



Telephone: 867-767-9187 ex. 24193
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July 8, 2024

Nighthawk Gold Corp.
130 King Street West, Suite 2120
P.O. Box 221
Toronto, ON M5X 1C8

Attention: Gabriel Waychison

File Number	W2021L2-0004
Type of Operation	CLASS A - MINING AND MILLING
Location	Damoti Lake, NT

Dear Mr. Gabriel Waychison,

An inspection of the above noted operation was conducted on June 6, 2024, by Water Resource Officers Meaghan MacIntyre-Newell and Nahum Lee. Enclosed is a copy of the Water Use Inspection Report; no major concerns were noted. If you have any questions, please contact me at 867-767-9187 ex. 24193

Sincerely,

Meaghan MacIntyre-Newell
Water Resource Officer
Environment and Climate Change
North Slave Region

Cc: Wendy Bidwell – Senior Water Resource Office – ECC
Scott Stewart – North Slave Regional Superintendent – ECC
Rick Walbourne – Water Regulatory Manager – ECC
Kassandra DeFrancis – Regulatory Specialist – WLWB



WATER USE INSPECTION REPORT

LICENCE #:	W2021L2-0004	EXPIRY DATE:	January 12, 2038
LICENCEE:	Nighthawk Gold Corp.	PREVIOUS INSPECTION:	September 20, 2023
COMPANY REP:	Gabriel Waychison	INSPECTION DATE:	June 6, 2024

WATER SUPPLY

Source:	Damoti Lake	Quantity Used:	None
Owner/Operator:	Nighthawk Gold Corp.	Meter Reading:	N/A

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

Intake Facilities	N/A	Storage Structures	N/A	Treatment Systems	N/A	Recycling	N/A
Flow Meas. Device	N/A	Conveyance Lines	N/A	Pumping Stations	N/A	Chem. Storage	N/A
						Modifications	N/A

Water Supply Comments:

The water supply had not been used at the time of Inspection.

WASTE DISPOSAL – MINING – OTHER

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

Ore & Waste Rock Stockpiles	A	Chemical Storage	N/A
Ground Water Discharge	A	Mine Water Discharge	N/A

Mining-Other Comments:

There was no infrastructure between the portal opening and the mine water settling pond to allow Nighthawk to Discharge water from the underground. The mine water settling pond was dry and had not been used since the last inspection (Figure 1).

SURVEILLANCE NETWORK PROGRAM

Samples Collected Licencee	No
Samples Collected ENR	Yes (5-6)

Signs Posted: SNP	Yes	Warning	No
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WATER USE INSPECTION REPORT

Surveillance Network Program Comments:

An SNP sample was collected at SNP Station 5-6 (Figure 2). It was noted that the sample collected by the Inspectors reported 59 mg/L of Total Suspended Solids (TSS). The TSS measured by the Inspectors exceeded the maximum average concentration and maximum concentration of any grab sample required by Part F, Condition 12(a) of the Licence. Results can be found in Attachment 1. The Inspector recommends monitoring the TSS concentrations throughout the 2024 open water seasons to determine if there are any trends occurring. It was noted that the location of SNP Station 5-6 is within a vegetation dense area with limited ability to obtain a sample without disturbing the sediment and vegetation. If exceedances continue, additional sampling and/or investigation may be required.

On September 9, 2022, historic SNP station 5-10 was infilled after many issues with pH. During the Inspection, the inspector noted some surface discoloration at the location of SNP Station 5-10 and there was some surface water pooling (Figure 3). The Inspector recommends monitoring the progression of surface discoloration to ensure there are no residual impacts from infilling SNP Station 5-10.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

C & R Plan	A	Records & Reporting	A	Final Report	A
Geotechnical Inspection	N/A	Posting, Signage	A	Contingency Plan	A
Restorations Activities	A	Spills	N/A	O&M Plan	N/A
Maintenance	A	Modifications	A	Annual Report	A

General Condition Comments:

Nighthawk has efficiently addressed all issues raised in the previous Inspection. No concerns were noted.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

1. **Part F, Condition 12(a):** The Licensee shall ensure that all water or Wastes from the Project that enters the Receiving Environment at Surveillance Network Program station 5-6 has a pH value between 5.5 and 9.5 and meets the following Effluent Quality Criteria (EQC):

PARAMETER	MAXIMUM AVERAGE CONCENTRATION (mg/L)	MAXIMUM CONCENTRATION OF ANY GRAB SAMPLE (mg/L)
Total Ammonia	12.0	-
Total Arsenic	0.1	0.2
Total Cadmium	0.001	0.002
Total Copper	0.01	0.02
Total Lead	0.02	0.04
Total Nickel	0.25	0.5
Total Zinc	0.1	0.2
Total Suspended Solids	15	30



WATER USE INSPECTION REPORT

Explanatory Remarks: The sample collected by the Inspector measured TSS as 59 mg/L which exceeds the maximum average concentration and the maximum concentration of any grab sample. At this time, the Inspector recommends monitoring TSS measured throughout the 2024 open water season to determine if there are any trends. If exceedances are consistent throughout 2024, additional sampling and/or investigation may be required.

Inspector’s Signature: _____



WATER USE INSPECTION REPORT

INSPECTION IMAGES

Figure 1. Settling Pond.



Figure 2. SNP Station 5-6.





WATER USE INSPECTION REPORT

Figure 3. Location of Historical SNP Station 5-10.





WATER USE INSPECTION REPORT

Attachment 1
SNP Sampling Results



Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
240729

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **5-6**

Taiga Sample ID: **004**

Client Project: W2021L2-0004

Sample Type: Freshwater

Received Date: 07-Jun-24

Sampling Date: 06-Jun-24

Sampling Time:

Location: Damoti Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.008	0.005	mg/L	13-Jun-24	TEL068	
Phosphorous, Total	0.091	0.002	mg/L	12-Jun-24	TEL069	
<u>Inorganics - Physicals</u>						
Solids, Total Suspended	59	3	mg/L	11-Jun-24	TEL008	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	08-Jun-24	TEL055	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2	mg/L	17-Jun-24	TEL072	
<u>Trace Metals, Dissolved</u>						
Arsenic	0.7	0.2	µg/L	18-Jun-24	TEL035	
Cadmium	< 0.04	0.04	µg/L	18-Jun-24	TEL035	
Copper	1.9	0.2	µg/L	18-Jun-24	TEL035	
Lead	< 0.1	0.1	µg/L	18-Jun-24	TEL035	
Nickel	22.1	0.1	µg/L	18-Jun-24	TEL035	
Zinc	5.3	0.4	µg/L	18-Jun-24	TEL035	
<u>Trace Metals, Total</u>						

ReportDate: June 26, 2024

Print Date: **June 26, 2024**

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Taiga Batch No.:

240729

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **5-6**

Taiga Sample ID: **004**

Arsenic	1.0	0.2	µg/L	18-Jun-24	TEL035
Cadmium	< 0.04	0.04	µg/L	18-Jun-24	TEL035
Copper	3.0	0.2	µg/L	18-Jun-24	TEL035
Lead	0.2	0.1	µg/L	18-Jun-24	TEL035
Nickel	24.9	0.1	µg/L	18-Jun-24	TEL035
Zinc	6.7	0.4	µg/L	18-Jun-24	TEL035

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **5-6**

Taiga Sample ID: **004**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

81 *Results are inconclusive due to insufficient depletion of sample, minimum 2 mg/L required over 5 days.*

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

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