



Viridis Minerals & Mining
(Application for a new Water Licence)

Document Date: **November 2022**

Application Submission Date: **11/20/22**
Month/Day/Year

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NUNAVUT IMALIRIYIN KATIMAYIT
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT



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GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: *Guide to Completing and Submitting a Water Licence Application for a New Licence* for more information about this application form.

LICENCE NO:

(for NWB use only)

1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)

Viridis Minerals and Mining Inc

Contact: Agha Shahzad Pervez

2900 - 550 BARRARD STREET

VANCOUVER BC

V6C 0A3

Phone: 61 3 9071 1847

Fax: _____

e-mail: agha@viridismining.com.au

Parent company:

Viridis Minerals and Mining LIMITED

Contact: Agha Shahzad Pervez

Level 50, 108 St Georges Terrace

Perth, WA 6000

Australia

2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)

Aurora Geosciences Ltd.

Contact: Dave White or Sharleen Hamm

3506 McDonald Drive

Yellowknife, NT

X1A 2H1

Email: dave.white@aurorageosciences.com,

Sharleen.hamm@aurorageosciences.com

Phone: 867-920-2729

Fax: _____

e-mail: _____

(Attach authorization letter.)

3. NAME OF PROJECT (including the name of the project location)

South Kitikmeot Gold Project

4. LOCATION OF UNDERTAKING

Project Extents

Corner	DMS Latitude	DMS Longitude	DD Latitude	DD Longitude
<u>NE</u>	<u>66° 17' 43.00468668" N</u>	<u>104° 53' 42.89987928" W</u>	<u>66.29527908</u>	<u>-104.89525</u>
<u>SE</u>	<u>64° 34' 24.18204005" N</u>	<u>105° 17' 05.14137629" W</u>	<u>64.5733839</u>	<u>-105.2847615</u>
<u>SW</u>	<u>64° 40' 53.78904492" N</u>	<u>111° 51' 08.15148411" W</u>	<u>64.68160807</u>	<u>-111.8522643</u>
<u>NW</u>	<u>66° 24' 44.87070160" N</u>	<u>111° 54' 38.76169536" W</u>	<u>66.41246408</u>	<u>-111.9107671</u>

Camp Location(s)

Historic Camp location, likely planned for use in Year 1:

DMS Lat	DMS Long
65° 01' 50.68354500" N	108° 38' 17.14112195" W

Alternate camp locations may be used in future years

5. MAP - Attach a topographical map, indicating the main components of the undertaking.

Attached

NTS Map Sheet No.: _____ Map Name: _____

076A11, 076A12, 076A13, 076A14, 076B09 TOURGIS LAKE, 076B10, 076B11, 076B12, 076B13, 076B14, 076B15, 076B16, 076C13 HARDY LAKE, 076C14, 076C15 THISTLE LAKE, 076C16 THLEWYCHO LAKE, 076E01, 076E07, 076E08, 076E09, 076E10, 076E11 FINGERS LAKE, 076E12 CONCESSION LAKE, 076E13, 076E14 UNIT LAKE, 076E15, 076E16, 076F01 KEISH LAKE, 076F02, 076F03 GHURKA LAKE, 076F04, 076F05, 076F06, 076F07, 076F08, 076F09, 076F10, 076F11, 076F12, 076F13, 076F14, 076F15, 076F16, 076G01, 076G02 CASEY LAKE, 076G03 MALLEY RAPIDS, 076G04 REGAN LAKE, 076G05, 076G06, 076G07 BEECHEY LAKE, 076G08, 076G09, 076G10, 076G11, 076G12, 076G13, 076G14, 076G15, 076G16, 076H03, 076H04, 076H05, 076H06, 076H11, 076H12, 076H13, 076I04, 076J01, 076J02, 076J03 BATHURST LAKE, 076J04, 076J05 AMAGOK CREEK, 076J06 KENYON LAKE, 076J07, 076K01, 076K02, 076K03, 076K04, 076K05, 076K06 KUUVIK LAKE, 076K07, 076K08, 076L01, 076L02 KATHAWACHAGA LAKE.

Map Scale: 1:50,000

6. NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

Surface

☒ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____
Application in process

☒ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
Date (expected date) of issuance: _____ Date of expiry: _____
Application in process

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Commissioner's Land Use Authorization
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Other: _____
Date (expected date) of issuance: _____ Date of expiry: _____

Name of entity(s) holding authorizations:

Viridis Minerals and Mining Inc

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Indicate the land use planning area in which the project is located.

☐ North Baffin ☐ Keewatin
☐ South Baffin ☐ Sanikiluaq
☐ Akunnig ☒ West Kitikmeot

Is a land use plan conformity determination required?

☒ Yes ☐ No

If Yes, indicate date issued and attach copy October 18, 2022

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

☒ Yes ☐ No

If Yes, indicate date issued and attach copy In progress (22EN057)

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

See attached Project Description

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

See attached Project Description

11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.

☐ Industrial ☐ Agricultural
☒ Mining and Milling (includes exploration/drilling/exploration camps)
☐ Conservation
☐ Municipal (includes camps/lodges) ☐ Recreational
☐ Power ☐ Miscellaneous (describe below):

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings.

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.

- ☐ Hydrostatic Testing
- ☐ Tannery
- ☐ Tourist / Remote Camp
- ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- ☐ Onshore Oil and Gas Exploration Drilling
- ☒ Mineral Exploration / Remote Camp
- ☐ Advanced Exploration
- ☐ Mine Development
- ☐ Municipal
- ☐ General Water Works
- ☐ Power

12. WATER USE - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

- ☒ To obtain water for camp/ municipal purposes
- ☒ To obtain water for industrial purposes
- ☐ To divert a watercourse
- ☐ To cross a watercourse
- ☐ To modify the bed or bank of a watercourse
- ☐ To alter the flow of, or store water
- ☐ Flood control
- ☐ Other: _____

13. QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.

Name of water source(s) (show location(s) on map):

Various lakes proximal to drill targets and temporary camp locations

Describe the quality of the water source(s) and the available capacity:

Quality has not been assessed and is assumed to be pristine.

Quantity has not been assessed; use will not exceed 10% available capacity, wherein capacity will be assessed in advance of use

Provide the overall estimated quantity of water to be used: up to 299 m³/day

Provide the estimated quantity(s) of water to be used from each source:

Various depending on number of persons in camp and drilling conditions

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)

Up to 14 m³/day domestic (camp)

Up to 285 m³/day industrial (drilling, core cutting, ice pad construction, ice strip maintenance)

Describe the method of extraction(s): pump with a screened intake

Estimated quantity(s) of water returned to source(s) Various m³/day

Describe the quality of water(s) returned to source(s): <u>Unimpacted</u>																																		
<p>14. WASTE – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><input checked="" type="checkbox"/> Sewage</p> <p><input checked="" type="checkbox"/> Solid Waste</p> <p><input checked="" type="checkbox"/> Hazardous</p> <p><input checked="" type="checkbox"/> Bulky Items/Scrap Metal</p> <p><input type="checkbox"/> Animal Waste</p> <p><input checked="" type="checkbox"/> Other (describe): <u>Drill cuttings</u></p> </div> <div style="width: 45%;"> <p><input checked="" type="checkbox"/> Waste oil</p> <p><input checked="" type="checkbox"/> Greywater</p> <p><input type="checkbox"/> Sludges</p> <p><input checked="" type="checkbox"/> Contaminated soil and/or water</p> </div> </div>																																		
<p>15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal. <u>See Waste Management Plan</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="padding: 5px;">Type of Waste</th> <th style="padding: 5px;">Composition</th> <th style="padding: 5px;">Quantity Generated</th> <th style="padding: 5px;">Treatment Method</th> <th style="padding: 5px;">Disposal Method</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"></td><td></td><td></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>					Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method																									
Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method																														
<p>16. OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. <u>None</u></p> <p>For each provide the following:</p> <p>Authorization: _____</p> <p>Administering Agency: _____</p> <p>Project Activity: _____</p> <p>Date (expected date) of issuance: _____ Date of expiry: _____</p>																																		
<p>17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste. <u>Impacts are subject to screening-level assessment by the NIRB.</u> <u>See attached Effects Assessment.</u></p> <div style="height: 150px; border: 1px solid black; margin-top: 10px;"></div>																																		

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

None known.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

None.

19. INUIT WATER RIGHTS

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

No impacts anticipated. Water use fees will be paid to the Kitikmeot Inuit Association as applicable.

20. CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

See attached Engagement Log

21. SECURITY INFORMATION

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

Not applicable. Any security required by the KIA related to activities on IOL will be issued pursuant to a land use licence.

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

See attached Certificates of Incorporation and lists of officers for the Applicant (Viridis Minerals and Mining Inc.) and its parent company (Viridis Minerals and Mining LIMITED), as well as the audited financial statements for the parent company.

23. STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.

See attached:

- Mining Insights. 2021. Independent Geologist Report prepared for Viridis Mining and Minerals Limited.
- Aurora Geosciences Limited. 2016. Geological Mapping, Prospecting & Geophysical Surveys at the Esker Lake Property NTS: 76 F 02 Nunavut Mining District, Nunavut, Canada.

24. PROPOSED TIME SCHEDULE – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: 01/2023 Proposed Completion Date: 12/20219
(month/year) (month/year)

Operation

Proposed Start Date: 01/2023 Proposed Completion Date: 12/20219
(month/year) (month/year)

Closure

Proposed Start Date: 01/2023 Proposed Completion Date: 12/20219
(month/year) (month/year)

Post - Closure

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Activities will be intermittent and may occur at any time of the year

Construction

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☒ All season

Operation

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☒ All season

Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☒ All season

Post - Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

25. PROPOSED TERM OF LICENCE

Number of years (maximum of 25 years): 7 (seven) years

Requested Date of Issuance: 01/23 Requested Expiry Date: 12/29
(month/year) (month/year)

(The requested date of issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

26. ANNUAL REPORTING – If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

The Standard Form will be used

27. CHECKLIST – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

☒ Yes ☐ No If no, date expected _____

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

☐ Yes ☒ No If no, date expected December 2022

Completed General Water Licence Application form.

☒ Yes ☐ No If no, date expected _____

Information addressing Supplemental Information Guideline (SIG), where applicable (see Block 11)

☒ Yes ☐ No If no, date expected _____

English Summary of Application.

☒ Yes ☐ No If no, date expected _____


Inuktitut and/or Inuinnaqtun Summary of Application.

☒ Yes ☐ No If no, date expected _____

Application Fee of \$30.00 CDN (Payee Receiver General for Canada).

☐ Yes ☒ No If no, date expected Issued, sent via Canada Post

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in

accordance with the Regulations at the time of issuance of the licence.			
<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	If no, date expected <u>Issued, sent via Canada Post</u>
<hr/>			
28. SIGNATURE			
<u>Agha Shahzad Pervez</u>	<u>Executive Chairman</u>		16 November 22
Name (Print)	Title (Print)	Signature	Date