BACK RIVER PROJECT

2024 ANNUAL REPORT FOR WATER LICENCE 2BE-GOO2028

DATE
March 2025

REFERENCE
0704187

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2024 ANNUAL REPORT FOR WATER LICENCE 2BE-GOO2028

March 2025

Prepared by RainCoast Environmental Services Ltd.
for B2Gold Back River Corp.
Submitted to Nunavut Water Board

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EXECUTIVE SUMMARY – ENGLISH

B2Gold Back River Corp. (B2Gold Nunavut) has filed its Annual Report on its activities during 2024 under Water Licence No. 2BE-GOO2028 (the Licence) issued by the Nunavut Water Board (NWB; the Board). As set out in Part B, Item 2 of the Licence, the report includes information with respect to the following topics:

- A summary report of water use and waste disposal,
- A list of unauthorized discharges and a summary of follow-up actions taken,
- Any revisions to plans under this Licence,
- A description of all progressive and/or final reclamation work undertaken, if any, including photographic records of site conditions before, during, and after completion of operations,
- A report of any artesian flow occurrences,
- A summary of all information requested and the results of the monitoring program, and
- Any other details on water use or waste disposal requested by the Board.

ᐃᓇᐃᓈᖅᓯᒪᔪᖅ – ᐃᓄᒃᑎᑐᑦ ᑭᕙᓪᓚᕐᒥᑦ

B2Gold Back River Corp. (B2Gold Nunavut) ᑐᓂᐅᑎᖃᓚᐅᖅᑐᑦ ᐊᕐᕌᒍᑕᒫᖅᓯᐅᑎᒥᒃ ᐅᓂᑉᑳᒥᑦ ᖃᓄᐃᓕᐅᕐᓂᕆᔭᖕᒐᓐᓄᑦ 2024-ᒥᑦ ᒪᓕᒃᓗᒍ ᐃᒪᕐᒧᑦ ᓚᐃᓴᓐᓯ 2BE-GOO2028 (ᓚᐃᓴᓐᓯ) ᑐᓂᔭᐅᔪᖅ ᓄᓇᕗᒻᒥ ᐃᒪᓕᕆᔨᒃᑯᓐᓄᑦ. ᑎᑎᕋᖅᓯᒪᓂᖕᒐᑐᑦ ᐃᓚᒋᔭᐅᔪᖅ B ᑎᑎᖅᑲᖅ 2-ᒥᑦ ᓚᐃᓴᓐᓯᒥᑦ, ᐅᓂᑉᑳᕐᒥᑦ ᐃᓚᐅᔪᑦ ᑐᑭᓯᐅᒪᔾᔪᑏᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᐅᑯᓂᖖᒐᑦ ᐱᔾᔪᑕᐅᔪᓂᑦ:

- ᓇᐃᓈᖅᓯᒪᔪᖅ ᐅᓂᑉᑳᖅ ᐃᒪᕐᒥᒃ ᐊᑐᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐊᒃᑕᑰᕆᓂᕐᒧᑦ;
- ᑎᑎᕋᖅᓯᒪᔪᑦ ᐱᔪᖕᓇᖅᑎᑕᐅᓯᒪᖖᒋᑦᑐᑦ ᑯᕕᑦᑎᓃᑦ ᐊᒻᒪᓗ ᓇᐃᓈᖅᓯᒪᔪᖅ ᖃᐅᔨᒋᐊᖃᑦᑕᕐᓂᐅᓚᐅᖅᑐᑦ;
- ᐋᖅᑭᒋᐊᖅᓯᓂᖅᑕᖃᓚᐅᖅᐸᑦ ᐸᕐᓇᐅᑎᓄᑦ ᒪᓕᒃᓗᒍ ᑖᒻᓇ ᓚᐃᓴᓐᓯ;
- ᐅᖃᐅᓯᖃᖅᑐᖅ ᑕᒪᐃᓐᓂᓗᒃᑖᖅ ᐱᕙᓪᓕᐊᓂᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐅᕝᕙᓘᓐᓃᑦ ᑭᖕᒍᓕᖅᐹᒃᑯᑦ ᐅᑎᖅᑎᑎᕆᓂᐅᔪᑦ, ᐱᑕᖃᖅᐸᑦ, ᐃᓚᐅᑉᓗᑎᒃ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᑦ ᐸᐸᑕᐅᔪᑦ ᐃᓂᐅᔫᑉ ᖃᓄᐃᓐᓂᖕᒐᓄᑦ ᓯᕗᓂᐊᒍᑦ, ᐊᐅᓛᖅᑎᑦᑎᓂᐅᑎᓪᓗᒍ ᐊᒻᒪᓗ ᑭᖕᒍᓂᐊᒍᑦ ᐱᐊᓂᒃᑎᓪᓗᒋᑦ ᐊᐅᓛᖅᑎᑦᑎᓃᑦ;
- ᐅᓂᑉᑳᖅ ᐃᒪᖅᑲᐅᓯᕝᕕᖕᒥᑦ ᑯᕕᔪᖅᑲᓚᐅᖅᐸᑦ;
- ᓱᓇᑐᐃᓐᓇᐃᑦ ᐊᓯᖕᒋᑦ ᓇᓗᓇᐃᔭᖅᓯᒪᔪᑦ ᐃᒪᕐᒥᒃ ᐊᑐᕐᓂᕐᒧᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐊᒃᑕᑰᖅᑕᐅᔪᑦ ᑐᒃᓯᕋᐅᑕᐅᔪᑦ ᑲᑎᒪᔨᓄᑦ.

ATANGUYAT NAITTUMIK

B2Gold Back River Corp. (B2Gold Nunavut) initiqtait Ukiumi Uniudjutit hulidjutinun atuqtilugu 2024 ataani Imakkut Laisia No. 2BE-GOO2028 (Laisiq) tuniyauyuq hapkunanga Nunavunmi Imaliqiyiit Katimayiit (NWB; Katimayiit). Iliuraqtauhimayuq Ilangani B-mi, Huna 2 Laisikhami, taiguagakhaq ilaliutiyuq naunaitkutaq pimmariktumik piyuq hapkununnga uqaqtakhangit:

- Naittuq taiguagakhaq imaqmik aturninnga iqqakuniklu igitauyuq,
- Titiraqhimayut angiqtaungittut kuviyut naittumiklu talvannga piyakhangit,
- Ihuarhainiq ihumaliurutinut uumani Laisinik,
- Naunaiqhimayuq tamaita qanurittaakhaanik unalu/unaluuniit kingulliqpaaq piliuffaarninnga havaaq piyait, qujaginnaq, ilaujullu piksaliurnikkut titiqqat najugani qanurinniinni hivuagun, talvani, talvani, iniruiqhimaliqqatalu aulapkaidjutinik, unniudjuti kitulikaak hanaujaqtiit pidjutijun,
- Naittumik tamainnik ilitturipkaidjutinik tukhiqtauhimajunik qanurittuniklu amirinikkut pinahuarutimi, taimaalu
- Qujaginnait aallat naunaitkutit imakkut aturutainni iqqakunikluunniit igitaujun tukhiqtaujun Katimajiinnin.

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ACRONYMS AND ABBREVIATIONS

B2Gold Nunavut	B2Gold Back River Corporation
the Board, NWB	Nunavut Water Board
the Licence	Water Licence 2BE-GEO2028

1. INTRODUCTION

This report to the Nunavut Water Board (the Board; NWB) has been prepared to summarize the project activities and monitoring undertaken by B2Gold Back River Corp. (B2Gold Nunavut) during 2024, in accordance with Part B, Item 2 of Water Licence 2BE-GOO2028 (the Licence). This Licence was renewed on February 17, 2020, and will expire on February 18, 2028. The NWB Annual Report Form is provided in Appendix A.

Key activities associated with the Goose exploration project in 2024 are summarized as follows:

- Operation of the Goose exploration camp for exploration drilling and to support Water Licence 2AM-BRP1831 activities,
- Exploration drilling, and
- Drill site reclamation.

During 2024, fresh water was utilized for both exploration camp use and drilling activities. Potable water for the exploration camp was obtained from Goose Lake using a dedicated pump and transferred to water storage tanks at camp. Water for exploration drilling was obtained from Goose and Llama lakes.

Waste management included the handling of pacto waste, domestic waste in an incinerator, hazardous waste, and drill waste. Waste incineration and waste backhaul details are reported in the Annual Report for Water Licence 2AM-BRP1831.

Prior to seasonal cessation of drilling, B2Gold Nunavut reclaimed all 2024 drill sites. Materials removed from sites included any garbage, metal, and timbers, as well as anchors, and all casings were cut and capped. B2Gold Nunavut continues to exercise drilling procedures where sites are required to be cleaned up prior to completing the next drill site, and internal inspections are conducted to verify that clean up procedures are occurring. B2Gold Nunavut intends to continue to cut and restore historic drill sites as part of regular programs. Ongoing reclamation programs will be documented as conducted in previous years.

Community consultation undertaken by B2Gold Nunavut in 2024 is outlined in the Annual Report for Water Licence 2AM-BRP1831.

2. ANNUAL REPORT PER PART B, ITEM 2

This section of the report has been constructed to address each of the requirements of Part B, Item 2 of the Licence. For ease of comparison, each subheading corresponds directly with the identically alphabetized subheading of Part B, Item 2 of the Licence.

2.a Summary report of Water use and Waste disposal activities

Potable water was extracted from Goose Lake and pumped directly from Goose Lake via a pipe into holding tanks within the exploration camp. The intake is screened and meets Department of Fisheries and Oceans Freshwater Intake End of Pipe Fish Screen Guidelines requirements. Prior to consumption, potable water is treated with filtration, chlorination, and UV disinfection as needed. Appendix B summarizes daily water used for the Goose exploration camp, all of which was withdrawn from Goose Lake. Total annual exploration camp water usage was 2,565 m^3 and averaged 6.9 m^3/day with a maximum of 19.1 m^3/day (see Appendix B). There were no exceedances of the 30 m^3/day camp water use allotment stipulated in the Licence.

Drill water was obtained from Llama Lake and Goose Lake in 2024. Daily drill water usage by water source is provided in Appendix C. Exploration drilling took place from April 5 to November 21, 2024, with a maximum of four drills operating at a time. Total annual drill water usage was 41,151 m^3 and averaged 178.1 m^3/day with a maximum of 265.5 m^3/day. There were no exceedances of the 267 m^3/day drilling water use allotment stipulated in the Licence (see Appendix C).

The total water use allotment of 297 m^3/day stipulated in the Licence was not exceeded in 2024.

Wastes disposed of under this Licence include greywater, latrine, non-hazardous and hazardous wastes, and drill wastes. All waste storage area locations are provided in Table 2.f-2. Greywater generated at the Goose exploration camp consists of waste streams collected from the kitchen and camp washing facilities (showers and laundry). Grease traps are installed within the kitchen which removes solid particles prior to discharge. Greywater is discharged at two tundra locations at the Goose exploration camp located at a site away from surface water. At the Goose exploration camp, latrine toilets (pacto toilets) are used and collected human waste is disposed of in camp incinerators.

Non-hazardous waste streams consist of kitchen refuse, paper, recyclable food containers, cardboard, and inert wood. Kitchen refuse and paper are disposed of in two-stage commercial incinerators daily. Plastic and metal food containers that are deemed appropriate for recycling are shipped off site to an approved disposal facility in Yellowknife.

Hazardous wastes included waste hydrocarbon liquids, used batteries, and contaminated soil. Hazardous materials are sorted in a lined containment area and packaged to be shipped to Yellowknife. Once received in Yellowknife, KBL Environmental manages and properly disposes of hazardous wastes generated at the Goose exploration camp. Empty fuel drums are either stored on site for further use or shipped back to the supplier for recycling purposes. Remaining hazardous materials are stored within the lined containment area for future shipment from site.

Types and quantities of all solid wastes generated at the Back River Project and incinerated, open burned, backhauled for disposal, or stored in the on-site Temporary Quarry Landfill, including from the Goose exploration site, are detailed in the Annual Report for Water Licence 2AM-BRP1831.

There were three sumps where drill cuttings were deposited in 2024. Coordinates of cuttings disposal sites are provided in Table 2.f-2.

The drilling program utilizes a poly drill system whereby brine is recirculated, and cuttings are separated and collected in mega bags. Mega bags containing cuttings are kept in containment trays to avoid contamination of the tundra from overflow and remaining brine. Once full, mega bags are transported to the designated disposal site by an overland vehicle or helicopter.

2.b List of unauthorized discharges and a summary of follow-up actions taken

Two spills meeting or exceeding the NWT/NU spill reporting thresholds occurred in 2024 for exploration activities covered under this Licence. The first spill was a release of approximately 600 L of diesel on June 26, 2024, due to mechanical failure of a generator. The spill appeared to be due to faulty equipment (manufacturer defect). The generator was shut off and the spill was contained. Hand tools and a skid steer were used to excavate the contaminated soil, which was put into mega bags for off-site disposal. Sorbent materials used for spill clean-up were incinerated. The second spill was a release of approximately 250 L of diesel on December 13, 2024. The diesel leaked from a damaged fuel tank on a loader at the airstrip apron. The contaminated snow was put into mega bags for on-site treatment in the spring. Both spills were reported to the NT/NU Spills Reporting Line.

See the Type A Water Licence 2AM-BRP1831 Annual Report for a list of reportable spills associated with the Goose mine site in 2024.

2.c Any revisions to the Spill Contingency Plan, Abandonment and Restoration Plan and any other plans, submitted in the form of an addendum, including record of revisions, as required by Part B, Item 7

No management plans specific to this Licence were revised in 2024.

2.d Description of all progressive and/or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations

B2Gold Nunavut continues to exercise drilling procedures where sites are required to be cleaned up prior to initiating the next drill site, and internal inspections are conducted to confirm that clean up procedures are occurring. Cuttings Trench # 3 was also reclaimed in 2024. Restoration of historic drill sites will continue as practical. As in previous years, ongoing reclamation programs will continue to be documented.

2.e Report all artesian flow occurrences as required under Part F, Item 3

No artesian flows were encountered in 2024.

2.f Summary of all information requested and results of the Monitoring Program

No information requests were made in 2024.

Part J of the Licence, Conditions Applying to the Monitoring Program, indicates that the following information be included in the Annual Report:

1. **The Licensee shall maintain Monitoring Program Stations at GOO-1 (Raw Water supply intake at Goose Lake), GOO-2 (Final discharge point from Bulk Fuel Storage Facility), GOO-3 (Raw Water supply intake at Llama Lake), and GOO-4 (Raw Water supply intake at Umwelt Lake). Volumes are to be monitored at all four stations and water quality monitoring conducted at GOO-2.**

   Water usage for Goose exploration camp is presented in Appendix B. All camp raw water was sourced from Goose Lake (GOO-1) in 2024. There was no discharge from the Bulk Fuel Storage Facility (GOO-2) in 2024.

2. **The Licensee shall measure and record, in cubic metres, the daily quantities of Water utilized for camp, drilling and other purposes.**

   Daily water use for the Goose exploration camp is summarized in Appendix B and daily drill water usage is provided in Appendix C, by water source.

3. **The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of Water are utilized for all purposes.**

   Goose exploration project water source locations used in 2024 are provided in Table 2.f-1.

Table 2.f-1 Goose Exploration Project Water Source Locations

Description	UTM Coordinates (NAD83)		Latitude	Longitude
	Easting (m)	Northing (m)		
Goose Project				
Goose Camp Raw Water Intake	434,129	7,269,996	65° 32' 43.7"N	106° 25' 34.0"W
Llama Lake	428,790	7,272,028	65° 33' 45.2"N	106° 32' 33.7"W

4. **The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where Wastes associated with camp operations and drilling operations are deposited.**

   Goose exploration project waste storage locations are provided in Table 2.f-2.

Table 2.f-2 Goose Exploration Camp Waste Storage Locations

Description	UTM Coordinates (NAD83)		Latitude	Longitude
	Easting (m)	Northing (m)		
Goose Lake				
Grey Water Line	434,069	7,269,849	65° 32' 38.94"	106° 25' 38.35"
Grey Water Line #2	433,943	7,269,908	65° 32' 40.8"	106° 25' 48.3"
Incinerator	434,155	7,269,817	65° 32' 38.0"	106° 25' 31.6"
Hazardous Waste Backhaul Storage Area	433,840	7,270,021	65° 32' 44.3"	106° 25' 56.5"
Cuttings Trench (Reclaimed)	434,122	7,269,616	65° 32' 31.5"	106° 25' 33.8"
Cuttings Trench #2 (Reclaimed)	434,140	7,269,738	65° 32' 35.4"	106° 25' 32.6"
Cuttings Trench #3	434,120	7,269,738	65° 32' 35.3"	106° 25' 32.6"
Goose Cuttings Sump (Umwelt)	434,001	7,270,973	65° 33' 15.2"	106° 25' 45.6"
Goose Cuttings Sump (Sump 1&2)	429,147	7,271,847	65° 33' 39.7"	106° 32' 5.6"
Open Burn Pit	434,105	7,269,787	65° 32' 37.0"	106° 25' 35.4"
Hazardous Materials Storage Area	433,815	7,270,008	65° 32' 43.9"	106° 25' 58.4"
Goose Lake Fuel Farm	433,959	7,269,975	65° 32' 42.9"	106° 25' 47.2"
Major Drilling Oils/Additives Location #1	434,079	7,269,648	65° 32' 32.5"	106° 25' 37.2"
Major Drilling Oils/Additives Location #2	434,061	7,269,636	65° 32' 32.1"	106° 25' 38.6"

5. **The Licensee shall obtain representative samples of the Water column below any ice where required under Part F, Items 5 and 6.**

   Part F, Items 5 and 6 outlines water sampling requirements for on-ice drilling programs. Although on-ice drilling was carried out under this Licence in 2024 on Llama Lake, there was an oversight related to a change in B2Gold Nunavut staff and no water samples were collected for pre- and post-drilling comparison.

6. **All sampling, sample preservation and analysis shall be conducted in accordance with methods prescribed in the current edition of *Standard Methods for the Examination of Water and Wastewater*, or by such other methods approved by the Board in writing.**

   No sampling, preservation, or analysis was conducted under this Licence in 2024.

7. **All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.**

   No analyses were conducted under this Licence in 2024.

8. **The Licensee shall, during periods of flow and just after a major rainfall event, conduct Water quality testing immediately upstream and downstream of the Water crossings, any significant**

Water seeps in contact with the road and any flows originating from borrow pits or rock quarries on a monthly basis prior to construction, during the construction and upon completion, while testing for criteria listed under Part J, Item 5.

No sampling per Part J, Item 5 was required. Please see the Type A Water Licence 2AM-BRP1831 Annual Report for additional monitoring related to the Goose Property.

9. **The Licensee shall implement a Water crossing's visual inspection and maintenance program prior to, during spring freshet and after heavy rainfall events to identify issues related to watercourse crossings structural integrity and hydraulic function.**

   There are no water crossings currently applicable to this exploration Licence. Please see the Type A Water Licence 2AM-BRP1831 Annual Report for additional monitoring related to the Goose Property.

10. **The Licensee shall obtain a digital photographic record of all Water crossings before, during and after construction has been completed.**

    There are no water crossings applicable to this Licence. Please see the Type A Water Licence 2AM-BRP1831 Annual Report for additional monitoring related to the Goose Property.

11. **Additional monitoring requirements may be requested by the Inspector.**

    No additional monitoring was requested by the Inspector in 2024.

12. **The Licensee shall include in the Annual Report required under Part B, Item 2 all data, monitoring results and information required by this Part.**

    All required information is provided within this report and appendices.

2.g Any other details on Water use or Waste disposal requested by the Board by November 1 of the year being reported

No requests related to water use or waste disposal were made by the Board in 2024 in relation to this Licence.

APPENDIX A NWB ANNUAL REPORT FORM

NWB Annual Report **Year being reported:** Select 2024

License No: 2BE-GOO2028 **Issued Date:** February 19, 2020
Expiry Date: February 18, 2028

Project Name: Goose Lake, Back River Project

Licensee: B2Gold Nunavut

Mailing Address: Suite 3400, Park Place, 666 Burrard Street
Vancouver, British Columbia, Canada V6C 2X8

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

B2Gold Nunavut

General Background Information on the Project (*optional):

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

Part B Item 2

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): Goose Lake, Llama Lake

Water Quantity:

30	Quantity Allowable Domestic (cu.m/day)
19.1	Actual Quantity Used Domestic (max. cu.m/day)
267	Quantity Allowable Drilling (cu.m/day)
265.5	Total Quantity Used Drilling (max. cu.m/day)

Waste Management and/or Disposal

- [x] Solid Waste Disposal
- [x] Sewage
- [x] Drill Waste
- [x] Greywater
- [x] Hazardous
- [ ] Other:

Additional Details:

See Sections 2.a and 2.f of the 2024 Annual Report.

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)

See Section 2.b of the 2024 Annual Report.

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed

Additional Details:

See Section 2.c of the 2024 Annual Report.

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed

Additional Details:

See Section 2.c of the 2024 Annual Report.

Progressive Reclamation Work Undertaken

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

See Section 2.d of the 2024 Annual Report.

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 attached

Additional Details:

See Section 2.f of the 2024 Annual Report.

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:

See Section 2.f of the 2024 Annual Report.

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)

See Section 2.f of the 2024 Annual Report.

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)

See Section 2.g of the 2024 Annual Report.

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)

Any additional comments or information for the Board to consider

Date Submitted:	March 31, 2025	
Submitted/Prepared by:	Merle Keefe/Katsky Venter	
Contact Information:	**Tel:**	
	Fax:	
	email:	mkeefe@b2gold.com

APPENDIX B GOOSE EXPLORATION CAMP DAILY WATER USAGE

Table B-1 Goose Exploration Camp Daily Water Usage from Goose Lake (GOO-1)

Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)
01-Jan-24	3.9	23-Feb-24	5.2	16-Apr-24	4.2	8-Jun-24	8.2	31-Jul-24	7.2	22-Sep-24	8.9	14-Nov-24	6.9
2-Jan-24	4.1	24-Feb-24	4.9	17-Apr-24	5.3	09-Jun-24	7.4	1-Aug-24	8.4	23-Sep-24	7.2	15-Nov-24	7.0
03-Jan-24	4.7	25-Feb-24	5.6	18-Apr-24	9.6	10-Jun-24	6.2	02-Aug-24	8.7	24-Sep-24	7.6	16-Nov-24	5.3
4-Jan-24	3.9	26-Feb-24	6.3	19-Apr-24	4.8	11-Jun-24	9.7	3-Aug-24	7.4	25-Sep-24	7.5	17-Nov-24	6.4
05-Jan-24	4.3	27-Feb-24	0.0	20-Apr-24	6.8	12-Jun-24	6.7	04-Aug-24	7.9	26-Sep-24	6.5	18-Nov-24	5.4
6-Jan-24	3.5	28-Feb-24	6.4	21-Apr-24	8.3	13-Jun-24	9.6	5-Aug-24	7.7	27-Sep-24	7.5	19-Nov-24	7.5
07-Jan-24	2.8	29-Feb-24	7.4	22-Apr-24	5.9	14-Jun-24	8.3	06-Aug-24	7.1	28-Sep-24	9.2	20-Nov-24	7.9
8-Jan-24	2.4	01-Mar-24	4.9	23-Apr-24	4.1	15-Jun-24	8.5	7-Aug-24	7.6	29-Sep-24	6.4	21-Nov-24	7.0
09-Jan-24	3.3	2-Mar-24	5.3	24-Apr-24	8.4	16-Jun-24	6.5	08-Aug-24	7.5	30-Sep-24	7.7	22-Nov-24	8.1
10-Jan-24	2.9	03-Mar-24	6.6	25-Apr-24	10.5	17-Jun-24	7.6	9-Aug-24	7.4	01-Oct-24	9.0	23-Nov-24	6.9
11-Jan-24	4.3	4-Mar-24	5.1	26-Apr-24	7.6	18-Jun-24	9.0	10-Aug-24	7.1	2-Oct-24	7.0	24-Nov-24	7.8
12-Jan-24	5.6	05-Mar-24	7.0	27-Apr-24	8.6	19-Jun-24	8.3	11-Aug-24	7.7	03-Oct-24	10.6	25-Nov-24	7.4
13-Jan-24	5.6	6-Mar-24	7.6	28-Apr-24	7.7	20-Jun-24	8.7	12-Aug-24	5.2	4-Oct-24	11.3	26-Nov-24	8.4
14-Jan-24	5.6	07-Mar-24	6.8	29-Apr-24	8.2	21-Jun-24	8.1	13-Aug-24	5.4	05-Oct-24	7.6	27-Nov-24	6.6
15-Jan-24	5.6	8-Mar-24	7.2	30-Apr-24	6.7	22-Jun-24	8.1	14-Aug-24	7.1	6-Oct-24	8.1	28-Nov-24	8.9
16-Jan-24	5.6	09-Mar-24	7.4	1-May-24	10.7	23-Jun-24	7.1	15-Aug-24	6.5	07-Oct-24	5.9	29-Nov-24	9.5
17-Jan-24	5.6	10-Mar-24	5.6	02-May-24	8.4	24-Jun-24	8.8	16-Aug-24	7.0	8-Oct-24	8.9	30-Nov-24	6.7
18-Jan-24	10.7	11-Mar-24	7.4	3-May-24	6.2	25-Jun-24	8.6	17-Aug-24	7.6	09-Oct-24	9.0	1-Dec-24	5.4
19-Jan-24	17.5	12-Mar-24	8.7	04-May-24	7.4	26-Jun-24	8.5	18-Aug-24	7.2	10-Oct-24	6.0	02-Dec-24	7.1
20-Jan-24	2.9	13-Mar-24	8.9	5-May-24	7.0	27-Jun-24	8.1	19-Aug-24	7.1	11-Oct-24	7.8	3-Dec-24	7.9
21-Jan-24	3.0	14-Mar-24	8.6	06-May-24	7.2	28-Jun-24	6.6	20-Aug-24	8.5	12-Oct-24	7.6	04-Dec-24	7.8
22-Jan-24	7.9	15-Mar-24	6.5	7-May-24	8.1	29-Jun-24	6.3	21-Aug-24	6.9	13-Oct-24	7.2	5-Dec-24	7.6
23-Jan-24	5.2	16-Mar-24	2.5	08-May-24	7.6	30-Jun-24	7.9	22-Aug-24	8.9	14-Oct-24	5.5	06-Dec-24	8.3

Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)
24-Jan-24	5.8	17-Mar-24	8.7	9-May-24	11.3	01-Jul-24	7.4	23-Aug-24	8.6	15-Oct-24	8.5	7-Dec-24	7.4
25-Jan-24	4.9	18-Mar-24	6.5	10-May-24	7.7	2-Jul-24	7.8	24-Aug-24	7.4	16-Oct-24	7.5	08-Dec-24	7.9
26-Jan-24	6.3	19-Mar-24	5.4	11-May-24	7.4	03-Jul-24	7.1	25-Aug-24	5.5	17-Oct-24	7.7	9-Dec-24	9.6
27-Jan-24	6.9	20-Mar-24	8.3	12-May-24	8.0	4-Jul-24	10.2	26-Aug-24	7.0	18-Oct-24	7.6	10-Dec-24	8.8
28-Jan-24	5.9	21-Mar-24	6.4	13-May-24	8.9	05-Jul-24	7.4	27-Aug-24	7.0	19-Oct-24	7.9	11-Dec-24	7.3
29-Jan-24	5.2	22-Mar-24	6.7	14-May-24	8.4	6-Jul-24	6.8	28-Aug-24	8.1	20-Oct-24	7.2	12-Dec-24	5.4
30-Jan-24	8.7	23-Mar-24	7.7	15-May-24	8.3	07-Jul-24	6.4	29-Aug-24	8.6	21-Oct-24	6.8	13-Dec-24	5.5
31-Jan-24	10.2	24-Mar-24	5.8	16-May-24	10.2	8-Jul-24	9.2	30-Aug-24	6.9	22-Oct-24	8.1	14-Dec-24	6.1
1-Feb-24	6.2	25-Mar-24	6.4	17-May-24	8.8	09-Jul-24	7.0	31-Aug-24	6.8	23-Oct-24	9.4	15-Dec-24	6.1
02-Feb-24	3.0	26-Mar-24	8.0	18-May-24	10.6	10-Jul-24	6.8	01-Sep-24	6.7	24-Oct-24	7.2	16-Dec-24	7.7
3-Feb-24	5.1	27-Mar-24	7.8	19-May-24	7.3	11-Jul-24	8.8	2-Sep-24	6.2	25-Oct-24	8.3	17-Dec-24	7.1
04-Feb-24	2.4	28-Mar-24	8.6	20-May-24	6.7	12-Jul-24	7.4	03-Sep-24	6.1	26-Oct-24	7.7	18-Dec-24	6.4
5-Feb-24	1.5	29-Mar-24	8.2	21-May-24	9.2	13-Jul-24	7.4	4-Sep-24	6.3	27-Oct-24	7.7	19-Dec-24	6.1
06-Feb-24	1.2	30-Mar-24	6.7	22-May-24	9.1	14-Jul-24	7.3	05-Sep-24	6.5	28-Oct-24	8.7	20-Dec-24	5.1
7-Feb-24	3.7	31-Mar-24	6.9	23-May-24	7.7	15-Jul-24	8.5	6-Sep-24	8.1	29-Oct-24	8.6	21-Dec-24	5.9
08-Feb-24	4.7	1-Apr-24	8.1	24-May-24	5.5	16-Jul-24	7.5	07-Sep-24	6.9	30-Oct-24	8.3	22-Dec-24	13.2
9-Feb-24	3.9	02-Apr-24	7.1	25-May-24	7.7	17-Jul-24	9.0	8-Sep-24	7.7	31-Oct-24	8.8	23-Dec-24	3.8
10-Feb-24	3.0	3-Apr-24	5.0	26-May-24	8.9	18-Jul-24	8.8	09-Sep-24	7.5	1-Nov-24	8.9	24-Dec-24	5.2
11-Feb-24	2.5	04-Apr-24	4.2	27-May-24	9.1	19-Jul-24	8.8	10-Sep-24	6.2	02-Nov-24	7.2	25-Dec-24	3.8
12-Feb-24	1.7	5-Apr-24	4.3	28-May-24	9.9	20-Jul-24	7.1	11-Sep-24	6.4	3-Nov-24	8.9	26-Dec-24	3.5
13-Feb-24	1.9	06-Apr-24	3.9	29-May-24	9.6	21-Jul-24	9.1	12-Sep-24	6.9	04-Nov-24	14.0	27-Dec-24	3.6
14-Feb-24	2.9	7-Apr-24	4.3	30-May-24	11.0	22-Jul-24	6.7	13-Sep-24	6.6	5-Nov-24	12.6	28-Dec-24	3.2
15-Feb-24	2.6	08-Apr-24	4.8	31-May-24	6.3	23-Jul-24	8.4	14-Sep-24	8.8	06-Nov-24	11.7	29-Dec-24	4.5
16-Feb-24	1.8	9-Apr-24	7.5	01-Jun-24	7.0	24-Jul-24	6.1	15-Sep-24	8.4	7-Nov-24	7.2	30-Dec-24	3.1
17-Feb-24	2.2	10-Apr-24	8.0	2-Jun-24	8.3	25-Jul-24	8.0	16-Sep-24	6.5	08-Nov-24	8.5	31-Dec-24	4.6

Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)	Date	Volume (m^3)
18-Feb-24	1.9	11-Apr-24	7.4	03-Jun-24	9.0	26-Jul-24	8.0	17-Sep-24	7.1	9-Nov-24	3.6	**Average**	**6.9**
19-Feb-24	3.2	12-Apr-24	8.7	4-Jun-24	7.8	27-Jul-24	6.9	18-Sep-24	8.9	10-Nov-24	7.1	**Maximum**	**19.1**
20-Feb-24	4.3	13-Apr-24	8.1	05-Jun-24	5.2	28-Jul-24	5.8	19-Sep-24	8.1	11-Nov-24	6.7	**Annual Total**	**2,565**
21-Feb-24	3.1	14-Apr-24	7.3	6-Jun-24	7.0	29-Jul-24	4.2	20-Sep-24	8.0	12-Nov-24	9.1		
22-Feb-24	4.2	15-Apr-24	7.8	07-Jun-24	9.9	30-Jul-24	7.4	21-Sep-24	7.6	13-Nov-24	19.1		

Note: Data for January 12 to 17 were lost and were estimated as the mean of daily usage for January 1 to 11 and January 18 to 31.

APPENDIX C GOOSE DAILY DRILL WATER USAGE

Table C-1 Goose Daily Drill Water Usage

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
No drilling prior to 05-Apr-2024			
05-Apr-24	-	106.2	106.2
06-Apr-24	-	106.2	106.2
07-Apr-24	-	106.2	106.2
08-Apr-24	-	106.2	106.2
09-Apr-24	-	106.2	106.2
10-Apr-24	-	106.2	106.2
11-Apr-24	26.5	106.2	132.7
12-Apr-24	53.1	106.2	159.3
13-Apr-24	53.1	106.2	159.3
14-Apr-24	53.1	106.2	159.3
15-Apr-24	53.1	106.2	159.3
16-Apr-24	53.1	26.5	79.6
17-Apr-24	53.1	79.6	132.7
18-Apr-24	53.1	79.6	132.7
19-Apr-24	-	106.2	106.2
20-Apr-24	53.1	106.2	159.3
21-Apr-24	106.2	106.2	212.4
22-Apr-24	106.2	106.2	212.4
23-Apr-24	106.2	-	106.2
24-Apr-24	159.3	26.5	185.8
25-Apr-24	159.3	53.1	212.4
26-Apr-24	159.3	53.1	212.4
27-Apr-24	159.3	53.1	212.4
28-Apr-24	159.3	53.1	212.4
29-Apr-24	132.7	53.1	185.8
30-Apr-24	132.7	53.1	185.8
01-May-24	132.7	53.1	185.8
02-May-24	79.6	53.1	132.7

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
03-May-24	106.2	53.1	159.3
04-May-24	132.7	53.1	185.8
05-May-24	159.3	26.5	185.8
06-May-24	132.7	53.1	185.8
07-May-24	159.3	53.1	212.4
08-May-24	159.3	53.1	212.4
09-May-24	159.3	26.5	185.8
10-May-24	159.3	-	159.3
11-May-24	159.3	-	159.3
12-May-24	185.8	-	185.8
13-May-24	159.3	-	159.3
14-May-24	132.7	-	132.7
15-May-24	212.4	-	212.4
16-May-24	159.3	-	159.3
17-May-24	106.2	-	106.2
18-May-24	53.1	-	53.1
19-May-24	132.7	-	132.7
20-May-24	159.3	-	159.3
21-May-24	185.8	-	185.8
22-May-24	106.2	-	106.2
23-May-24	132.7	-	132.7
24-May-24	132.7	-	132.7
25-May-24	159.3	-	159.3
26-May-24	159.3	-	159.3
27-May-24	212.4	-	212.4
28-May-24	212.4	-	212.4
29-May-24	212.4	-	212.4
30-May-24	159.3	-	159.3
31-May-24	159.3	-	159.3
01-Jun-24	159.3	-	159.3
02-Jun-24	106.2	-	106.2

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
03-Jun-24	106.2	-	106.2
04-Jun-24	132.7	-	132.7
05-Jun-24	202.2	-	202.2
06-Jun-24	212.4	-	212.4
07-Jun-24	159.3	-	159.3
08-Jun-24	212.4	-	212.4
09-Jun-24	185.8	-	185.8
10-Jun-24	106.2	-	106.2
11-Jun-24	79.6	-	79.6
12-Jun-24	106.2	-	106.2
13-Jun-24	185.8	-	185.8
14-Jun-24	159.3	-	159.3
15-Jun-24	159.3	-	159.3
16-Jun-24	159.3	-	159.3
17-Jun-24	185.8	-	185.8
18-Jun-24	159.3	-	159.3
19-Jun-24	185.8	-	185.8
20-Jun-24	106.2	-	106.2
21-Jun-24	159.3	-	159.3
22-Jun-24	106.2	-	106.2
23-Jun-24	149.1	-	149.1
24-Jun-24	159.3	-	159.3
25-Jun-24	132.7	-	132.7
26-Jun-24	212.4	-	212.4
27-Jun-24	212.4	-	212.4
28-Jun-24	212.4	-	212.4
29-Jun-24	212.4	-	212.4
30-Jun-24	212.4	-	212.4
01-Jul-24	212.4	-	212.4
02-Jul-24	212.4	-	212.4
03-Jul-24	212.4	-	212.4

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
04-Jul-24	212.4	-	212.4
05-Jul-24	212.4	-	212.4
06-Jul-24	212.4	-	212.4
07-Jul-24	212.4	-	212.4
08-Jul-24	159.3	-	159.3
09-Jul-24	185.8	-	185.8
10-Jul-24	159.3	-	159.3
11-Jul-24	197.2	-	197.2
12-Jul-24	212.4	-	212.4
13-Jul-24	212.4	-	212.4
14-Jul-24	212.4	-	212.4
15-Jul-24	212.4	-	212.4
16-Jul-24	212.4	-	212.4
17-Jul-24	212.4	-	212.4
18-Jul-24	212.4	-	212.4
19-Jul-24	212.4	-	212.4
20-Jul-24	212.4	-	212.4
21-Jul-24	212.4	-	212.4
22-Jul-24	212.4	-	212.4
23-Jul-24	185.8	-	185.8
24-Jul-24	212.4	-	212.4
25-Jul-24	212.4	-	212.4
26-Jul-24	212.4	-	212.4
27-Jul-24	212.4	-	212.4
28-Jul-24	212.4	-	212.4
29-Jul-24	212.4	-	212.4
30-Jul-24	212.4	-	212.4
31-Jul-24	212.4	-	212.4
01-Aug-24	212.4	-	212.4
02-Aug-24	212.4	-	212.4
03-Aug-24	212.4	-	212.4

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
04-Aug-24	212.4	-	212.4
05-Aug-24	212.4	-	212.4
06-Aug-24	212.4	-	212.4
07-Aug-24	212.4	-	212.4
08-Aug-24	212.4	-	212.4
09-Aug-24	212.4	-	212.4
10-Aug-24	212.4	-	212.4
11-Aug-24	212.4	-	212.4
12-Aug-24	212.4	-	212.4
13-Aug-24	212.4	-	212.4
14-Aug-24	212.4	-	212.4
15-Aug-24	185.8	-	185.8
16-Aug-24	212.4	-	212.4
17-Aug-24	185.8	-	185.8
18-Aug-24	185.8	-	185.8
19-Aug-24	159.3	-	159.3
20-Aug-24	159.3	-	159.3
21-Aug-24	185.8	-	185.8
22-Aug-24	212.4	-	212.4
23-Aug-24	212.4	-	212.4
24-Aug-24	212.4	-	212.4
25-Aug-24	212.4	-	212.4
26-Aug-24	185.8	-	185.8
27-Aug-24	185.8	-	185.8
28-Aug-24	159.3	-	159.3
29-Aug-24	159.3	-	159.3
30-Aug-24	159.3	26.5	185.8
31-Aug-24	212.4	53.1	265.5
01-Sep-24	212.4	53.1	265.5
02-Sep-24	212.4	53.1	265.5
03-Sep-24	132.7	-	132.7

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
04-Sep-24	212.4	-	212.4
05-Sep-24	159.3	53.1	212.4
06-Sep-24	159.3	53.1	212.4
07-Sep-24	132.7	53.1	185.8
08-Sep-24	132.7	53.1	185.8
09-Sep-24	159.3	53.1	212.4
10-Sep-24	159.3	26.5	185.8
11-Sep-24	159.3	-	159.3
12-Sep-24	212.4	-	212.4
13-Sep-24	212.4	-	212.4
14-Sep-24	212.4	-	212.4
15-Sep-24	212.4	-	212.4
16-Sep-24	212.4	-	212.4
17-Sep-24	212.4	-	212.4
18-Sep-24	185.8	-	185.8
19-Sep-24	212.4	-	212.4
20-Sep-24	185.8	-	185.8
21-Sep-24	132.7	-	132.7
22-Sep-24	106.2	-	106.2
23-Sep-24	106.2	-	106.2
24-Sep-24	148.7	-	148.7
25-Sep-24	106.2	-	106.2
26-Sep-24	185.8	-	185.8
27-Sep-24	185.8	-	185.8
28-Sep-24	212.4	-	212.4
29-Sep-24	186.6	-	186.6
30-Sep-24	159.3	-	159.3
01-Oct-24	185.8	-	185.8
02-Oct-24	212.4	-	212.4
03-Oct-24	185.8	-	185.8
04-Oct-24	185.8	-	185.8

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
05-Oct-24	212.4	-	212.4
06-Oct-24	212.4	-	212.4
07-Oct-24	212.4	-	212.4
08-Oct-24	159.3	-	159.3
09-Oct-24	159.3	-	159.3
10-Oct-24	159.3	-	159.3
11-Oct-24	126.3	-	126.3
12-Oct-24	104.3	-	104.3
13-Oct-24	143.2	-	143.2
14-Oct-24	159.4	6.7	166.1
15-Oct-24	158.0	45.6	203.6
16-Oct-24	163.3	57.7	221.0
17-Oct-24	159.4	55.3	214.7
18-Oct-24	173.2	45.7	218.9
19-Oct-24	176.0	55.1	231.2
20-Oct-24	112.3	56.5	168.9
21-Oct-24	123.9	52.5	176.4
22-Oct-24	133.3	60.0	193.3
23-Oct-24	183.8	56.1	239.9
24-Oct-24	194.5	56.1	250.7
25-Oct-24	186.4	57.4	243.8
26-Oct-24	174.5	64.6	239.1
27-Oct-24	182.4	31.2	213.7
28-Oct-24	161.2	58.3	219.5
29-Oct-24	14.6	14.2	28.8
30-Oct-24	93.8	23.4	117.3
31-Oct-24	182.8	61.1	243.8
01-Nov-24	149.0	39.9	188.8
02-Nov-24	150.0	58.9	208.9
03-Nov-24	140.0	57.6	197.6
04-Nov-24	101.9	57.3	159.2

Date	Daily Water Use from Goose Lake (m^3)	Daily Water Use from Llama Lake (m^3)	Total Daily Water Use (m^3)
05-Nov-24	102.2	57.1	159.3
06-Nov-24	114.1	29.1	143.2
07-Nov-24	155.5	-	155.5
08-Nov-24	103.9	-	103.9
09-Nov-24	151.3	-	151.3
10-Nov-24	144.0	-	144.0
11-Nov-24	151.4	-	151.4
12-Nov-24	127.9	-	127.9
13-Nov-24	136.1	-	136.1
14-Nov-24	138.6	-	138.6
15-Nov-24	133.1	-	133.1
16-Nov-24	141.9	-	141.9
17-Nov-24	129.2	-	129.2
18-Nov-24	157.3	-	157.3
19-Nov-24	180.3	-	180.3
20-Nov-24	140.0	-	140.0
21-Nov-24	94.9	-	94.9
End of drilling			
Average			**178.1**
Maximum			**265.5**
Annual Total			**41,151**