



General Water Licence Application  
(Application for a new Water Licence)

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## **DOCUMENT MANAGEMENT**

Original Document Date:                      April 2010

### **DOCUMENT AMENDMENTS**

	<b>Description</b>	<b>Date</b>
(1)	Updated for public distribution as separate document from NWB Guide 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	Update NWB logo	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



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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.

<b>LICENCE NO:</b> (for NWB use only)													
<p><b>1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION</b> (name, address)</p> <p><b>Dunnedin Ventures Inc</b> 302-750 West Pender Street Vancouver, B.C. V6C 2T7</p> <p>Phone: 604 681 0084 _____ Fax: 604 681 0094 _____ e-mail: kemp_656@hotmail.com _____</p>	<p><b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)</p> <p><b>Coast Mountain Geological Ltd</b> 620-650 West Georgia Street Vancouver, B.C. V6B 4N9</p> <p>Phone: 604 681 0209 _____ Fax: 604 687 4670 _____ e-mail: kemp_656@hotmail.com _____ (Attach authorization letter.)</p>												
<p><b>3. NAME OF PROJECT</b> (including the name of the project location)</p> <p><b>Kahuna Diamond Project located in the Kivalliq Region of Nunavut.</b></p>													
<p><b>4. LOCATION OF UNDERTAKING</b></p> <p><b>Project Extents</b></p> <table> <tr> <td><b>NW:</b></td> <td><b>Latitude: (63°12'18.89"N)</b></td> <td><b>Longitude: (91°29'14.38"W)</b></td> </tr> <tr> <td><b>NE:</b></td> <td><b>Latitude: (63°12'26.27"N)</b></td> <td><b>Longitude: (90°56'36.93"W)</b></td> </tr> <tr> <td><b>SE:</b></td> <td><b>Latitude: (63°02'58.96"N)</b></td> <td><b>Longitude: (90°56'30.39"W)</b></td> </tr> <tr> <td><b>SW:</b></td> <td><b>Latitude: (62°59'53.86"N)</b></td> <td><b>Longitude: (91°29'3.18"W)</b></td> </tr> </table> <p><b>Camp Location(s) NA</b></p> <p>Latitude: (   °   '   " N)                      Longitude: (   °   '   " W)</p>		<b>NW:</b>	<b>Latitude: (63°12'18.89"N)</b>	<b>Longitude: (91°29'14.38"W)</b>	<b>NE:</b>	<b>Latitude: (63°12'26.27"N)</b>	<b>Longitude: (90°56'36.93"W)</b>	<b>SE:</b>	<b>Latitude: (63°02'58.96"N)</b>	<b>Longitude: (90°56'30.39"W)</b>	<b>SW:</b>	<b>Latitude: (62°59'53.86"N)</b>	<b>Longitude: (91°29'3.18"W)</b>
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<p><b>5. MAP</b> - Attach a topographical map, indicating the main components of the undertaking.</p>													

NTS Map Sheet No.: **550** Map Name: **Chesterfield Inlet**  
Map Scale: **1:250,000**

**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: **AANDC Amendment application in Progress. Date of expiry: Pending Notification.**

Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

IOL Authorization from Kivalliq Inuit Association (KivIA)  
Date (expected date) of issuance: **KIA Class III Land Use Application in Progress. Date of expiry: Pending Notification**

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:  
**Will be held by Dunnedin Ventures Inc**

**7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION**

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

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> North Baffin | <input checked="" type="checkbox"/> <b>Keewatin</b> |
| <input type="checkbox"/> South Baffin | <input type="checkbox"/> Sanikiluaq                 |
| <input type="checkbox"/> Akunnig      | <input type="checkbox"/> West Kitikmeot             |

Is a land use plan conformity determination required?

Yes  No

If Yes, indicate date issued and attach copy January 7, 2016  
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 Under Application  
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.**

**Executive Summary in English  
Executive Summary in Inuktitut  
Detailed Project Description and Work Plan.  
Abandonment and Reclamation Plan.  
Environment and Wildlife Management Plan.  
Spill Prevention and Response Plan  
Non Technical Project Summary in English  
Non Technical Project Summary in Inuktitut  
Water License Application in English  
Water License Application in Inuktitut  
1:250,000 Location Map, Kahuna Claim Group**

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

**All exact drill hole locations have yet to be determined as additional reconnaissance work needs to be performed to properly delineate the targets. Diamond drilling will only be conducted in areas that have sufficient historical data and/or preliminary exploration work to reduce the risk of unnecessary disturbances. Once the specific targets have been identified there are no other options available to test the subsurface.**

**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  Recreational  
 Municipal (includes camps/lodges)  Miscellaneous (describe below):  
 Power

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.

<input type="checkbox"/> Hydrostatic Testing <input type="checkbox"/> Tannery <input type="checkbox"/> Tourist / Remote Camp <input type="checkbox"/> Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil <input type="checkbox"/> Onshore Oil and Gas Exploration Drilling <input checked="" type="checkbox"/> <b>Mineral Exploration</b> / Remote Camp <input checked="" type="checkbox"/> <b>Advanced Exploration</b> <input type="checkbox"/> Mine Development <input type="checkbox"/> Municipal <input type="checkbox"/> General Water Works <input type="checkbox"/> Power
<p><b>12. WATER USE</b> - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.</p> <p><input type="checkbox"/> To obtain water for camp/ municipal purposes <input type="checkbox"/> To obtain water for industrial purposes <input type="checkbox"/> To cross a watercourse <input type="checkbox"/> To alter the flow of, or store water <input type="checkbox"/> To divert a watercourse <input type="checkbox"/> To modify the bed or bank of a watercourse <input type="checkbox"/> Flood control</p> <p><input checked="" type="checkbox"/> Other: <u><b>Diamond Drilling</b></u></p>
<p><b>13. QUANTITY AND QUALITY OF WATER INVOLVED</b> - 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.</p> <p>Name of water source(s) (show location(s) on map): <b>Numerous unnamed water sources within the boundary of the Kahuna Claim Group could be utilized as a water source. If smaller lakes are used, the level of the water in the reservoir will NOT be drawn down.</b></p> <p>Describe the quality of the water source(s) and the available capacity: <b>Water quality will be pristine. Care will be taken to ensure that water is drawn from bodies with sufficient capacity in order to avoid impact on lake level or flow.</b></p> <p>Provide the overall estimated quantity of water to be used: <b>For drilling activities, water usage is 50m<sup>3</sup>/day. No camp is being permitted so there is no water usage for camp purposes.</b></p> <p>Provide the estimated quantity(s) of water to be used from each source: <b>This will depend on the number of drill holes collared at each location. On average a drill hole will take 3 days to complete so the estimated quantity of water used from each source is 150m<sup>3</sup>. No water source will be drawn down.</b></p> <p>Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.) <b>Diamond Drilling: 50m<sup>3</sup>/day.</b></p>

Describe the method of extraction(s):

**The drill pumps use a 1 inch inside diameter suction hose on a diesel pump with a fine screen on the foot valve. For drilling, a fiber glass window screen with a nominal opening size of less than 1/16 inch opening is generally wrapped around the foot valve to prevent the intake of silt and sand into the pump which can cause considerable damage. In addition it is common practice to place the foot valve of the intake hose in a perforated 20 litre pail which further protects against harmful materials and fish being entrained into the water intake hose.** \_\_\_\_\_

Estimated quantity(s) of water returned to source(s)   NIL   m<sup>3</sup>/day

Describe the quality of water(s) returned to source(s):   

**Drill water will not be directly returned to its source, but directed into a sump for slow infiltration into the soil and will be located at least 31 meters away from the high water mark of any nearby water source.** \_\_\_\_\_

**14. WASTE** – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

- |  |   |
|--|---|
| <input type="checkbox"/> Sewage                                    | <input checked="" type="checkbox"/> <b>Waste oil</b>                |
| <input type="checkbox"/> Solid Waste                               | <input type="checkbox"/> Greywater                                  |
| <input type="checkbox"/> Hazardous                                 | <input checked="" type="checkbox"/> <b>Sludges (Drill cuttings)</b> |
| <input checked="" type="checkbox"/> <b>Bulky Items/Scrap Metal</b> | <input type="checkbox"/> Contaminated soil and/or water             |
| <input type="checkbox"/> Animal Waste                              |   |
| <input type="checkbox"/> Other (describe): _____                   |   |

**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.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
<b>Waste Oil</b>	<b>Used oil from drill equipment</b>	<b>Minimal</b>	<b>Stored in sealed containers</b>	<b>Removed and taken to an approved recycling or disposal site.</b>
<b>Sludges</b>	<b>Drill cuttings</b>	<b>Minimal</b>	<b>Drill sludge will be collected in a sump located beside the drill where drill cuttings will be collected/deposited. Sump located at least 31m away from the high water mark of any nearby</b>	<b>Drill cutting sediment will be buried in the sump</b>

			<b>water body.</b>	
<b>Bulky items/scrap metal</b>	<b>Empty barrels/fuel drums</b>		<b>Stored and subsequently removed</b>	<b>Removed and taken to approved disposal site.</b>

**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. For each provide the following:

Authorization: **KIA Right Of Way Licence**

Administering Agency: **Kivalliq Inuit Association**

Project Activity: **Overland Winter Trail**

Date (expected date) of issuance: **Pending** Date of expiry: \_\_\_\_\_



**17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** - Describe direct, indirect, and cumulative impacts related to water and waste.

All potential environmental effects associated with the Kahuna Diamond project are considered minor, localized effects that can be mitigated. No residual impacts to the environment are expected to occur as a result of the implementation of this program. Proper training of all staff and contractors will be enforced to ensure the well being of the environment, wildlife and personnel. A Detailed Project Description and Work Plan outlines the procedures for completing the various work type activities being proposed including diamond drilling and bulk sampling. Included with the submission is a Spill Prevention and Response Plan, Environment and Wildlife Management Plan and Abandonment and Restoration Plan have been prepared and submitted and will be reviewed and followed by onsite personnel. Response procedures will be initiated and practiced.

**Table 1: Potential Impacts and Proposed Mitigation Measures**

Resource/Topic	Potential Impact	Mitigation
Terrain / Permafrost	Overburden drilling will cause minor disturbance to immediate drill areas.	Drill rigs are heli-portable and will not traverse the ground surface.
	Contamination of terrain/permafrost and surface and ground water due to fuel spills	Site will be left in a stable state
	Accidental Fuel Spills	Proper storage of fuel containers and use of drip pans.
Hydrology	Water removal required from local water bodies for drilling.	Water use will be monitored to ensure water drawdown will be negligible. Flow meters to be installed at the drill and will be monitored and recorded daily.
Surface Water Quality	No discharge to receiving water environment, negligible sedimentation	No Mitigation required
Fish and Fish Habitat	Entrainment of fish and other aquatic life from water withdrawn for drilling	Use of screens over intake pipe to prevent entrainment of fish as per DFO Freshwater Intake End-of-Pipe Fish Screen Guidelines
Vegetation	Minor compaction of vegetation caused by drill timbers	Drill rigs are heli-portable and will not traverse the ground surface.
Wildlife and Wildlife Habitat	Wildlife: Short term aircraft and drilling noise, human interaction.  Habitat: Minor disturbance to vegetation in drilling areas by compaction	Personnel training on wildlife-human interactions/encounters. Pre-drilling reconnaissance site visit prior to drilling activities will assist in identifying sensitive wildlife habitat. Site will be left in a stable state, promoting re-vegetation. Any critical or sensitive wildlife species encountered during the drilling season will be avoided by a 10m buffer zone. Work programs will be timed to avoid significant wildlife periods such as caribou calving. All work in area will cease should caribou move into the area during active work programs. Wildlife Sighting Forms will be completed on an as viewed basis.
Wildlife and Wildlife Habitat	Disturbance of Wildlife from low-level aircraft activities	Low level aircraft will be restricted to flights to and from the drill for crew changes and delivery of supplies.
Socio-economics	Positive impacts. Personnel actively employed from local communities. Local Inuit business engagement.	N/A

**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.

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

**No existing water licence holders are known. No significant adverse effects of water use are anticipated. Work will be conducted in a socially and environmentally responsible manner to ensure that no impact to local water bodies occurs and that water quality is not compromised.**

**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).

**Water utilized in this project includes both Inuit Owned Lands and Crown lands. There will be no effect on the water quality. As required, a standard performance bond will be registered with the Kivalliq Inuit Association.**

**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.

**As the Kahuna Diamond project is still very early stage, only preliminary discussions/consultations have taken place thus far. A plain language summary of the proposed work has been produced, translated into Inuktitut and submitted for distribution. Dunnedin Ventures would welcome the opportunity to provide a more detailed presentation discussing their proposed project if requested to do so. Annual reports will be sent to the various government agencies as the program continues. These documents are available to the public.**

**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.

**Since Dunnedin is not utilizing a remote camp site due to its close proximity to Rankin Inlet, the restoration costs are estimated to be \$20,000. Please see the attached Appendix C: Abandonment and Reclamation Plan.**

**22. FINANCIAL INFORMATION**

Provide a statement of financial responsibility.

**Dunnedin's Interim Consolidated Financial Statement is attached.**

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

**Current Officers of Dunnedin Ventures Inc:**

**Christopher Taylor CEO, Director**

**Tony Ricci CFO, Director**

**Patrick McAndless Director**

**Dr Gilles Arseneau Director**

**Gary Schellenberg Director**

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

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

**No studies have been performed on the Kahuna Diamond project.**

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

Construction **No Construction phase is required, no camp established on site.**

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

Operation

Proposed Start Date: **March 2016** Proposed Completion Date: **September 2018**  
(month/year) (month/year)

Closure **To Be Determined**

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

Post - Closure

Proposed Start Date: **Unknown** Proposed Completion Date: **Unknown**  
(month/year) (month/year)

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

Construction

Winter  Spring  Summer  Fall  All season

Operation

Winter  Spring  Summer  Fall  All season

Closure

Winter  Spring  Summer  Fall  All season

Post - Closure **To Be Determined**

Winter     Spring     Summer     Fall     All season

**25. PROPOSED TERM OF LICENCE**

Number of years (maximum of 25 years):       5       years

Requested Date of Issuance: **March 2016** Requested Expiry Date:   December 2021    
 (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.  
**NWB's online Standardized Form for Annual Reporting will be utilized.**

**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.

**X Yes**                       No                      If no, date expected \_\_\_\_\_

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

Yes                      **X No**                      If no, date expected   Pending  

Completed General Water Licence Application form.

**X 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.

**X 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 \_\_\_\_\_

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.

**Yes**                       No                      If no, date expected \_\_\_\_\_

**28. SIGNATURE**

<u>Rick Kemp</u>	<u>Project Manager</u>	<u>"Rick Kemp"</u>	<u>01/22/16</u>
<b>Name (Print)</b>	<b>Title (Print)</b>	<b>Signature</b>	<b>Date</b>