and serviced by direct charter flights from Yellowknife.

All activities occurring on the Hood River Mineral Exploration Agreement area operated out of the Ulu camp and, for the purposes of land use and reporting, are consolidated with Ulu and may be collectively referred to as Ulu. This report describes activities specifically occurring on IOL.

2.3 PANDEMIC PREPAREDNESS & RESPONSE

Governmental COVID-19 restrictions and rules in Nunavut were lifted in 2022, however, Blue Star promoted a voluntary self-monitoring process for COVID and illness among its employees before their flight to the camp, encouraging them to report any possible COVID-related matters. This approach aimed to prevent the potential spread of infection within the camp. The camp operated without a set limit on the number of personnel allowed on site. Additionally, Blue Star maintained the ability to engage with local communities for hiring and public consultations.

For the duration of the 2023 field season, workers from Nunavut communities were allowed to access the work sites. Blue Star is very pleased to report a successful hiring outcome, with respect to hiring workers from local communities and to having an unrestricted number of personnel in the camp. An overview of contracts between Blue Star and Nunavut communities can be seen in Table 6 - Inuit owned and northern based firms contracted by Blue Star in 2023.

2.4 LOGISTICS & ACCESS

Crews and supplies accessed site via fixed wing aircraft from Yellowknife to the Ulu airstrip. Depending on weather and payload, fixed wing flights typically cruised at altitudes between 6,000 and 10,000 feet, or as dictated by safety and weather considerations, at the pilot's discretion. Incoming and outgoing flights, frequencies and flight routes are listed below in Table 2.

Personnel and supplies arriving and departing by plane were shuttled between the Ulu airstrip and Ulu camp by light duty vehicle.

Remote work areas were accessed by helicopter. Daily helicopter overflights of remote work areas were undertaken most mornings prior to the start of work to determine local wildlife presence and resulting subsequent flying heights. Local low-level flights occurred almost daily between the camp and nearby exploration areas to support the movement of field crews.

Figure 1: Location map and 2023 work area, Ulu and Hood River.

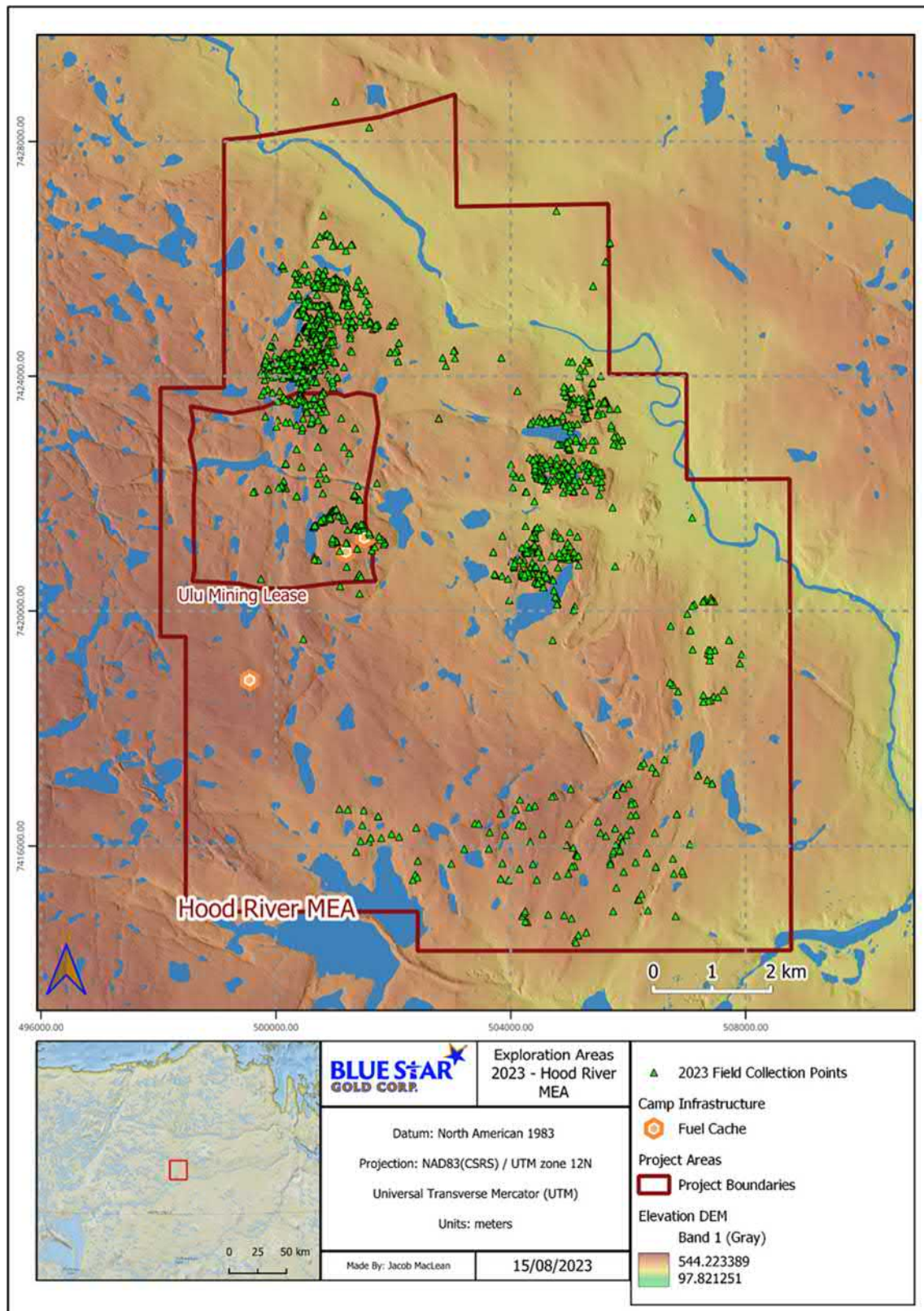


Table 2: Table of flight information, field season2023.

Date	Aircraft Company	Aircraft Model	Site	In from	Out to
May 31, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jun 3, 2023	Buffalo Air	C-46	Ulu Camp	Yellowknife	Yellowknife
Jun 8, 2023	Buffalo Air	Basler	Ulu Camp	Yellowknife	Yellowknife
Jun 9, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jun 14, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jun 21, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jun 28, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jul 1, 2023	Summit Air	Dornier	Ulu Camp	Yellowknife	Yellowknife
Jul 12, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jul 5, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jul 19, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife
Jul 22, 2023	Summit Air	Dornier	Ulu Camp	Yellowknife	Yellowknife
Jul 26, 2023	Air Tindi	Dash7	Ulu Camp	Yellowknife	Yellowknife

3. AUTHORIZATIONS

Current authorizations relating to the 2023 work program are listed in Table 3. Appendix B includes an assessment of compliance with 20EN001.

Table 3: Authorizations and compliance summary for 2023 work program.

Item	Description	Scope	Issuing body	Compliance Summary
<i>Hood River</i>				
HoodRiver-001	Mineral Exploration Agreement	Subsurface mineral rights	Nunavut Tunngavik Inc. (NTI)	Work conducted. Reporting underway, due in June.
2BE-HRP1932	Water licence	Drilling and domestic water use and associated waste deposit, Hood River	NWB	No drilling and domestic water use and waste deposit occurred in 2023. Annual reporting submitted. Activities in compliance with authorization.
149067	Conformity determination	Exploration, prospecting, mapping, sampling, camp establishment, fuel storage, access, baseline environment and heritage studies	Nunavut Planning Commission (NPC)	-
<i>Ulu</i>				
KTCA20Q004	Quarry Permit Agreement	Quarrying of granular materials	KIA	Esker material was reported, and royalty paid.
L-3563	Mining Lease	Subsurface mineral rights	Crown-Indigenous Relations and Northern Affairs (CIRNA)	Work conducted. Lease in good standing.
2BM-ULU2030	Water licence	Drilling and domestic water use and associated waste deposit, reclamation, bulk sampling, quarrying	NWB	Domestic water use and waste deposition occurred along with reclamation work.
149269, 149305	Conformity determination	Exploration, prospecting, mapping, sampling, camp establishment, fuel storage, access, baseline environment, and heritage studies, progressive reclamation, bulk sampling,	NPC	-

		quarrying, winter trail		
EC-00057628	Storage tank registration	Single collapsible Arctic King tank, 50,000 L, for diesel storage, in service when site is occupied.	Environment and Climate Change Canada	Registered in 2021, temporarily withdrawn from service at the end of the field season. Not reactivated in 2023
<i>Roma, Auma</i>				
149067	Conformity determination	Exploration, prospecting, mapping, sampling, camp establishment, fuel storage, access, baseline environment and heritage studies	Nunavut Planning Commission (NPC)	-
2BE-HRP1932	Water licence	Amendment of 2BE-HRP1924; Mineral tenure at an adjacent property; Increased water volume use and effluent limits	NWB	Drilling and domestic water use and waste deposit did not occur. Annual reporting submitted. Activities in compliance with authorization.
<i>Hood River, Ulu, Roma, Auma</i>				
KTL311C013	Land use licence	Exploration, camp operation, reclamation	KIA	Exploration, camp operation and reclamation undertaken. Annual reporting completed. Water and land use fees paid. Activities in compliance with authorization.
20EN001	Screening Decision Report	Exploration, prospecting, mapping, sampling, camp establishment, fuel storage, access, baseline environment, and heritage studies, progressive reclamation, bulk sampling, quarrying, winter trail	NIRB	All activities undertaken within scope of screening decision. Annual reporting herein Activities in compliance with authorization.

4. 2023 WORK PROGRAM

Land use activities in 2023 occurred between May 31st and August 9th, and involved: improvement and operation of the existing Ulu camp; assessment and maintenance of the Ulu surface fleet; prospecting, mapping and sampling; rock cutting; quarrying; progressive reclamation of the Ulu site including landfill staging, metal leaching and acid rock drainage (ML/ARD) assessment; airstrip maintenance; fuel caching (drums); waste backhaul; ground based geophysical surveys; image recording and mapping by drone, and compliance monitoring.

Blackwater was incinerated, greywater was discharged to a sump, drinking water was withdrawn from West Lake, and fuel caches were maintained. Cuttings from the core saw were discharged to a natural sump.

No sampling was undertaken pursuant to 2BM-ULU2030 Part D Item 15 as the Licensee is not currently in the process of resuming on site operations.

4.1 CONSTRUCTION, MODIFICATIONS AND MAINTENANCE

The only new construction to take place was the construction of a helipad to replace the aging original landing pad. Upon arrival at the Ulu camp site, necessary remedial measures were taken to address minor wildlife induced damages.

Modifications to the site this year are described below. Notably, the core shack has been integrated into the main water grid of the camp, enhancing its operational efficiency. For streamlined resource management in the event of camp closure, the relocation of six seacans and remaining Northtech drilling supplies to the west laydown area of the camp pad was executed. To bolster safety measures for helicopter operations, windsocks were installed both at the core shed and the southern extremity of the airfield. Additionally, the repositioning of camp generators was undertaken to mitigate noise impact, involving the transfer and soundproofing of an unused shed from the airstrip to the main camp and installation of the main camp generator within the shed. Furthermore, the core shack's power source has been transitioned to the main camp generator, thus preserving the core shack generator for emergency scenarios. This initiative contributes to fuel and power conservation. The acquisition of two side-by-side utility vehicles, trailers, and a skidsteer have yielded tangible benefits in terms of fuel, oil, and manpower savings. Additionally, a set of grizzly bars was fashioned from available on-site materials to facilitate potential future earthworks.

An engineered structure, the non-hazardous waste landfill, underwent maintenance to uphold the integrity of its surface esker cover. A comprehensive evaluation of on-site equipment, specifically the loader and school bus (predominantly serving as a medical evacuation vehicle), was conducted, resulting in noteworthy enhancements to the fire and welding trucks. Improvements to the airstrip were implemented in accordance with recommended guidelines to ensure its suitability for Electra aircraft landings. Enhancements within the camp encompass improvements to the laundry room, recreation room, as well as the replacement of the kitchen screen door and the heavy equipment shop door. Unused high-pressure gas cylinders left behind by previous camp operators were removed from the site.

4.2. ROAD AND AIRSTRIP MAINTENANCE

No winter trails or roads were constructed or used during the program.

No significant road maintenance was required in 2023. Minor improvements including additional topcoat of esker material and compaction of the runway surface were undertaken in order to improve takeoff- and landing of chartered aircraft.

Blue Star confirms that materials used for road repairs and airstrip maintenance were from an approved source, being the quarry licensed under KTCA20Q004, and are geochemically suitable as reported to the NWB in 2020.

4.3. EXPLORATION ACTIVITIES

The exploration program included structural and lithological mapping, prospecting and sampling, and ground based geophysical surveys. There was no drill program undertaken for the 2023 season.

The IP and ELF ground geophysics program at the camp on Ulu and Hood River property commenced on June 23rd and concluded on July 5th. A total of 378 rock samples were gathered from the Ulu, Hood River, and Auma properties as part of the prospecting and lithogeochemical survey in addition to 659 rocks for a XRF analysis. No activities were conducted on the Roma property in 2023.

4.4. PROGRESSIVE RECLAMATION ACTIVITIES

Progressive reclamation was undertaken at Ulu pursuant to the approved Interim Closure and Reclamation Plan (Blue Star 2021c) and is summarized below. At the time of writing, interim field and technical reporting was still underway.

4.4.1. NON-HAZARDOUS WASTE MANAGEMENT

The non-hazardous waste is routinely backhauled off-site for disposal by Blue Star's environmental consultant Kitikmeot Environmental Ltd. in Yellowknife. The Company requests and has received certificates of disposal once the waste has reached its final disposal destinations. For the season 2023 no landfilling was planned. Table 4 specifies the non-hazardous waste, backhauled to Yellowknife which includes incinerator ash as a secondary product, accrued between May 31st and August 9th by the camp incinerator.

4.4.2. HAZARDOUS WASTE MANAGEMENT

Construction of the Soil Treatment Facility (STF) continued to be deferred in 2023 pending outcomes of an on-going Reclamation Research Program (2021) and Soil Treatment Facility Management Plan (2021). Legacy contaminated soil/esker was stockpiled within the lined area of the former main tank farm in 2020. All stockpiles and the former tank farm berm were sampled in June and July 2021 and August 2022 to determine suitability for either: placement in the landfill, treatment in the future on site soil treatment facility, or backhaul for offsite disposal. In 2023 the soil storage piles (TSP piles) were aerated in preparation for re-sampling in 2024 to determine a trend of natural remediation of this material type.

Polychlorinated Biphenyls

While segregating legacy waste in 2021, an old transformer was discovered co-mingled with other solid waste staged for disposal, remnants from the previous owner's activities. The transformer, bearing a

manufacture date of 1966 on its data plate, raised concerns of containing polychlorinated biphenyls (PCBs) due to its age. In response, external consultants from KEL were engaged during this season to conduct testing and subsequent cleansing of the transformer. KEL initiated their work on July 19, 2023, focusing on evaluating PCB levels and decontamination of the transformer. Following a thorough treatment involving a degreaser application and water wash, tests confirmed PCB levels fell below the established permissible landfill threshold of 20 ppm. As part of the comprehensive process, any residual liquids were removed from the site and entrusted to a certified hazardous waste receiver in Yellowknife for proper disposal. With the transformer now devoid of hazardous substances, it has been staged for deposition within the designated landfill area.

Hazardous Waste Backhaul

Hazardous waste streams recovered across the Ulu site were segregated and backhauled to Kitikmeot Environmental Ltd. in Yellowknife, as listed in Table 4. The Company requests and has received certificates of disposal once the waste has reached its final disposal destinations.

Old underground drills on the camp pad were placed on the cement sump pad and any drained fluids were cached and shipped south for disposal.

Table 4: Waste backhauled from Ulu, 2023.

Waste description	UN #	Quantity
<i>Hazardous Waste</i>		
Batteries - lead acid	-	190 kg
Waste leachate-mix	-	600 l
Waste leachate-oil	-	820 l
<i>Non-Hazardous Waste</i>		
Plastics/recyclables	-	181 kg
Scrap metal (drums)		95
General debris	-	1088 kg
Incinerator ash	-	1360 kg
Oil/fuel filters	-	136 kg
Oily debris	-	272 kg
Contaminated soil	-	1451 kg
Water contaminated with hydrocarbons	-	200

4.5 RECLAMATION SECURITY

Further to Part B Items 5 and 6 of 2BM-ULU2030, the Licensee is not currently planning to resume active operations or proceed to final closure, nor were there changes in operations, components and/or technology. Accordingly, no updates to the restoration liability estimate are provided.

Restoration research, project development monitoring, and any modifications to the site plan undertaken are discussed below. As the reclamation research program is ongoing, outcomes of upcoming studies in

2023 and 2024 will inform any changes, if needed, to the reclamation security. Accordingly, a related update to the restoration liability is not considered appropriate until studies are complete, and so is not included in this annual report.

4.6. RECLAMATION RESEARCH

As listed in Section 4.6 of the approved Interim Closure and Reclamation Plan, reclamation research includes three topics, each discussed in subsequent sections:

- Material suitability for landfill erosion covers;
- Ore rock management and waste rock management;
- Material suitability for thermal cover.

4.6.1. LANDFILL COVER

Qualitative preliminary landfill cover assessment was previously undertaken through visual observation of the stability of existing materials historically and recently placed around the Ulu site. Materials continue to appear stable with little to no evidence of significant erosion or other instability. Resurfacing of the landfill was undertaken to better promote surface water shedding from snowmelt and rainfall.

4.6.2. ORE AND WASTE ROCK MANAGEMENT

A study of ML/ARD potential of legacy waste rock forming the base of the infrastructure pads was continued, pursuant to the approved and previously supplied Interim Closure and Reclamation Plan. In 2023 Blue Star undertook the following programs to inform a thorough and current understanding of ML/ARD conditions at Ulu arising from legacy use of waste rock and ore in construction. While final reporting is currently ongoing from a third-party company, a summary of each program component is provided below:

- Delay to onset of ARD conditions;
 - Seepage study;
 - Rinse pH testing of industrial pads;
- Thermal cover evaluation;

Most historically deposited waste rock at the camp was found to be potentially acid generating (PAG) with acidic conditions observed both at depth and at surface in some areas where the waste rock was exposed (not covered with esker). As reported in its annual report pursuant to 2BM-ULU2030, further investigations into the nature and extent of waste rock, ore and esker used in historic infrastructure construction is needed to inform a current understanding of weathering and ML/ARD potential occurring at Ulu and to observe reactions in the geo- and aqueous chemistry. Figure 3 and 4 in the Appendix show the locations of seepage sampling in 2023 and monitoring around the camp area. The ponds, drainage systems and lakes, where (comparative) analytics is conducted, are located at the camp, Ore Pad, Waste Rock Stockpile, Waste Rock Portal Pad and surrounding lakes. The sampling locations and stations were used for in-situ measurements, comprising pH-, temperature-, dissolved oxygen-, oxidation-reduction potential analysis and water sampling for detailed analytics in a laboratory. During the field season of 2023, a total of 129 assessments were carried out at both MLARD and Compliance stations. This encompassed 89 field readings and the collection of 41 water samples designated for laboratory analysis, inclusive of QAQC measurements.

The seepage survey was undertaken throughout the season capturing both late freshet and mid season conditions, providing input into the prediction of delay to ARD and informing an understanding of current ecological risk posed by ARD. Preliminary findings indicate the following:

- Sulphide oxidation and corresponding dissolution of calcite seem to be the dominant processes influencing water chemistry;
- Contact water and stagnant seepage varies between pH 4.3 to 7.8. While higher pH's indicates that waste rock is not generating ARD, low pH-places seem to result from interaction with naturally acidic tundra soils, rather than ARD;
- ARD has not been encountered during seasonal sampling program since property acquisition by Blue Star;
- Contact water from acidic rock in the pads is currently being neutralized within deeper levels of the pads;
- Conditions are dilute at freshet;

Infrastructure pads are comprised of waste rock, overlain by esker in some areas, or, in the case of parts of the camp footprint, comprised entirely of esker. Comingled ore and waste rock (previously understood to be the ore stockpile) stored near the portal was found to be closer to becoming acid generating. Material at the edges of the infrastructure pads, where the waste rock is not covered by esker, is most at risk of producing ARD due to short flow paths for neutralization. Preliminary calculations indicate this material may develop initial ARD in 1-16 years, while widespread ARD from typical areas of the infrastructure pads with existing 0.5 – 1 m esker sand cover is predicted to occur in 11-25 years.

In collaboration with SRK Consulting Geochemist, test pitting and pH testing of the infrastructure pads at Ulu camp was conducted. The rinse pH program works to monitor the PAG (potentially acid-generating) waste rock conditions in the infrastructure pads and acts as a warning system for potential acid rock drainage (ARD). The rinse pH monitoring program, in conjunction with the seepage monitoring program, provides data for better management and mitigation of these conditions. Thirty locations along a modified 50 m grid, dispersed across the infrastructure pads, were sampled in collaboration with SRK Consulting Geochemist. These samples were collected with Akokli support digging the test pits, samples were collected from one or more horizons depending on observations then dried and tested for pH and conductivity to evaluate conditions in the camp pad. A total of 37 samples were tested, not inclusive of QAQC measurements. While the 2023 rinse pH program has identified several areas of concern where potential acid generating rock was observed (Figure 5), predominant conditions of the infrastructure pads remained circum-neutral, indicating acid buffering carbonate minerals still present. An interim report from SRK Consulting is pending.

Pursuant to the 2021 and 2022 study results indicating esker sand cover may support a longer delay to ARD, thermal computer modelling was conducted to estimate the triggering variables for limiting sulphide oxidation rates (SRK Consulting (Canada) Inc., 2022:59-61). Esker cover placed over waste rock is expected to reduce the thaw process, the temporal length of thawing, the active layer, thermal conductivity, and oxidation of sulfides. During the 2022 field season two thermistors were installed on the ore pad as a proxy for average camp infrastructure construction. One installation was within the 2 metres of pad thickness, at the coordinates Lat: 66.904973 and Lon: -110.973207, with the other installation through the same pad thickness with an additional layer of 1.6 metres of esker cover, at the coordinates Lat: 66.905706 and Lat: -110.972622. In 2023, the data loggers were replaced, and minor maintenance work along with checks on the data loggers and connections were carried out. The installed devices provide thermal data throughout the day accessible via satellite connection and visible in a cloud storage. Due to

the installation disturbance the areas will need to return to stability before the data is meaningful and it is expected that a good initial dataset will be obtained within a 24 month period from the installation date assuming no issues with the devices. Results of this study will inform a decision on how to better address site MLARD management.

4.7. PROJECT MONITORING MANAGEMENT

Monitoring was carried out in accordance with Schedule J of 2BM-ULU2030 and is reported herein.

4.8. MODIFICATIONS TO THE SITE PLAN

At the time of reporting, modifications to the site plan are not anticipated. Should they be required, modifications will proceed in accordance with Part G of 2BM-ULU2030.

4.9. WATER MANAGEMENT

Water use occurred in accordance with 2BE-HRP1932 and 2BM-ULU2030. The Monitoring Program requires reporting of information tabulated in Table 5; Table 5 identifies where this information can be found herein.

The use of domestic water, obtained from the existing domestic water supply lake, West Lake, commenced on May 31st and ended on August 7th. Ulu core saw water was taken from the domestic water supply and was not separately metered. Accordingly, a total of 137.27 m³ water was consumed for domestic and core saw use, with a daily maximum of 4.59 m³ occurring during start-up to fill storage tanks. On average, 1.93 m³ water was consumed daily (Appendix D1).

Throughout the 2023 field season, no drilling program was carried out, consequently eliminating the necessity for water usage in drilling activities. Domestic water use is expected to continue in a similar manner in 2024. It is assumed that water for drilling will be needed for the 2024 field season.

Table 5: Water Monitoring Program.

Station ID	Station Description	Location of Monitoring Results
ULU-1	Water Intake at West Lake	See Appendix D1
ULU-2	Sewage effluent discharge point	Inactive, facility decommissioned
ULU-3	Sewage treatment facility sludge	Inactive, facility decommissioned
ULU-4	Minewater pumped from underground Mine Sump	Not discharging
ULU-4b	Surface retention pond	Pond not constructed
ULU-5	Settling/Neutralization Pond 1	Pond not constructed

ULU-6	<i>Settling/Neutralization Pond 1</i>	<i>Pond not constructed</i>
ULU-7	Runoff from the waste rock storage area	No flow observed
ULU-8	Runoff from the ore storage area	See Appendix D2
ULU-9	Outflow East Lake	See Appendix D2
ULU-10	<i>Inflow Ulu Lake from East Lake</i>	<i>Inactive, facility decommissioned</i>
ULU-11	Outflow Ulu Lake	See Appendix D2
ULU-12	<i>Domestic water intake for new camp</i>	<i>New camp not constructed</i>
ULU-13	<i>Soil treatment facility water holding pond</i>	<i>Facility not yet constructed</i>
ULU-14	Bulk fuel storage facility	Temporarily withdrawn from service
ULU-15	Landfill facility	See Appendix D2
MW-1, -2, -3	<i>Monitoring wells at soil treatment facility.</i>	<i>Facility not constructed, wells not installed</i>

4.10. SPILLS, DISCHARGES, ARTESIAN FLOW

No hydrocarbon spill occurred during the field season 2023 and no reports needed to be filed with the KIA and CIRNA.

There were no unauthorized discharges in 2023.

No artesian flows were encountered during field season 2023.

4.11. WILDLIFE INTERACTIONS

Throughout the field season, activities conducted on Inuit Owned Lands had no detrimental impact on wildlife. No orders to stop work were issued. A diverse range of wildlife was observed during the program, including caribou, moose, muskoxen, foxes, wolves, arctic ground squirrels (sik siks), rabbits, waterfowl, ravens, boreal owls, ptarmigans, and grizzly bears.

Significantly, no caribou calves were observed within the project area, and deliberate efforts were undertaken to mitigate low-altitude overflights. In total, a sum of 84 caribou observations were documented throughout the duration of the field season: 52 in June, 31 in July, and two in August. The most sizable group observed during this season comprised 11 individuals. Notably three caribou were consistently present in and around camp for the majority of July. Caveat, there are many expected repeat sightings of the three caribou potentially inflating the total observations and therefore the numbers may not be reflective of unique animal sightings.

In adherence to the Wildlife Protection Plan (Blue Star 2021c), measures were taken to ensure wildlife safety. In two instances, specifically related to the identification of active songbird nests, precautions were

taken. These included flagging the area, restricting access in the vicinity, and monitoring the nest until the birds had left.

4.12. QUARRY ACTIVITIES

A total of 147 m³ of esker were extracted from the existing quarry area under KTCA20Q004 in July 2023. Borrow was predominantly used for landfill re-leveling and road and airstrip maintenance. Royalties have been paid pursuant to KTCA20Q004.

4.13. ANNUAL INSPECTION ACTIVITIES AND BOARD/LANDOWNER REQUESTS

On July 27th, the KIA Senior Lands Officer and Project Officer attempted to attend the Blue Star exploration site, however, heavy smoke from southern fires did not allow for safe travel. The Senior Lands Officer indicated they would review photos of the site to be provided by Blue Star Gold Corp as a substitute for a physical site inspection. Photos were provided using Microsoft Sharepoint by August 30, 2023.

The CIRNA inspector did not undertake a site visit in 2023; access to the same photos provided to the KIA Lands Officers was provided to the CIRNA Inspector.

Table 6: Inspector requests and follow-up actions, 2023.

	Inspector Request	Blue Star Action
KIA	Provide site photos	Provided photos using a shared cloud drive
CIRNA	Not applicable	Not applicable

4.14. VISITORS AND OTHER LAND USERS

No community residents or land users attended Ulu in 2023 or were seen transiting through the project area while the camp was open. During July and August a GN wildlife biologist with spotters from Kugluktuk and a contracted helicopter stopped to refuel at Ulu camp on three occasions.

4.15. HERITAGE RESOURCES

Blue Star drafted an application for a Nunavut Territory Archaeologist Permit for 2023 for proposed new areas of drilling in advance of the season, however prior to program planning those targets were removed from the program and the Archeology survey was not required. Drilling was not carried out in 2023.

5. INUIT EMPLOYEES AND NORTHERN SERVICE PROVIDERS

Throughout 2023, Blue Star retained the services of Inuit-owned and northern-based firms to the greatest extent possible, as listed in Table 7.

Table 7: Inuit owned and northern based firms contracted by Blue Star in 2023.

Firm	Qualified Kitikmeot Business ¹	Registered with NTI	Based in Northern Canada
62°North			NT
Aglu Consulting and Training Inc.		✓	NU
Aqsaqniq Airways Ltd (Air Tindi)		✓	NT
Aurora Geosciences Ltd			NT
Buffalo Airways & Kitikmeot Air Ltd.	✓	✓	NT
Cascom Remote Communications and IT Solutions			NT
Discovery Mining Services & Nunavut Expediting Services			NT
Kingaunmiut Services Ltd	✓	✓	NU
Kitikmeot Environmental Ltd.	✓	✓	NU
Norseman Property Holdings			NT
Northern Communication			NT
Great Slave Helicopters 1984 / Kitikmeot Helicopters Ltd	✓	✓	NT
SRK Consulting (Yellowknife office)			NT
Weaver & Devore Trading Ltd			NT

6. COMMUNITY CONSULTATIONS

From March 27 to April 1st Jaida Lamming, Senior Geologist and Darren Lindsay, Vice President Exploration, along with Blue Star's community liaison Dawn Ayalik traveled to the Hamlets of Kugluktuk and Cambridge Bay as a first step in re-establishing a community engagement program. Some more formal and informal meetings were held with Hamlet SAO's, community development officers, Kitikmeot Inuit Association Lands representatives, Elder groups, and high school principals in addition to the communities at large through scheduled community meetings. Additionally, serendipitous interactions with local business owners, Hunters and Trappers members and Wildlife Officers and the general public occurred within both communities.

All groups and individuals were provided an update to Blue Star's activities and its plans for the 2023 season. Feedback was requested at the community meetings as well as with the Inuit and Government organizations to seek input to program aspects where required. The Company representatives interacted with past workers from both the Blue Star activities as well as previous activities at High Lake and the Lupin Mine.

Blue Star reached out to the Burnside and Omingmaktok Hunters and Trappers Associations in Cambridge Bay, the Kugluktuk Agoniatit Association, as well as the Hamlets of Gjoa Haven, Kugaaruk and Taloyoak to determine interest in meeting virtually.

Through engagement with the GN-Department of Environment in Iqaluit, Blue Star provided logistical and in-kind support to Malik Awan, Wildlife Biologist Carnivores, the Kugluktuk Agoniatit Association and the GN in executing their on-going grizzly bear hair snagging study 2023 in the Kitikmeot Region.

¹ As per Kitikmeot Qualified Business Registry, April 1, 2023.

7. MANAGEMENT PLANS

Changes in management plans have been made to include newly staked mineral claims. These are covered under 2BE-HRP-1932 not this licence.

8. WORKPLAN FOR UPCOMING YEAR

Scoping of the 2024 program is underway at the time of reporting. The program is expected to be a continuation of the 2023 program, focusing on surface exploration, including diamond drilling, and compliance-related activities, with no resumptions of mining operations.

Reclamation activities proposed for 2024 include final placement of unusable materials in the landfill including the heavy equipment required to be in use for supporting the work programs, on-going research studies including thermal monitoring and further evaluation of stockpiled soils and evaluation of oxidizing rock in the infrastructure pads, and potential initial construction of the soil treatment facility. Final budgeting will either approve or not approve components of the proposed work program including some reclamation activities.

It is also expected that a final determination of a proposed relocated camp site be completed this season.

Specific planned program components are discussed below.

8.1 CAMP EXPANSION

Airstrip maintenance and improvements will be ongoing, as will camp maintenance and improvements. No camp bedspace expansion is planned at this time.

8.2. PROGRESSIVE RECLAMATION

Progressive reclamation will focus on the reclamation research into ML/ARD aspects including continuation of the seepage and water flow monitoring and sampling program. Data from reference stations, water sampling stations and the thermistor stations are planned to be collected, compared and assessed with the Company's external subject matter experts.

Continued characterization of legacy in situ contamination arising from staged legacy waste is also to be monitored; partial construction of the STF and final placement in the landfill is also proposed but not currently budgeted.

8.3. EXPLORATION

The exploration program will continue similarly to previous years with ground-based mapping and prospecting/sampling activities with ground based geophysical surveys along with diamond drilling activities. There are areas that may be drilled in the coming year that have not been previously contemplated so there is a possibility of expanding the archeology research to these areas prior to drilling work being undertaken. Archeology review and environmental review may also be undertaken on a

proposed re-located camp location that has been discussed for a number of years but will be required in order to continue to advance the progressive reclamation activities.

As in every year, Blue Star strives to keep its footprint as small as possible in its exploration program and will continue to do so in 2024. This includes evaluation of proposed drill locations, active drill site inspections, and documentation of pre- and post-drilling status of the drill pads. Continued use of the on-site analysis of soil, till and rock chip samples using pXRF technology will continue.

8.4. WATER LICENCE AMENDMENT

Modification of the criteria associated with Part D Item 9 has been discussed and considered due to the naturally high concentration levels, but no official amendment to the water license is currently planned.

9. REFERENCES

- Blue Star Gold Corp. 2022. Spill Response Plan, Ulu Gold Project, (including Hood River, Roma and other licenced projects), Kitikmeot Region, Nunavut. May 2022.
- Blue Star Gold Corp. 2022. Emergency Response Plan, Ulu Gold Project, (including Hood River, Roma and other licenced projects), Kitikmeot Region, Nunavut. April 2022.
- Blue Star Gold Corp. 2022. Health and Safety Plan, Ulu Gold Project, (including Hood River, Roma and other licenced projects), Kitikmeot Region, Nunavut. March 2022.
- Blue Star Gold Corp. 2021a. Environmental, Social and Governance Policies, Reports and Practices. October 2021.
- Blue Star Gold Corp. 2021b. Wildlife Protection Plan, Ulu Gold Project, Kitikmeot Region, Nunavut. March 2021.
- Blue Star Gold Corp. 2021c. Interim Closure and Reclamation Plan, Ulu Gold Project, Kitikmeot Region, Nunavut. March 2021.
- Blue Star Gold Corp. 2021b. Landfill Management Plan, Ulu Gold Project, Kitikmeot Region, Nunavut. March 2021.
- Blue Star Gold Corp. 2021. Soil Treatment Facility Management Plan, Ulu Gold Project, Kitikmeot Region, Nunavut. March 2021.
- Blue Star Gold Corp. 2020. Project Execution and Exposure Control Plan, Ulu & Hood River Gold Projects, Kitikmeot Region, Nunavut. June 2020.
- Blue Star Gold Corp. 2020. Borrow Pits and Quarry Management Plan, Ulu Gold Project, Kitikmeot Region, Nunavut. March 2020.
- KBL Environmental Ltd. 2023. Limited Phase II Environmental Site Assessment. Ulu Mine. Yellowknife.
- SRK Consulting (Canada) Inc. 2023. Monitoring of Metal Leaching and Acid Rock Drainage Potential at the Ulu Camp, Ulu Gold Project. Vancouver.

10. APPENDICES

APPENDIX A. NWB STANDARD WATER LICENCE REPORT FORM, 2BM-ULU2030

NWB2(insert)

NWB Annual Report Year being reported: 2023

License No: Issued Date:
 Expiry Date:

Project Name:

Licensee:

Mailing Address:

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

General Background Information on the Project (*optional):

The Ulu Gold Project is comprised of the Crown-granted Ulu Mining Lease, L-3563, and the Hood River Mineral Exploration Agreement held with NTI (HoodRiver-0010). Both components of the Ulu Gold Project surface rights are regulated by the Kitikmeot Inuit Association (KIA). The Roma Project is located approximately 40 km north of the Ulu Gold Project in the High Lake Greenstone Belt. The Roma Project comprises Crown claims and a Mineral Exploration Agreement with NTI, which covers approximately 14,000 ha.

Surface activities are licenced by the Kitikmeot Inuit Association (KIA) under one licence, while there is one water licence for Hood River and Roma activities (2BE-HRP1924) and a separate water license for Ulu (2BM-ULU2030).

No water was used or waste disposed under licence 2BE-HRP1924 in 2023.

All of Blue Star's activities, including those occurring on its adjacent Hood River lease and at Roma Gold Project licenced under 2BE-HRP1932, were based out of the Ulu camp in 2023.

Licence Requirements: the licensee must provide the following information in accordance with

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	<input type="text" value="West Lake (domestic)"/>
Water Quantity:	<input type="text" value="299 tot m3/day"/> Quantity Allowable Domestic (cu.m)
	<input type="text" value="137,27 m3/total"/> Actual Quantity Used Domestic (cu.m)
	<input type="text" value="299 tot m3/day"/> Quantity Allowable Drilling (cu.m)
	<input type="text" value="0"/> Total Quantity Used Drilling (cu.m)

NWB2(insert)

Waste Management and/or Disposal

- ☒ Solid Waste Disposal
☒ Sewage
☐ Drill Waste
☒ Greywater
☒ Hazardous
☐ Other:

Additional Details:

Solid waste/non-hazardous waste/sewage was incinerated placed in sealed barrels and sent south to Yellowknife for disposal, recyclable solid waste was packaged and shipped to Yellowknife for disposal, greywater was collected in a sump then pumped to a natural sump for disposal; hazardous materials were properly containerized and shipped to Yellowknife for disposal.

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

No spills were recorded in 2023

Revisions to the Spill Contingency Plan

Other: (see additional details) ▼

Additional Details:

The Spill contingency Plan was been updated to include the two new claims staked at the Roma Project in 2023.

Revisions to the Abandonment and Restoration Plan

Other: (see additional details) ▼

Additional Details:

The Abandonment and Restoration Plan was been updated to include the two new claims staked at the Roma Project in 2023.

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

Reclamation research into MLARD, old transformer decontaminated by external consultant

NWB2(insert)

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Details described below

Additional Details:

West Lake: 66° 54' 27", -110° 59' 4"
Domestic water intake: 66° 54' 27", -110° 59' 3"

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Details attached

Additional Details:

Grey water sump 66° 54' 29', -110° 58' 8'
Non-hazardous waste landfill 66° 54' 28', -110° 57' 56'
Core saw sump 66° 54' 25', -110° 57' 56'
Incinerator 66° 54' 28.5', -110° 58' 3.2'

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board

Additional Details: (date of request, analysis of results, data attached, etc)

N/A

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

No additional sampling requested by an Inspector or the Board

Additional Details: (Attached or provided below)

N/A

Any responses or follow-up actions on inspection/compliance reports

No inspection and/or compliance report issued by INAC

Additional Details: (Dates of Report, Follow-up by the Licensee)

N/A

NWB2(insert)

Any additional comments or information for the Board to consider

Following GPS coordinates apply to 2BM-ULU2030. All utilized water sources and areas of waste disposal in 2023 were within the Ulu lease.

Date Submitted:	March 31, 2023
Submitted/Prepared by:	Tara Gunson
Contact Information:	Tel: 780-467-3532
	Fax:
	email: tgunson@apexgeoscience.com

GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg °	Min ,	Sec "	Deg °	Min ,	Sec "
West Lake	66	54	27	-110	59	4
Domestic water intake	66	54	27	-110	59	3

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	Deg °	Min ,	Sec "	Deg °	Min ,	Sec "
Grey water sump	66	54	29	-110	58	8
Non-hazardous waste landfill	66	54	28	-110	57	56
Core saw sump	66	54	25	-110	57	56
Incinerator	66	54	28.5	-110	58	3.2

APPENDIX B. COMPLIANCE ASSESSMENT, 20EN001

Following a compliance assessment of terms and conditions as well as monitoring and reporting requirements associated with the Screening Decision, it was determined that Blue Star was in compliance with all requirements.

APPENDIX C. CAMP SITE PHOTOS

Figure 28: Ulu camp, July 31st, 2023.



Figure 55: Water inspection sites (1), 2023.

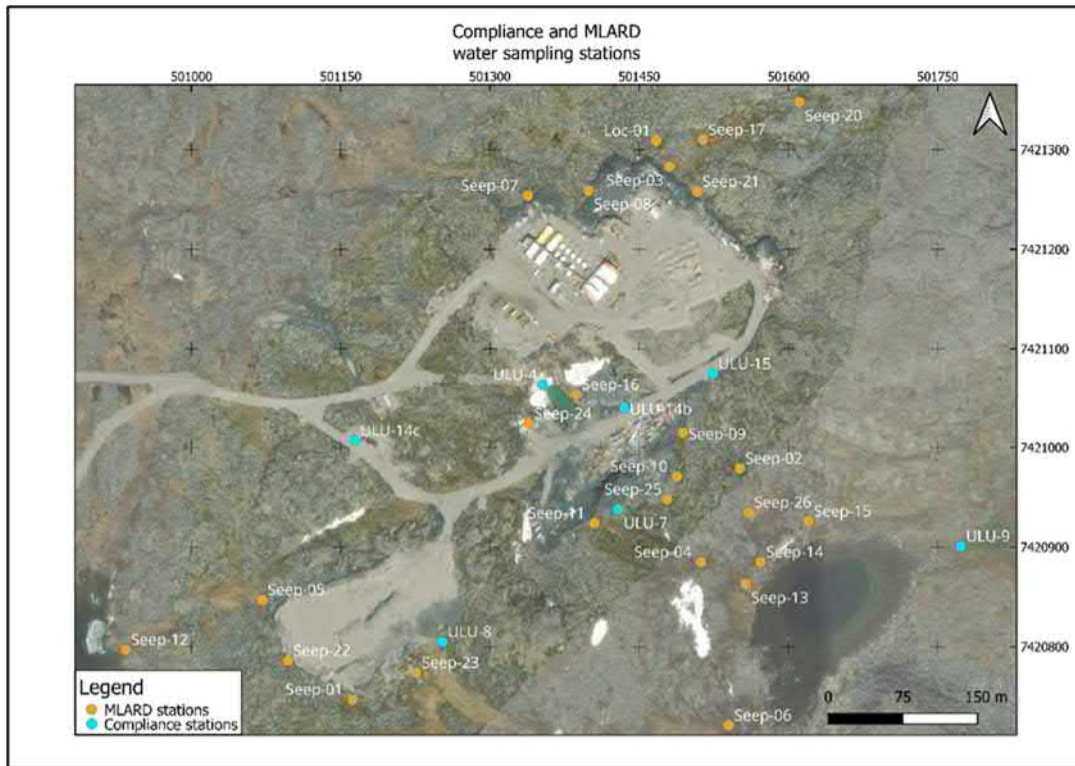


Figure 82: Water inspection sites (2), 2023.

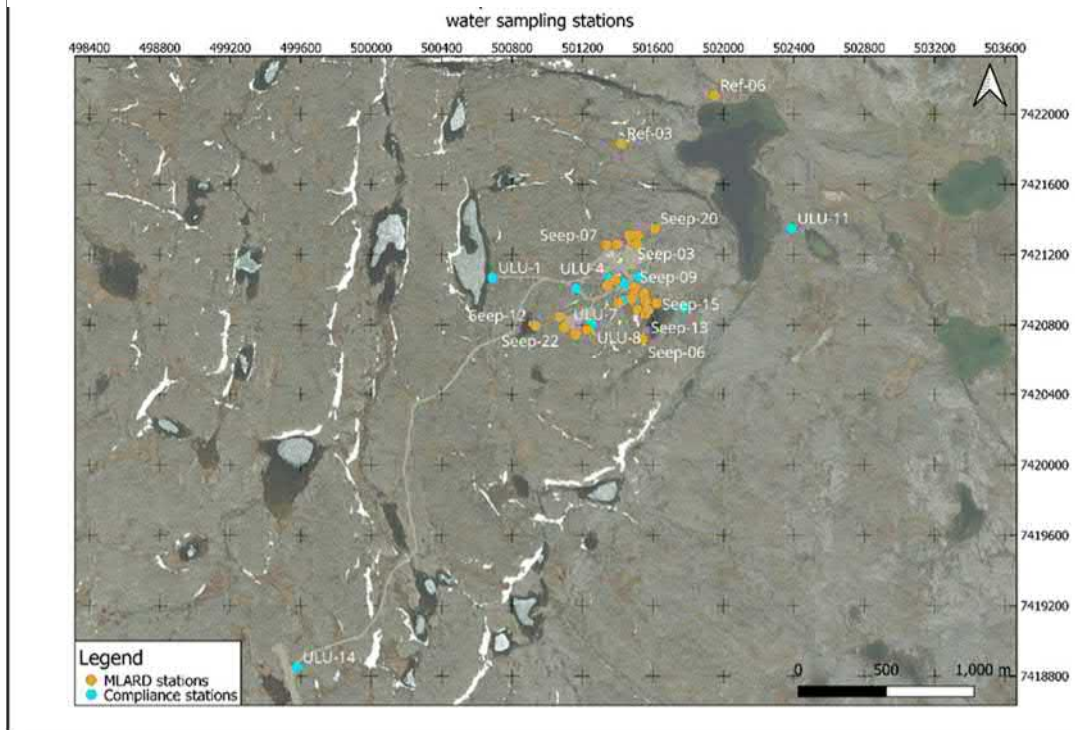


Figure 107: Rinse pH test pitting locations, 2023.

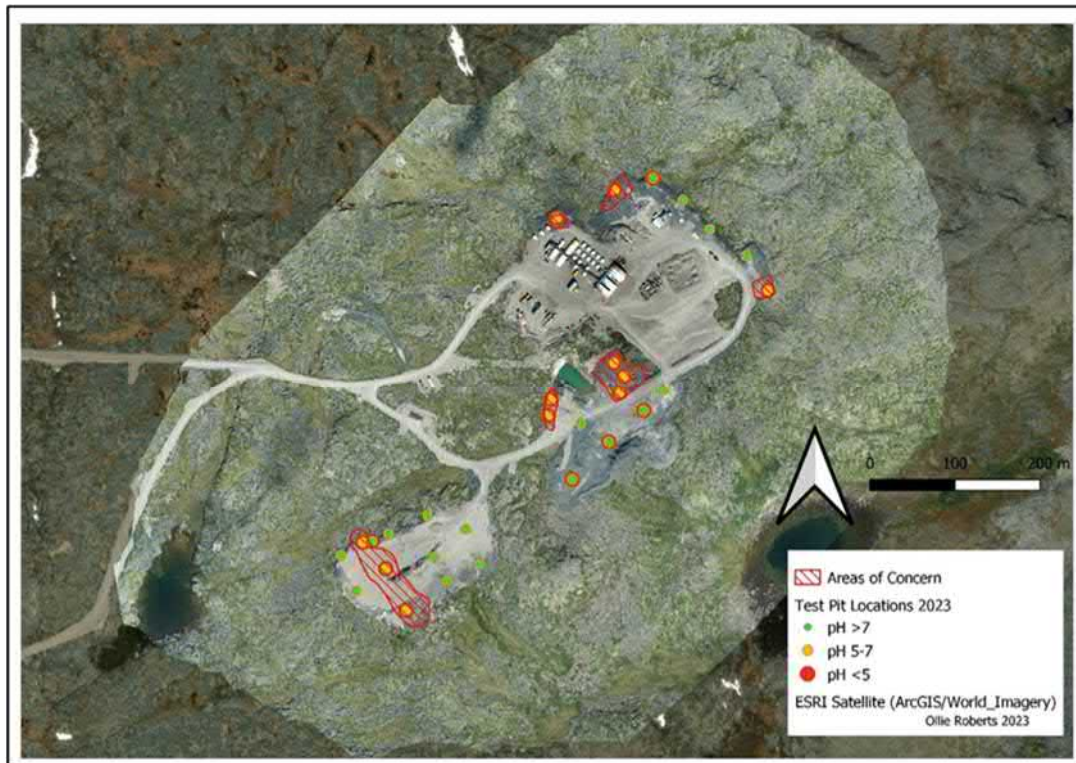


Figure 122: Transformer cleaning, 2023.





Figure 7: Grey water sump, 2023.



Figure 8: Water analysis and sampling, 2023.

APPENDIX D1. DAILY WATER USE, ULU LEASE

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
May				
1	Day	0	0	0
	Night	0		
2	Day	0	0	0
	Night	0		
3	Day	0	0	0
	Night	0		
4	Day	0	0	0
	Night	0		
5	Day	0	0	0
	Night	0		
6	Day	0	0	0
	Night	0		
7	Day	0	0	0
	Night	0		
8	Day	0	0	0
	Night	0		
9	Day	0	0	0
	Night	0		
10	Day	0	0	0
	Night	0		
11	Day	0	0	0
	Night	0		
12	Day	0	0	0
	Night	0		
13	Day	0	0	0
	Night	0		
14	Day	0	0	0
	Night	0		
15	Day	0	0	0
	Night	0		

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
May				
16	Day	0	0	0
	Night	0		
17	Day	0	0	0
	Night	0		
18	Day	0	0	0
	Night	0		
19	Day	0	0	0
	Night	0		
20	Day	0	0	0
	Night	0		
21	Day	0	0	0
	Night	0		
22	Day	0	0	0
	Night	0		
23	Day	0	0	0
	Night	0		
24	Day	0	0	0
	Night	0		
25	Day	0	0	0
	Night	0		
26	Day	0	0	0
	Night	0		
27	Day	0	0	0
	Night	0		
28	Day	0	0	0
	Night	0		
29	Day	0	0	0
	Night	0		
30	Day	0	0	0
	Night	0		
31	Day	0	3.4	3.4

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
June				
1	Day	0	0	0
	Night	0		
2	Day	0	0	0
	Night	0		
3	Day	0	0	0
	Night	0		
4	Day	0	0	0
	Night	0		
5	Day	0	4.59	4.59
	Night	0		
6	Day	0	1.7	1.7
	Night	0		
7	Day	0	0	0
	Night	0		
8	Day	0	1.96	1.96
	Night	0		
9	Day	0	1.15	1.15
	Night	0		
10	Day	0	1.65	1.65
	Night	0		
11	Day	0	1.52	1.52
	Night	0		
12	Day	0	2.14	2.14
	Night	0		
13	Day	0	1.62	1.62
	Night	0		
14	Day	0	2.54	2.54
	Night	0		
15	Day	0	1.38	1.38
	Night	0		

	Night	0		
Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
June				
16	Day	0	3.72	3.72
	Night	0		
17	Day	0	1.71	1.71
	Night	0		
18	Day	0	2.28	2.28
	Night	0		
19	Day	0	1.59	1.59
	Night	0		
20	Day	0	2.19	2.19
	Night	0		
21	Day	0	2.79	2.79
	Night	0		
22	Day	0	1.84	1.84
	Night	0		
23	Day	0	2.23	2.23
	Night	0		
24	Day	0	2.66	2.66
	Night	0		
25	Day	0	2.3	2.3
	Night	0		
26	Day	0	2.56	2.56
	Night	0		
27	Day	0	2.84	2.84
	Night	0		
28	Day	0	2.49	2.49
	Night	0		
29	Day	0	1.82	1.82
	Night	0		
30	Day	0	1.91	1.91
	Night	0		

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
July				
1	Day	0	1.34	1.34
	Night	0		
2	Day	0	2.15	2.15
	Night	0		
3	Day	0	2.03	2.03
	Night	0		
4	Day	0	1.02	1.02
	Night	0		
5	Day	0	2.83	2.83
	Night	0		
6	Day	0	1.23	1.23
	Night	0		
7	Day	0	1.72	1.72
	Night	0		
8	Day	0	1.18	1.18
	Night	0		
9	Day	0	2.41	2.41
	Night	0		
10	Day	0	1.54	1.54
	Night	0		
11	Day	0	2.12	2.12
	Night	0		
12	Day	0	4.47	4.47
	Night	0		
13	Day	0	0	0
	Night	0		
14	Day	0	2.17	2.17
	Night	0		
15	Day	0	1.74	1.74
	Night	0		

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
July				
16	Day	0	2.23	2.23
	Night	0		
17	Day	0	2.45	2.45
	Night	0		
18	Day	0	1.93	1.93
	Night	0		
19	Day	0	2.91	2.91
	Night	0		
20	Day	0	4.19	4.19
	Night	0		
21	Day	0	2.03	2.03
	Night	0		
22	Day	0	2.73	2.73
	Night	0		
23	Day	0	2.43	2.43
	Night	0		
24	Day	0	1.88	1.88
	Night	0		
25	Day	0	2.54	2.54
	Night	0		
26	Day	0	1.68	1.68
	Night	0		
27	Day	0	2.44	2.44
	Night	0		
28	Day	0	2.28	2.28
	Night	0		
29	Day	0	1.93	1.93
	Night	0		
30	Day	0	2.18	2.18
	Night	0		
31	Day	0	2.45	2.45
	Night	0		

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
August				
1	Day	0	2.86	2.86
	Night	0		
2	Day	0	2.29	2.29
	Night	0		
3	Day	0	0	0
	Night	0		
4	Day	0	2.95	2.95
	Night	0		
5	Day	0	0	0
	Night	0		
6	Day	0	1.09	1.09
	Night	0		
7	Day	0	3.27	3.27
	Night	0		
8	Day	0	0	0
	Night	0		
9	Day	0	0	0
	Night	0		
10	Day	0	0	0
	Night	0		
11	Day	0	0	0
	Night	0		
12	Day	0	0	0
	Night	0		
13	Day	0	0	0
	Night	0		
14	Day	0	0	0
	Night	0		
15	Day	0	0	0
	Night	0		

Date	Shift	Volume (m³)		
		Drilling	Domestic & Core cutting	Total
August				
16	Day	0	0	0
	Night	0		
17	Day	0	0	0
	Night	0		
18	Day	0	0	0
	Night	0		
19	Day	0	0	0
	Night	0		
20	Day	0	0	0
	Night	0		
21	Day	0	0	0
	Night	0		
22	Day	0	0	0
	Night	0		
23	Day	0	0	0
	Night	0		
24	Day	0	0	0
	Night	0		
25	Day	0	0	0
	Night	0		
26	Day	0	0	0
	Night	0		
27	Day	0	0	0
	Night	0		
28	Day	0	0	0
	Night	0		
29	Day	0	0	0
	Night	0		
30	Day	0	0	0
	Night	0		
31	Day	0	0	0
	Night	0		

APPENDIX D2. MONITORING PROGRAM RESULTS

As mentioned in Table 5, no water flow was recorded at Ulu 7 and other monitoring stations during the field season, however, samples were taken from ULU-8, ULU-9, ULU-11, ULU-14C, and ULU-15 and sent to the laboratory for further analysis. The following table has been summarized with the parameters provided in license 2BM-ULU2030. The complete laboratory results can be supplied upon request.

	Units	Detection Limits	ULU-7	ULU-8	ULU-9	ULU-11	ULU 14c	ULU-15
Date			June 6 th , 2022	June 7 th , 2022	June 7 th , 2022	June 7 th , 2022	June 13	June 11
Flow	L/sec		0.267	0	120	4500	-	0.007
pH	Field		8.11	7.20	7.69	7.55	-	7.17
	Lab		6.63	6.46	6.28	6.14	6.75	7.87
Conductivity	uS/cm		110	320	55	26	100	830
Total Suspended Solids	mg/L	1.0	1.7	2.6	<0.97	<0.99	7.1	2.0
Alkalinity (PP as CaCO ₃)	mg/L	1.0	<1.0	<1.0			<1.0	<1.0
Alkalinity (Total as CaCO ₃)	mg/L	1.0	22	20			29	130
Dissolved Chloride (Cl)	mg/L	1.0	<1.0	9.4			6.5	28
Dissolved Sulphate (SO ₄)	mg/L	1.0					3.0	280
Fecal Coliforms	MPN/100mL				<1	<1		
Total Ammonia (N)	mg/L	0.015	<0.015	<0.015			7.4	0.24
Dissolved Nitrite (N)	mg/L	0.010	<0.010	<0.010			<0.010	0.023
Dissolved Nitrate (N)	mg/L	0.010	0.14	0.79			0.16	0.56
Turbidity	NTU	0.10	3.7	0.86			10	2.0
Total Mercury (Hg)	ug/L	0.0019	0.0023	0.0073	0.0036	0.0019	<0.0019	<0.0019
Total Arsenic (As)	ug/L	0.020	3.44	1.74	0.219	0.049	1.77	1.33
Total Cadmium (Cd)	ug/L	0.0050	0.0140	0.0732	0.0131	<0.0050	0.077	0.467
Total Copper (Cu)	ug/L	0.0050	4.74	3.03	1.94	2.15	10.1	6.02
Total Lead (Pb)	ug/L	0.0050	0.314	0.0251	0.0139	0.0083	1.34	0.182
Total Nickel (Ni)	ug/L	0.020	2.30	7.84	2.06	2.79	3.6	3.61
Total Zinc (Zn)	ug/L	0.10	5.79	46.0	7.16	2.45	181	330
F2 (C10-C16 Hydrocarbons)	mg/L	0.10					<0.10	<0.10
F3 (C16-C34 Hydrocarbons)	mg/L	0.10					<0.10	0.16
F4 (C34-C50 Hydrocarbons)	mg/L	0.20					<0.20	<0.20
Benzene	ug/L	0.40					<0.40	<0.40
Toluene	ug/L	0.40					<0.40	<0.40
Ethylbenzene	ug/L	0.40					<0.40	<0.40
m & p-Xylene	ug/L	0.80					<0.80	<0.80
o-Xylene	ug/L	0.40					<0.40	<0.40
Xylenes (Total)	ug/L	0.89					<0.89	<0.89
F1 (C6-C10) - BTEX	ug/L	100					<100	<100
F1 (C6-C10)	ug/L	100					<100	<100

	Units	Detection Limits	ULU-8A	ULU-08	ULU-8A	ULU-9	ULU-11	ULU-8A
Date			01-July	03-July	07-July	11-Jul7	11-July	16-July
Flow	L/sec		0.023	0.035	0.0119	1.02	75.9	0.0182
pH	Field		7.27	6.74	7.45	6.92	7.42	7.37
	Lab		6.51	6.48	6.57	6.19	5.95	6.48
Conductivity	uS/cm	2	1000	880	990	100	42	910
Total Suspended Solids	mg/L	1	<1.0	<1.0	4.1	<1.0	<1.0	<1.0
Alkalinity (PP as CaCO ₃)	mg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO ₃)	mg/L	1	32	33	35	7.7	3.5	37
Dissolved Chloride (Cl)	mg/L	1	2.8	7.7	6.0	3.4	<1.0	13
Dissolved Sulphate (SO ₄)	mg/L	1.0-5.0	490	390	480	30	10	410
Fecal Coliforms	CFU/100mL	1				<1	<1	
Total Ammonia (N)	mg/L	0.015-0.075	0.30	0.037	0.54	<0.015	<0.015	0.76
Dissolved Nitrite (N)	mg/L	0.01	0.013	<0.010	<0.010	<0.010	<0.010	<0.010
Dissolved Nitrate (N)	mg/L	0.01	0.92	0.65	1.1	<0.010	<0.010	1.4
Turbidity	NTU	0.1	0.16	0.17	0.15	0.11	<0.10	1.0
Total Mercury (Hg)	ug/L	0.0019	0.0021	<0.0019	<0.0019	<0.0019	<0.0019	0.0034
Total Arsenic (As)	ug/L	0.020-0.10	2.38	1.12	2.33	0.287	0.069	2.45
Total Cadmium (Cd)	ug/L	0.010-0.0050	0.520	0.140	0.233	0.0156	0.0065	0.177
Total Copper (Cu)	ug/L	0.050-0.50	3.08	2.54	2.43	1.86	1.89	2.00
Total Lead (Pb)	ug/L	0.0050-0.20	0.142	0.0172	0.198	<0.020	<0.020	0.0723
Total Nickel (Ni)	ug/L	0.020-1.0	41.7	16.2	18.3	1.24	1.74	12.3
Total Zinc (Zn)	ug/L	0.10-5.0	290	97.4	116	2.2	4.0	84.2

APPENDIX E. WILDLIFE SIGHTING REPORT

Date Observed	Location	Wildlife Observed	Counts	Wildlife Activity	Additional Comments Gender, Age
June 5, 2023	Air strip area	Caribou	4	Resting	2 male, 2 female
June 5, 2023	Gravel Pit	Caribou	6	Resting	Female
June 5, 2023	Camp	Rabbit	1	Resting	unknown
June 6, 2023	Camp	Fox	1	trotting	unknown
June 8, 2023	Core shack	Siksik	1	Running	unknown
June 9, 2023	Between West Lake and Airstrip	Caribou	1	Walking	Very young
June 9, 2023	Lake G43	Duck	2	Swimming	unknown
June 9, 2023	500 m E of Camp	Rabbit	1	Eating	unknown
June 9, 2023	Core shack	Siksik	1	Running	unknown
June 10, 2023	Camp	Siksik	1	Curious standing	unknown
June 11, 2023	Between Landfill and East Lake	Siksik	1	Running	unknown
June 12, 2023	West of Rhino Lake	Caribou	3	Grooming	unknown
June 12, 2023	M4 Mapsheet	Rabbit	1	Running	Adult
June 12, 2023	Between Landfill and East Lake	Siksik	2	Curious standing	unknow
June 13, 2023	Ulu Camp	Rabbit	1	Running	Adult
June 14, 2023	Ulu Camp	Rabbit	1	Running	Adult
June 18, 2023	100 m N of Airstrip	Caribou	9	Grazing	2 male, 7 female, adult
June 21, 2023	SE Camp Pad	Rabbit	1	Running	Adult
June 21, 2023	5 km S of Ulu Camp	Siksik	1	Running	unknown
June 22, 2023	300 m S of Ulu Camp	Caribou	3	Grazing	unknown
June 22, 2023	North Penthouse	Caribou	1	Running	Juvenile
June 22, 2023	Ulu Camp	Caribou	3	Walking	unknown

June 22, 2023	200 m S of Ulu Camp	Rabbit	1	Hopping	Adult
June 23, 2023	400 m S of Ulu Camp	Caribou	1	Walking	Adult, male
June 23, 2023	300 m S of Ore Pad	Rabbit	1	Resting	Young
June 25, 2023	400 m N of Camp	Caribou	1	Trotting	Adult, male
June 25, 2023	South edge of property	Caribou	11	Out on iceylake	Na
June 25, 2023	300 m S of Camp	Rabbit	1	Hopping	Na
June 26, 2023	Portal	Caribou	1	Curious	Male, adult
June 27, 2023	Generator	Caribou	1	Trotting	Adult, male
June 27, 2023	Helicopter	Caribou	3	Na	Adult, Na
June 27, 2023	Landfilling	Caribou	2	Trotting	1 x male, 1 x female, adult
June 27, 2023	Portal	Caribou	1	Resting	Adult, male
July 1, 2023	Camp	Caribou	2	Grazing	Adult, 1 x m, 1 x f
July 1, 2023	Portal	Caribou	2	Walking	Adult, male
July 2, 2023	Camp	Caribou	2	Resting	Adult, 2 x m
July 6, 2023	1 km S of Camp	Caribou	1	Grazing	Adult, male
July 6, 2023	Camp	Fox	1	Curious	Adult, Na
July 7, 2023	Camp Pad	Caribou	1	Walking	Adult, male
July 7, 2023	James River, 4,5 km NE of Camp	Muskox	16	Walking	12 adult, 4 young
July 7, 2023	James River, 4,5 km NE of Camp	Wolf	2	Eating Muskox	Na
July 8, 2023	Ore pad	Caribou	1	Resting	Adult, male
July 8, 2023	Camp Pad	Rabbit	1	Eating	Adult, Na
July 9, 2023	East NFN	Caribou	2	Walking	Adult, 2 x m
July 11, 2023	Camp	Caribou	1	smugly walking	adult m
July 11, 2023	Ulu Lease	Caribou	1	curious	adult, m

July 12, 2023	Helicopter pad	Arctic Hare	1	checking new pilot	adult
July 12, 2023	Ore pad	Caribou	1	walking	adult m
July 12, 2023	Portal	Caribou	1	grazing	adult m
July 14, 2023	Ulu Camp	Arctic Hare	1	munching	adult
July 14, 2023	Ulu Camp	Arctic Hare	1	munching	adult
July 14, 2023	North Penthouse	Muskox	1	hanging out	unknown
July 15, 2023	Ulu Camp	Caribou	1	snoozing	unknown
July 15, 2023	Ulu Camp	Caribou	1	chilling	adult m
July 15, 2023	Ulu Camp	Caribou	1	wandering around	adult m
July 15, 2023	Ulu Camp	Fox	1	roaming	unknown
July 16, 2023	Hood River MEA	Grizzly Bear	4	meandering	adult f with 3 cubs
July 16, 2023	Hood River MEA	Moose	1	prancing	adult
July 17, 2023	Camp Pad	Caribou	1	Na	adult m
July 17, 2023	Helicopter pad	Caribou	1	chilling	adult m
July 17, 2023	Ulu Lease	Caribou	1	grazing	ulu south aj7, adult m
July 17, 2023	Ulu Lease	Muskox	12	grazing and watering	at river north of ulu guassite
July 18, 2023	Ulu Lease	Caribou	1	curious, scared off	ulu south aj7
July 18, 2023	Ulu Lease	Moose	1	curious	ulu south aj7
July 20, 2023	Ulu Lease	Boreal Owl	1	flew away upon accidental approach	unknown
July 20, 2023	Helicopter pad	Fox	1	curious	unknown
July 20, 2023	Portal	Ptarmigan	1	chilling	unknown
July 22, 2023	Ulu Camp	Fox	1	walking	unknown
July 22, 2023	Ulu camp	Caribou	2	resting	Adult, male
July 23, 2023	Camp Pad	Arctic Hare	1	quick	unknown
July 23, 2023	Helicopter pad	Caribou	1	walking	adult, male

July 23, 2023	Ulu Camp	Caribou	2	chill	adult, male
July 23, 2023	Hood River MEA	Siksik	1	running	unknown
July 25, 2023	Tent farm	Caribou	3	resting	unknown
July 25, 2023	1 km S of West Lake	Raven	4	squawking	unknown
July 25, 2023	1 km S of West Lake	Ravens	4	squawking	unknown
July 26, 2023	Tent farm	Caribou	3	resting	unknown
July 31, 2023	Quarry	Caribou	1	Walking	adult, male
Aug 1, 2023	Airstrip	Caribou	2	Grazing	adult, male