

Indian and Northern Affairs Canada

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Nunavut Regional Office P.O. Box 100, Bldg. 918 Igaluit, NU, X0A 0H0

Your file - Votre référence NWB2CHW Our file - Notre référence 9545-2-2-CHW-G

March 3, 2004

Phyllis Beaulieu Licensing Administrator Nunavut Water Board

Dear Ms. Beaulieu

Re: Shear Minerals Ltd. - Churchill West Diamond Project

Thank you for providing INAC with an opportunity to comment on this document.

As I indicated earlier, it appears that this project was submitted for review on three separate occasions and over three separate applications: NIRB # 04EN002; NIRB # 04EN008 & NWB2CHU0305; all of which I previously submitted comments on.

Just to be sure, I compared the background documentation provided with this most recent application with that of the aforementioned NIRB and NWB applications. For all intents and purposes, the background documentation is identical. The likely explanation for this is that the proponent has submitted generic background documents for all of their proposed activities.

My initial inclination is to simply reference my previous submissions in lieu formally responding to this application, however, I am concerned that my comments will become lost in the shuffle. In the interest of maintaining continuity and clarity, I have collated them into this one submission.

Drilling:

- Drilling additives or muds shall not be used in connection with holes drilled through lake ice
 unless they are re-circulated or contained such that they do not enter the water, or are
 demonstrated to be non-toxic.
- The proponent has indicated that they are in the process of developing a method by which they can manage accidental spills of drilling fluids while drilling on ice. <u>Approval of this</u> amendment should be contingent upon receipt and review of said plan.



Field Camp:

The application indicates that the proponent intends to operate out of Rankin Inlet, but may consider establishing a 40-man seasonal camp which would operate for nine months; from March 1 to November 30. INAC considers this to be a relatively significant development over and above that which is proposed by this application and therefore should be subject to review and approval by interested parties. INAC therefore suggests that if the proponent decides to go ahead with the construction of a base camp – the details of which have not been provided with this application and the impacts of which cannot therefore be assessed at this time – they should submit a separate application or supplemental to this application which provides pertinent details about the activity such as, but not restricted to, waste management, spill contingency planning and abandonment and restoration.

Other:

- My comments with regard to the proponent's spill response plan are appended to this letter.
- I have also attached a copy of a set of standard recommendations for land use activities in Nunavut. Some of the recommendations may be redundant, however it should be understood that they are intended to be used as a guide. The proponent should make every effort to observe these recommendations where applicable.

If you have any questions or require clarification on any of the comments listed in this submission, do not hesitate to contact me.

Robert Eno

Regional Water Resources Coordinator - Kitikmeot & Kivalliq Regions

(867) 975-4548

e-mail: enor@inac.gc.ca

Robert Eno

Indian and Northern Affairs Canada Spill Contingency Plan Review

Churchill West Diamond Property, Nunavut. 4579 Nunavut Ltd.

Comments:

Overall, the proponent appears to have put a good effort into developing their spill plan, however, the reviewer has the following comments and suggestions to offer:

- 1. The plan does not indicate the name and in particular, the 24 hour contact number of the individual preferably someone in the immediate area such as a site supervisor in charge and/or someone who has the authority to activate and execute a comprehensive spill plan. This information needs to be provided for the benefit of environmental inspectors who may be required to oversee a cleanup operation.
- 2. The proponent has not provided a detailed inventory of the contaminants (fuel, chemicals) in their control and that are associated with this project.
- 3. It should be noted that DIAND does not have a spill line. The NWT spill line is a joint cooperative operation underwritten by all of the regulatory agencies in the NWT/Nunavut.
- 4. The proponent should update their list of government contacts for the Territorial and Federal government agencies that are listed in their plan; all of whom have offices in Nunavut.
 - The Government of the Northwest Territories Environmental Protection Service no longer has regulatory authority in Nunavut. The Department of Sustainable Development (DSD), Government of Nunavut assumed this role as of April 1st 1999. DSD is headquartered in Iqaluit.
 - Environment Canada, Fisheries and Oceans (DFO) and DIAND have regional offices in Iqaluit, Nunavut from which they administer most, if not all Nunavutrelated activities.
- 5. Further to # 2, above, it should be understood that regulatory agencies such as INAC, Environment Canada, DFO and the Department of Sustainable Development do not provide spill response services, however, they can review the final spill plan to assess its adequacy and provide advice at that time. Regulatory agencies do not generally provide prescriptive advice with respect to spill cleanup operations, however, they can, and have in the past, provided information and advice in emergency situations. Nevertheless these agencies should not be included in a spill plan as routine advisors. It is the proponent's responsibility to develop a complete spill response plan which addresses the steps to be taken from the start of the spill, up to and including the final clean up and disposal of recovered and contaminated materials. The role of regulatory agencies is to approve or disprove the proponent's intended plan of action and to ensure that the proponent fulfils their legal obligations with respect to environmental protection.

- 6. If possible, the proponent should provide the geographic coordinates in both UTM and Latitude/Longitude format of the proposed drill sites and temporary campsites.
- 7. The proponent has indicated that the drilling operations will be conducted using Rankin Inlet as the base station, however, if the proponent intends to set up a seasonal base camp outside of Rankin Inlet, then the proponent should provide a detailed site map of the area, identifying the location of structures, contaminants storage areas, likely pathways of contaminant flow (in the event of a spill) potentially sensitive areas, such as water bodies, and general topography. The site map should be included with the spill plan.
- 8. The proponent has indicated that their personnel have received spill response training, however, the scope and nature of that training should be included with the spill plan. It is strongly recommended that personnel be provided with basic spill response training; preferably the type of training which includes practical, hands-on exercises.
- 9. The proponent should provide a complete inventory of spill clean up equipment that will be available for use at each site. This has not been provided in the spill plan.
- 10. While the reviewer appreciates the details provided in the plan, it is suggested that the proponent obtain a copy of the *Guide to the Spill Contingency Planning and Reporting Regulations*. This guide was originally developed by Environmental Protection Service of the Government of the Northwest Territories to complement their *Spill Contingency Planning and Reporting Regulations*; both of which have also been adopted by the Government of Nunavut. The proponent is also directed to a document developed by Environment Canada's Yellowknife office in 1990 entitled: "Guidelines for the Preparation of Hazardous Material Spill Contingency Plans". The proponent may find these guidelines to be helpful in fine tuning their spill plan.
- 11. The reviewer is willing to address any questions that the proponent may have regarding spill contingency plans.

Review Date: March 3, 2004 Reviewer: Robert Eno

Robert Eno

Indian and Northern Affairs Canada Standard Recommendations:

Legislative Authority

Indian and Northern Affairs Canada (INAC), Water Resources Division, derives its regulatory mandate from the *DIAND Act*, and the *Nunavut Waters and Nunavut Surface Rights Tribunals Act*. The latter Act essentially forbids the deposition of a waste into Nunavut waters, except under certain regulated terms and conditions dictated (as in a Water Licence) by the Nunavut Water Board. A waste is defined as any substance which, when deposited into the water, will alter its quality to the detriment of fish, animals, humans or plants.

In reviewing land use and other permit applications, INAC Water Resources Division observes, in addition to our own legislation, other pertinent Federal Acts and Regulations such as the *Fisheries Act*, the attendant *Metal Mining Effluent Regulations* and the *Canadian Environmental Protection Act* ("CEPA").

In addition to Federal Acts and Regulations, the Territorial governments in Nunavut and the NWT have adopted a number of very useful regulations and guidelines under their respective Environmental Protection Act (s). INAC believes that these Acts, Regulations and in particular, guidelines, are quite helpful in assisting proponents to tailor their projects in such a manner that ensures that they will be in compliance with the overall spirit and intent of the various pieces of environmental legislation that govern development activities in Nunavut. These regulations and guidelines include but are not restricted to: *Spill Planning and Reporting Regulations*; *Environmental Guideline for the General Management of Hazardous Waste*; *Environmental Guideline for Industrial Projects on Commissioner's Lands*; *Environmental Guideline for Industrial Waste Discharges* and the *Environmental Guideline for Site Remediation*. INAC advises the proponent to contact the Government of Nunavut, Department of Sustainable Development for further details.

Spill Contingency Plan

The applicant should have a contingency plan for responding to chemical, petroleum and other spills which might occur during the proposed activity. The Spill Contingency Plan should be a stand-alone document and should contain as a minimum, the following information:

- 1. The name, address and contact number for the person in charge, management or control of the contaminant (in this case, fuel oil and any other chemicals associated with the program).
- 2. The name and address and telephone number of the employer.
- 3. The name, job title and 24 hour contact number for the person or persons responsible for activating the spill plan.
- A detailed description of the facility, including its geographic location in UTM coordinates (map sheet number, Eastings and Northings) and geographic coordinates (Lat/Long) size and storage capacity.

- 5. A description of the type and amount of contaminants stored on site.
- 6. Steps taken to report, contain, clean up and dispose of a spill.
- 7. A site map of sufficiently large scale to show the location of buildings, contaminants storage areas, sensitive areas such as water bodies, probable pathways of contaminant flow and general topography.
- 8. A description of the spill response training provided to employees who will respond to a spill.
- 9. An inventory and location of the response and clean up equipment available to the spill clean up team.
- 10. The means by which the spill plan is activated.
- 11. The date that the spill plan was prepared.

The Government of the Northwest Territories' Environmental Protection Service developed a very useful set of <u>Spill Planning and Reporting Guidelines</u> to complement their <u>Spill Contingency Planning and Reporting Regulations</u>; both of which were adopted by the Government of Nunavut in April,1999. Environment Canada also developed their own <u>Guidelines for the Preparation of Hazardous Material Spill Contingency Plans</u>. The proponent is advised to obtain copies of these documents as they contain a great deal of useful information that will assist them in developing/updating their spill contingency plan. If the proponent is unable to obtain copies of these documents, INAC will be pleased to provide electronic copies upon request.

Fuel Storage

To prevent spreading in the event of a spill, fuel stored in drums should be located, whenever practical, in a natural depression a minimum distance of 30 meters from all streams, preferably in an area of low permeability. All fuel storage containers should be situated in a manner that allows easy access and inspection as well as removal of containers in the event of leaks or spills. Large fuel caches in excess of 20 drums, should be inspected daily. Additionally, the proponent is strongly advised to keep a written log of the inspections. For long term storage (> 6 months), it is strongly recommended that drummed fuel be stored on pallets to prevent the bottoms from rusting out.

Chemical Storage

All chemicals should be stored in a safe and chemically-compatible manner a minimum of 30 meters from all bodies of water. The applicant should be required to remove unused chemicals for reuse or disposal to an approved site using methods approved by the Land Use Inspector. Material safety data sheets (MSDS) should be provided for each chemical and should be posted in a central location; accessible by all camp personnel. Camp personnel should be conversant in the handling of these chemicals as well as be able to deal with any accidents or spills involving that chemical.

Location of Hazardous Materials

Hazardous materials stored on-site should be marked so they will be visible under all conditions, in all seasons. This recommendation is intended to prevent possible injuries to camp personnel and/or damage to the containers. Unless otherwise specified by the land use inspector or licence -issuing agency, all hazardous materials should be removed from the site upon completion of the activity.

Waste Oil/Waste Fuel Disposal

Waste oil and waste fuel should be removed and returned for recycling or destruction when the land use activity is completed. Alternative methods of disposal that provide an equivalent level of environmental protection will be considered on a case-by-case basis.

Used Drums

Used fuel and oil drums should be removed from the site, returned for deposit, or reused.

Contaminated Soil

Soil contaminated by fuel (e.g., soils from under a old storage tanks) can be treated on site, such as by landfarming, incineration or thermal desorbtion; or it should removed to an approved disposal facility and replaced with new soil.

Winter Roads

- Existing winter road routes and trails should be used whenever possible, to avoid unnecessary land clearing and disruption of site hydrology.
- Speed on winter roads should not exceed: 30 km/hr for fully loaded vehicles; 50 km/hour for empty vehicles.
- Trucks should carry at least 10 square meters of polyethylene material (for lining a trench or depression), a spark-proof shovel & oil absorbent blankets or squares.
- Trucks should carry reliable radio and/or satellite phone communications.
- Trucks should carry sufficient response equipment for the safe removal of fuel from an overturned tanker (such as hatch cone covers, hoses etc).
- In general, the proponent should be fully prepared to deal with spills resulting from vehicle accidents along the road in a timely and efficient manner.

Drill Sumps

- The sumps should only be used for inert drilling fluids, not any other materials or substances. All sumps should be constructed of materials that normally exhibit low permeability and in a manner that prevents intrusion of runoff water.
- All drilling waste should be contained in the drill waste sump at a minimum of one (1)
 metre below the active layer of permafrost. In the event the initial sumps do not consist
 of low permeability materials, the proponent should construct an offsite sump which
 fulfills the aforementioned requirements.
- Drilling fluids from the sumps should not be permitted to enter into any waters or onto any land surface where the drilling fluids may enter any waters.
- If during the drilling, an artesian aquifer is encountered producing water flowing at the surface, the proponent should immediately notify the licencing/permitting agency. Samples of the water may be required for analysis.
- Drilling additives or muds shall not be used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water, or are demonstrated to be non-toxic.

Garbage Disposal

Garbage should be removed from the camp periodically; alternatively, all combustible wastes can be incinerated on site and non-combustibles collected and removed upon termination of the activity. INAC is willing to review any proposal which provides acceptable levels of environmental protection and meets current best practices.

Incineration

For camps of less than 10 people, it is recommended that a burn barrel be employed to dispose of the combustible wastes. A burn barrel is essentially a 45-gallon drum or equivalent, with a hole cut into the bottom to facilitate air intake, and is closed at the top with a lid and a chimney for the exhaust. INAC does not consider burning wastes in a burn barrel to be true incineration, however, for small camps, this is an acceptable means to deal with combustible wastes. The burn barrel should be operated so that a high temperature burn is maintained at all times. This will promote complete combustion and eliminate pollutant and odour concerns.

For camps of more than 20 people, it is recommended that a properly-designed, commercially-available incinerator be used to manage wastes. Once again maintaining a high temperature burn to reduce wastes and prevent the creation of toxic by-products, is imperative.

Kitchen wastes, cardboard, paper products, packaging and untreated wood wastes are suitable for incineration in a burn barrel and an incinerator. Industrial wastes and non combustible wastes should be removed from the camp and disposed of at a designated landfill or other approved facility. Under no circumstance should hazardous wastes be managed through open

burning or incineration.

For camps of greater than 50 people, it is recommended that a municipal waste incinerator, which produces emissions that meet CCME air quality guidelines, be used to dispose of camp wastes. The manufacturer will specify operating conditions and types of wastes that can be disposed of in the incinerator in order to meet the specified CCME standards. It is recommended that municipal waste incinerators be operated to meet manufacturer specifications.

Greywater & Sewage

For small temporary camps, sewage and greywater can be deposited in a sump or pit which must be located at least 30 meters from the high water mark of any water body. Open pits should be regularly treated with lime to avoid attracting animals and for general pest/insect control. Upon cessation of the project, pits and sumps should be treated with lime and in-filled with native soil.

For larger camps, it may be necessary to construct more elaborate sewage and greywater management systems. INAC will address these on a case by case basis. It is strongly recommended that the proponent consult the Department of Health for further recommendations.

The aforementioned recommendations are a brief outline of what INAC suggests that a proponent should be implementing to mitigate any damage or alterations to the environment during the course of their proposed activities. In terms of legal compliance, the proponent is referred to the various Federal and Territorial Acts mentioned earlier in this document and which directly or indirectly govern land and water use activities in Nunavut.

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of the project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title:		Churchill Diamond Property, Nunavut. Mineral Exploration						
Proponent:		4579 Nunavut Ltd.						
Location:		Rankin Inlet Area						
Comments Due By:		February 13, 2004		NIRB#		04EN002		
							INAC File	# <mark>9545-2-2-CHU-G</mark>
Indicate your concerns about the project proposal below:								
G no concerns G water quality G terrain G air quality G wildlife and their habitat G marine life and their habitat G marine mammals and their habitat G fish and their habitat G heritage resources in area			G G G G <mark>G</mark>	traditional uses of land Inuit harvesting activities community involvement and consultation local development in the area tourism in the area human health issues other				
Please describe concerns indicated above:								
 Drilling additives or muds shall not be used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water, or are demonstrated to be non-toxic. The proponent has indicated that they are in the process of developing a method by which they can manage accidental spills of drilling fluids while drilling on ice. <u>Approval of this amendment should be contingent upon receipt and review of said plan</u>. 								
Do you have any suggestions or recommendation for this application? Refer to attached INAC standard recommendations for exploration camps.								
Do you support the project proposal? Yes \check{Z} No \check{Z} Any additional comments?								
Yes.								
Additional comments re: the proponent's spill plan are attached.								
							Igaluit	
Position				Organization		С	Indian and Northern Affairs Canada - Water Resources Branch	
Signature		Rolli	& Eno		Date		February 3,	2004

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Spill Contingency Plan

The applicant should have a contingency plan for responding to chemical, petroleum and other spills which might occur during the proposed activity. The plan should include a list of available spill response equipment and the names of trained personnel who will be on-site and available in the case of a spill.

Fuel Storage

To prevent spreading in the event of a spill, fuel stored in drums should be located, whenever practical, in a natural depression a minimum distance of 30 metres from all streams, preferably in an area of low permeability. All fuel storage containers should be situated in a manner that allows easy access and removal of containers in the event of leaks or spills. Large fuel caches in excess of 20 drums, should be inspected daily. Drums should preferably and if practical, be stored on pallets to prevent the bottoms from rusting out.

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All chemicals should be stored in a safe and chemically-compatible manner a minimum of 90 feet from all bodies of water. The applicant should be required to remove unused chemicals for reuse or disposal to an approved site using methods approved by the Land Use Inspector. Material safety data sheets (MSDS) should be provided for each chemical and be posted in a central location; accessible by all camp personnel. Camp personnel should be conversant in the handling of these chemicals as well as able to deal with any accidents or spills.

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Indian and Northern Affairs Canada Spill Contingency Plan Review

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Review Date: February 3, 2004 Reviewer: Robert Eno

Robert Eno