



## SCREENING PART 2 FORM PROJECT SPECIFIC INFORMATION REQUIREMENTS (PSIR)

Prepared For:  
**WPC RESOURCES INCORPORATED**

**Hood River Project, Nunavut**

Prepared: June 03, 2014.

Revised: July 30, 2014.

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### 1. SUBMISSIONS

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The Proponent must submit all information pertaining to the Project as a whole. The information requirements below are designed for the purpose of environmental assessment and are not limited to the scope of a single permit or license application. **COMPLIED.**

**IMPORTANT:** Please be advised of the following:

1. NIRB does not accept references to an ftp or web sites as a submission.
2. The Proponent must provide NIRB with 1 (one) electronic copy and 1 (one) hardcopy of the required information in English. **COMPLIED.**
3. All maps should be shapefiles, be legible, and should include grids, be of appropriate scale, indicate the scale, include latitude and longitude references, NTS Maps numbers, title, legend and a north arrow. To the extent possible, avoid hand-drawn demarcations and faxed maps. **COMPLIED: Digital files compiled on submitted CD.**
4. Please complete all required information in each section below. If the required information is not applicable to the project proposal, please indicate this in the response with "n/a". If the request has been provided in a different section or report, please note the section or report where the response can be found. **COMPLIED.**

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### 2. GENERAL PROJECT INFORMATION REQUIREMENTS

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#### Project Coordinates and Maps

**Digital files of all Figures in MapInfo format are attached. (UTM NAD83 Zone 12)**

1. The preferred method for submitting project coordinates information is through the use of a Geographic Information System (GIS) compatible digital file. Although an ESRI ArcView 3.x shape file (in decimal degrees) is the preferred interchange format, the

NIRB has the capacity to receive over 100 GIS and CAD related formats, including MapInfo and AutoCAD, provided proper format and projection metadata is also submitted. The NIRB requires coordinates for the project proposal which reflect the entire project area as defined by:

- Area/sites of investigation;

**Shown on attached Figures 1, 4 and 5 (Section 8).**

- Boundaries of the foreseen land use permit/right-of-way area(s) to be applied for;

**Shown on attached Figure 2 (Section 8).**

- Location of any proposed infrastructure or activity(s); and,

**Shown of attached Figures 3 and 4 (Section 8).**

- Boundaries of the mineral claim block(s) where proposed activities will be undertaken.

**Shown on attached Figure 3 (Section 8).**

- Map of the project site within a regional context indicating the distance to the closest communities.

**Shown on attached Figures 1 and 2 (Section 8).**

2. Map of any camp site including locations of camp facilities.

**The Ulu Camp is located at 66° 54' 02"N Latitude, 110° 58' 30"W Longitude (UTM NAD83 Zone 12 on NTS Map Sheet 076L/15).**

**Ulu Camp is shown on attached Figure 2 (Section 8). No camp facilities will be constructed within the boundaries of HOODRIVER-001 MEA Property. One security, emergency shelter tent may be erected somewhere along the north shore of the Penthouse Lake for protection of field personnel from adverse, inclement weather. Potential tent sites shown on Figure 7 (Section 8).**

3. Map of the project site indicating existing and/or proposed infrastructure, proximity to water bodies and proximity to wildlife and wildlife habitat.

**Shown on attached Figure 5 (Section 8). The property generally covers the higher elevation north of the Hood River. Terrain is generally more rugged than the river valleys. It is in the valleys where caribou, muskoxen and grizzly bears may be observed. Wildlife will not be disturbed (see the accompanying WPC Wildlife Mitigation and Monitoring Plan). No eskers occur within the property boundaries.**

## **Project General Information**

4. Discuss the need and purpose of the proposed project.

**The main objectives of the proposed field program for 2014 to 2018 are:**

- i) To gather additional information about the known mineral deposits and their setting to determine if these deposits can be safely and economically extracted while protecting the environment.**
- ii) To further explore the area for potential for additional resources.**
- iii) To learn more about the environment, the land and its people so that the project can be designed to protect the environment and people and to bring meaningful benefit to the people.**

**In order for WPC Resources to achieve these goals, a program of prospecting, geologic mapping, geophysical exploration, diamond drilling, and the initiating of environmental baseline work will be required.**

The purpose of the project is to evaluate the HOODRIVER-001 MEA Property's potential to host an economic gold, base metal or diamond deposit(s). The program is envisaged to be undertaken over a period of 5 years. The first year will be an evaluation of known showings followed in the second year by grid establishment, geophysical surveys, prospecting, mapping. The drill program is anticipated to begin late in the second year and continue into the following years. WPC has made arrangements with Elgin Mining Inc. whereby WPC crew will be accommodated at the adjacent, and fully permitted Ulu Minesite Camp operated by Elgin Mining. The program is anticipated to begin upon receipt of all required permits.

5. Discuss alternatives to the project and alternative methods of carrying out the project, including the no-go alternative. Provide justification for the chosen option(s).

The proposed exploration program will have very little effect on the environment in the Hood River Area. As the program progresses forward, drilling will be required to ultimately evaluate the ore-bearing potential of the property. Drilling can be disruptive; however, with care, it also can have very little impact on the environment. All efforts will be undertaken to ensure that the program will have minimal impact on the environment. As per the attached Wildlife Mitigation and Monitoring Plan, all personnel will avoid disturbing wildlife. All disruptive activities will be terminated when wildlife is in the area. Known archaeological site will be avoided and any new sites identified will be left undisturbed and the location reported to the Territorial Archaeologist, GN and the KIA.

Impact on the environment is being reduced through both the utilization of the adjacent Ulu Camp instead of establishing a second campsite and during the drilling program, all drill moves will be undertaken by the use of helicopters.

6. Provide a schedule for all project activities.

**2014:** Ulu camp opens Early July. Potentially, the requested Hood River permits arrive mid July, 2014. Crews move into the Ulu Camp late July (pending receipt of permits). Camp fully operational by August 01, 2014. NI43-101 site visit takes place on HOODRIVER-001. Short program of prospecting, mapping and sampling of showings begins. Ulu Camp shut down and crews depart early September.

**2015:** Ulu Camp opens early spring and grid is established before Spring melt. Geophysical surveys (Magnetic and EM) carried out over grid. Field crews arrive mid June. A program of prospecting, sampling of showings continues. Detailed mapping on grid begins. Archaeological survey undertaken in mid July-August depending upon schedule of archaeologist. Report submitted to CLEY and drilling permit subsequently received. Drilling begins – depending upon when permit is received.

**2016:** Crews arrive late June and drilling, prospecting, mapping and sampling of showings continue. Detailed geophysical surveys over specific targets is initiated. Seasonal camp closure occurs late September.

**2017-2019:** The exploration program is expected to continue on an annual, seasonal basis for these years. Obviously, forward progress through this period will be dependent upon the company receiving ongoing positive exploration results.

7. List the acts, regulations and guidelines that apply to project activities.
- **Canada Water Act. Canadian Drinking Water Quality Guidelines.**
  - **Canadian EPA Act.**
  - **Fisheries Act.**
  - **Article 13 - Nunavut Land Claims Agreement. NCLA Act.**
  - **Nunavut Water Board (NWB) – Nunavut Water and Nunavut Surface Rights Tribunal Act (for Water Licence) - Interim Procedures and Information Guide for Applicants, Interim Rules of Practice and Procedure for Public Hearings.**
  - **Fisheries Act – Section 35.**
  - **RWED - Environment Protection - Spill Contingency Regulations.**
  - **Department of Justice (GN) - Labour Standards Act and Fairness Practices Act.**
  - **Department of Health and Social Services (GN) - Public Health Act - Camp Sanitation Regulations, Water Supply Regulations.**
  - **Department of Environment (GN) – Spill Contingency Planning and Reporting Regulations.**
  - **Indian and Northern Affairs Canada - Territorial Land Use Act - Territorial Land Use Regulations (for Land Use Permit), Canada Mining Regulations.**
  - **Environment Canada – Canadian Environmental Protection Act.**
  - **Transport Canada and Department of Community and Government Services (GN) - Transportation of Dangerous Goods Act - Transportation of Dangerous Goods Regulations.**
8. List the approvals, permits and licenses required to conduct the project.
- NIRB Project Screening.**  
**NWB Type B Water Use Licence.**  
**KIA Land Use/Access Licence.**

### **DFO Operational Statement (OS) Conformity**

9. Indicate whether any of the following Department of Fisheries and Oceans (DFO) Operational Statement (OS) activities apply to the project proposal:
- Bridge Maintenance  
**Does Not Apply.**
  - Clear Span Bridge  
**Does Not Apply.**
  - Culvert Maintenance  
**Does Not Apply.**
  - Ice Bridge  
**Does Not Apply.**
  - Routine Maintenance Dredging  
**Does Not Apply.**
  - Installation of Moorings  
**Does Not Apply.**
- Please see DFO's OS for specific definitions of these activities available from DFO's web-site at <http://www.dfo-mpo.gc.ca/regions/central/habitat/os-eo/index-eng.htm>

10. If any of the DFO's OS apply to the project proposal, does the Proponent agree to meet the conditions and incorporate the measures to protect fish and fish habitat as outlined in the applicable OS? If yes, provide a signed statement of confirmation.  
**None of the Operational Statements listed above apply to the proposed project.**

## Transportation

11. Describe how the project site will be accessed and how supplies will be brought to site. Provide a map showing access route(s).  
**The project will be serviced using the existing runway located immediately south of the Ulu Minesite Camp. Fixed-wing (Single/Twin Otter) supply flights, equipped with "tundra tires", will originate out of Yellowknife. Transportation throughout the property of all personnel, equipment and supplies will be by the chartered helicopter, based on-site**  
**The runway location is shown on Figures 3, 4 and 5 (Section 8). Access from Yellowknife is by air only with the approximate route shown on Figure 1 (Section 8).**
12. If a previous airstrip is being used, provide a description of the type of airstrip (ice-strip/all-weather), including its location. Describe dust management procedures (if applicable) and provide a map showing location of airstrip.  
**The project will be serviced using the existing runway located immediately south of the Ulu Minesite Camp. It is a gravel runway constructed for the Ulu Project. Dust management procedures will not be required as Twin/Single Otter supply flights will probably limited to one-two flights per week, potentially increasing slightly once the drill program is initiated.**  
**The runway location is shown on Figures 3, 4 and 5 (Section 8).**
13. If an airstrip is being constructed, provide the following information:  
**An airstrip will not be constructed. The project will be serviced using the existing runway located immediately south of the Ulu Minesite Camp.**
- Discuss design considerations for permafrost.  
**Does Not Apply.**
  - Discuss construction techniques.  
**Does Not Apply.**
  - Describe the construction materials, type and sources, and the acid rock drainage (ARD) and metal leaching (ML) characteristics (if rock material is required for airstrip bed).  
**Does Not Apply.**
  - Describe dust management procedures.  
**Does Not Apply.**
  - Provide a map showing location of proposed airstrip.  
**Does Not Apply.**
14. Describe expected flight altitudes, frequency of flights and anticipated flight routes.  
**Once in operation, camp supply flights are expected to average out to be one to two Single or Twin Otter flights per week, arriving from Yellowknife. Aircraft will be flying below 3,000 metres as they are not pressurized. All flights will be over 1000 metres AGL and as such will not pose any risk/disturbance to wildlife on the ground. The flight route will be a direct line between the supply centre of**

Yellowknife and the Ulu Airstrip located immediately west of the Hood River Property.

Helicopter crew set-out flights will be at times below 600 m (during take-off and landing); however, in ALL cases, low flights over wildlife will be prohibited.

## Camp Site

15. Describe all existing and proposed camp structures and infrastructure

There are no camp facilities on the HOODRIVER-001 Property, nor will any base site be erected during the duration of the proposed program. WPC has made an arrangement with Elgin Mining, whereby all crew will be based out of the adjacent, fully permitted, Ulu Minesite Camp (Figures 6 and 7 (Section 8)). Utilizing this adjacent, fully operational and permitted camp will reduce the environment impact of the HOODRIVER-001 Project.

16. Describe the type of camp:

No Base Camp construction is proposed for the HOODRIVER-001 MEA Property. The adjacent, operational and fully permitted Ulu Minesite Camp will be utilized as the Base Camp by WPC crews during the duration of the proposed five year program.

A single, short term, emergency shelter tent (with heat) may be erected on the shore of Penthouse Lake, solely for the protection of field crews as a haven from any fast moving, inclement weather.

- a. Mobile
- b. Temporary
- c. Seasonal (and Temporary).

As noted above, a single, short term, emergency shelter tent (with heat) may be erected on the shore of Penthouse Lake, solely for the protection of field crews as a haven from any fast moving, inclement weather. This structure will be removed and the end of EACH field season and the site will be completely remediated.

- d. Permanent
- e. Other

17. Describe the maximum number of personnel expected on site, including the timing for those personnel involved with the project.

During the first two years of the proposed program, the number of personnel onsite will be lower; expected to range between 10 to 15 people. Once drilling program is initiated, the maximum anticipated number of personnel onsite will be 15 to 20 (potentially rising over the short term to 25 due to visitors, geophysical surveys, archaeological surveys, etc.).

For proposed timing see Section 2, Item 6 above in this application.

## Equipment

18. Provide a list of equipment required for the project and discuss the uses for the equipment.

<u>EQUIPMENT</u>	<u>APPROXIMATE SIZE</u>	<u>PROPOSED USE</u>
Camp	0.5 ha.	<b>No Camp is Required</b> (Ulu Camp will be used)
At least one Diamond Drill and associated equipment.	3m by 4m by 3m	Diamond Drilling
Helicopter	One of: Jet Ranger, Hughes 500D or A-Star	Crew Transportation Drill moves Supply repositioning.
Fixed Wing Transportation	Single/Twin Otter(/C47)	Camp Supply
Generator	2m by 2m by 2m.	<b>Not required (Ulu Camp)</b> (Ulu Camp will be used)
Camp Water Pump	1m by 1m by 1m.	<b>Not Required (Ulu Camp)</b> (Ulu Camp will be used)

19. If possible, provide digital photos of equipment.

**SEE: Figure 6 (in Section 8) for a aerial photo of the proposed Camp that will be utilized by WPC crew members. Photographs of the above equipment are not available.**

## Water

20. Describe the location of water source(s), the water intake methods, and all methods employed to prevent fish entrapment. Provide a map showing the water intake locations.

**WPC crews will be accommodated at the existing Ulu Minesite Camp owned by Elgin Mining Incorporated. As per the existing Elgin permitting for this operation, domestic water will be drawn from West Lake as shown on Figure 7 in Section 8.**

**A mesh screen will be secured over all intake valve ends to prevent any fish entrapment, be it water for camp or drilling purposes.**

**As precise drill targets have yet to be determined, water for drilling could be drawn from any of the small/large lakes/ponds/creeks/rivers that exist on the property that may be situated proximal to each drill site – once the precise collar site has been identified. No water source utilized will be drawn down.**

**All potential water sources on the property can be seen on Figures 4 or 5 (Section 8).**

21. Describe the estimated rate of water consumption (m<sup>3</sup>/day).

**Estimating 30 to 100m<sup>3</sup>/day depending upon several variable factors: e.g. number of crew onsite, drilling activity, number of drills on site, etc. Camp water will be drawn under the existing permit issued to Elgin Mining for the Ulu Minesite Camp.**

22. Describe how waste water will be managed. If relevant, provide detail regarding location of sumps, including capacity of sumps and monitoring.

At the Ulu Camp, solid waste sewage is treated prior to release into the environment. Treatment consists of an enclosed, rotating biological contractor which has been sized to handle the sewage discharge from the camp. Once treated, the clean effluent is released into East Lake. Sludge from the sewage treatment system will be disposed in an above ground sump, greater than 100m from any body of water, within the site disturbance area.

Pacto toilets may also be utilized. "Pacto-type" toilets may also be utilized and it is estimated that about 0.02 m<sup>3</sup>/day per person of camp sewage will be generated, which will be incinerated onsite and/or placed in latrine sumps. Latrine sumps will be treated daily with lime and/or as advised by the Water Resource Officer and back-filled for closure. All ash from incinerated sewage will be buried.

All sumps will be of appropriate size. Sumps will be regularly monitored and managed. Cleaning will be undertaken prior to and overflow or spillage of sump material. Sludges will be properly disposed. Care and disposal are discussed in the company's Waste Management Plan.

SEE: Attached WPC Waste Management Plan.

23. If applicable, discuss how surface water and underground water will be managed and monitored.

A water sample will be obtained and analyzed upon opening the Ulu Minesite Camp in 2014 and as required thereafter. Subsequent testing will occur each year thereafter during the duration of the program. Any elevated results will trigger appropriate response and further testing.

If during drilling, any artesian flow is encountered in any of the drill holes, upon completion of the hole, the hole will be securely sealed/cemented to prevent any escape of water through the casing/drill hole.

#### Waste Water (Grey water, Sewage, Other)

24. Describe the quantities, treatment, storage, transportation, and disposal methods for the following (where relevant):

**NOTE: An arrangement has been reached whereby WPC crews will be using the Ulu Camp of Elgin Mining. This camp will be operating under existing permits issued to Elgin Mining for the Ulu Minesite Camp.**

- Sewage:

Sewage will be treated by the existing Ulu septic system. Initially, estimated volume will be low, (1.0m<sup>3</sup>/day). This will increase in response to an increase in the number of crew members onsite.

- Camp grey water

An estimate for the production of camp grey water is 10 m<sup>3</sup>/day. All water will be returned either through the Ulu septic system or at drill sites through a sump.

- Combustible solid waste

All combustible solid waste material will be sealed in appropriate containers and backhauled to Yellowknife for disposal. Paper, untreated wood, natural fibres and cardboard may be burned.

- Non-combustible solid waste, including bulky items/scrap metal  
All non-combustible solid waste will be held onsite for backhaul to Yellowknife for disposal or recycling. Arrangements have been made with the City of Yellowknife to accept the backhaul of all camp generated non-combustible garbage and recycle material at the Yellowknife solid waste facilities. (Figure 10 (Section 8)).

- Hazardous waste or oil  
Very little hazardous waste or oil will be generated onsite. All will also be stored onsite in sealed containers for backhaul to Yellowknife for disposal or recycling.

- Contaminated soils/snow  
With proper planning and care, no contaminated soil or snow should be generated onsite. As per the attached WPC Fuel Spill Contingency Plan, contaminated snow will be collected and shipped to Yellowknife for disposal. Any contaminated soil will be aerated on tarps or collected in containers and shipped to Yellowknife for disposal. If a spill occurs and absorbent material are utilized to absorb any hydrocarbons, they will be secured in containers and backhauled to Yellowknife for disposal.

- Empty barrels/ fuel drums  
Empty fuel drums will be shipped offsite as backhaul cargo for all incoming camp supply flights where they will be washed and recycled.

- Any other waste produced  
All other waste will be packed in containers and backhauled to Yellowknife for disposal or recycling.

SEE: Attached WPC Waste Management Plan.

25. If the project proposal includes a landfill or landfarm, indicate the locations on a map, provide the conceptual design parameters, and discuss waste management and contact-water management procedures.

No landfill or landfarm will be utilized during the proposed program.

## Fuel

26. Describe the types of fuel, quantities (number of containers, type of containers and capacity of containers), method of storage and containment. Indicate the location on a map where fuel is to be stored, and method of transportation of fuel to project site.

WPC will have access to any bulk/drum fuel currently stored onsite at the Ulu Minesite. Once consumed (assuming any Elgin fuel remaining onsite remains useable), all additional fuel will be mobilized to the Ulu Camp via available fixed wing aircraft. All additional fuel will be moved onsite via aircraft on an “as required” basis.. All new WPC fuel (except propane) will be stored in 205 litre (45 gallon) drums. Propane will be stored in regulation 100 pound cylinders. All fuel drums, bungs and seals will be in good condition to prevent leakage. Over the short term (while moving fuel from airstrip to berm at the Ulu Camp) where here fuel is not within the berm, the tanks will be stored on their side, again, positioned so that a line drawn between the two bung openings is horizontal

It is *estimated* that the following quantities of fuel will be required during each field season. If the program is successful and additional drill rigs are mobilized onsite, the annual fuel consumption will increase accordingly.

Product	Amount	Container	Use
Diesel (P50)	200 drums	45 gallon drum	Drill and heat, power

Jet B fuel	150 drums	45 gallon drum	Helicopter fuel
Propane	20 bottles	100 lb tanks	Cooking and hot water
Gasoline	5 drums	45 gallon drum	Rock saws, pumps, (and vehicles).

(An Elgin vehicle is currently onsite ONLY to be used to transport personnel, goods and supplies along existing roads from the Ulu airstrip to the camp.)

Total propane stored onsite at the Ulu base camp is estimated to be 5-7 canisters (100 lb) that will be re-supplied as required during food re-supply flights. It is *estimated* that approximately 20 bottles will be required in total during one field season. In addition, not all diesel and Jet A/B fuel will be stored on site at one time. The fuel supply will be replenished on an “as required” basis as it will be flown onsite by aircraft based out of Yellowknife. All fuel containers will be properly labelled and sealed with WPC’s name, fuel product type, and year the product was purchased or filled.

The existing runway can accommodate all aircraft up to Buffalo Airways C47 aircraft. Fuel drums will be inspected upon arrival (for dints, leaks, cracked gaskets, etc.) prior to being transported via helicopter from the runway to the fuel storage berm at the Ulu Campsite.

Diesel and Jet fuel will be held in standard, sealed and properly labeled 205 litre metal drums. They will be stored on their side with bungs/vents at the horizontal 3 and 9 o’clock positions. The fuel storage will be contained within a secondary containment berm.

The secondary containment berm is a temporary berm that is capable of holding 110% of the volume of the fuel stored within. Where fuel is not within the berm, the tanks will be stored on their side positioned so that a line drawn between the two bung openings is horizontal. This storage method prevents contact of surface water with the bungs and possible contamination of the fuel. This position also keeps the bung seals submerged in fuel, which prevents the seals from drying out and subsequently leaking.

Propane will be stored upright, in standard “100 pound” cylinders.

Once reaching the fuel storage the drum inventory will be inspected regularly during the field season.

**SEE: WPC Fuel Spill Contingency Plan (attached).**

27. Describe any secondary containment measures to be employed, including the type of material or system used. If no secondary containment is to be employed, please provide justification.

**Fuel caches and any potentially hazardous material that might arrive onsite, will be located within secondary containment-type units (e.g. “insta-berm”) manufactured with chemical and fire resistant fabric designed for arctic temperatures and appropriate for containing waste water, petroleum products and various other chemicals.**

**As per the WPF Fuel Spill Contingency Plan (attached), appropriate types and numbers of spill kits will be fully stocked and onsite at all times.**

28. Describe the method of fuel transfer and the method of refuelling.

When fueling, the fuel drum will be stood on end and blocked with the high side at 12 o'clock, the bung at 3 o'clock and the vent at 9 o'clock. This will prevent dirty fuel/debris from reaching the openings. The standpipe will be placed in a manner so that it will not be able to reach the lowest point in the drum, thereby ensuring that any water or dirt in the drum will remain in the drum. On pumping all useable fuel out of the drum. The bung and vent (with gaskets) will be securely refastened into the threaded opening to prevent leakage while being stored prior to their backhaul to Yellowknife for cleaning and recycling.

29. Describe spill control measures in place.  
**SEE: Attached WPC Fuel Spill Contingency Plan.**

Please refer to Environment Canada's fuel storage tank system regulations (*Storage Tank System for Petroleum and Allied Petroleum Products*) website at <http://www.ec.gc.ca/st-rs/> for details on fuel storage requirements.

### **Chemicals and Hazardous Materials\***

*\*included but not limited to oils, greases, drill mud, antifreeze, calcium or sodium chloride salt, lead acid batteries and cleaners*

30. Describe the types, quantities (number of containers, the type of container and capacity of containers), method of storage and containment. Indicate the location on a map where material is to be stored, and method of transportation of materials to project site.

**Chemicals to be used on site will be limited to household-strength cleaning supplies such as Javex, ammonia-based window/countertop sprays, wash soaps, degreasers, etc. In addition, limited miscellaneous items such as antifreeze, insect repellent and aerosols will be available. All items will be stored in their original containers in their respective storage / use areas, and removed off-site with routine garbage backhauls. When drilling is under way, the contractor responsible will store the required drilling muds, additives, oils and lubricants in a temporary shed at drill site or camp; upon annual termination of the project, these materials would be removed via back haul to Yellowknife to be properly disposed of in a landfill. All hazardous materials, wet cell batteries, cleaners, lubricants and drill additives will be stored in a wooden walled and floored tent at the base camp.**

**Specifically, the following items will all be stored at camp:**

- **Generator Oil:** approximately 24 litres of 5 or 10/W30 grade motor oil. Oil will be contained in its original, sealed packaging until used for the generator in camp. Used oil will be re-sealed in containers and backhauled to Yellowknife and subsequently forwarded on to an appropriate facility for final disposal or recycling.
- **Wet/Dry Cell Batteries:** Used batteries will be stored and backhauled to Yellowknife for proper disposal. They will not be put in the garbage; nor will they be incinerated.
- **Household Cleaners:** These products are required for kitchen and bathroom use in the Ulu Camp. Non-combustible containers will be backhauled to Yellowknife for proper disposal.

**All material will be securely stored in the storage area/tent until required.**

All items will be transported to the Ulu Campsite via fixed wing aircraft (potentially utilizing any aircraft in size from the Single/Twin Otter to the C47). All aircraft will land on the existing 1200m Ulu Airstrip, located immediately south of the existing Ulu Campsite.

31. Describe any secondary containment measures to be employed, including the type of material or system used.  
**The generator will be inside a wooden generator shack. Fueling and oil changes will be undertaken inside this structure. As at all re-fuelling stations, appropriate Spill Kits will be located at the generator shack.**  
**All other material (soaps, cleansers, degreasers, javex, etc. will be securely stored in the storage area/tent until required.**
32. Describe the method of chemical transfer.  
**All chemicals and hazardous materials will be brought to the camp site in their original container via fixed wing; either during the initial camp set up or through weekly re-supply flights. The drill additives will be transferred according to the manufacturer's guidelines and the operating procedures of the drill contractor.**  
**Extreme care will be taken in the process of transferring all chemicals/chemical solutions/fuels/etc. Funnels will be utilized to direct small amounts of liquid to reduce the potential of spillage. Spill mats will be in place when refuelling.**
33. Describe spill control measures in place.  
**SEE: WPC Fuel Spill Contingency Plan (attached).**

#### **Workforce and Human Resources/Socio-Economic Impacts**

34. Discuss opportunities for training and employment of local Inuit beneficiaries.  
**WPC will hire local Inuit beneficiaries wherever possible. The company will attempt to hire local Inuit from Kugluktuk or Bathurst Inlet for seasonal camp duties, core processing technicians and wildlife specialists. All persons will be fully trained onsite and be provided with appropriate personal protective equipment (PPE).**
35. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site.  
**The project is FIFO. Local hires will generally work a rotation of at least 2 weeks in camp with the next 2 weeks off. Other personnel may work up to six weeks at a time, depending upon the job and the time of year.**
36. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries.  
**WPC will strive to hire local personnel and support local businesses wherever possible. WPC will aim, whenever possible, to purchase merchandise locally.**

#### **Public Involvement/ Traditional Knowledge**

37. Indicate which communities, groups, or organizations would be affected by this project proposal.  
**The property is located immediately east of, and adjacent to, the Ulu Minesite currently owned by Elgin Mining Incorporated. In addition, regionally, it is situated approximately 125 kilometres west of Bathurst Inlet, 340 kilometres**

southwest of Cambridge Bay and 210 kilometres southeast of Kugluktuk (Figure 1 (Section 8)).

38. Describe any consultation with interested Parties which has occurred regarding the development of the project proposal.  
**To date, since the program has yet to begin, there has been no consultation with interested parties. As the program progresses forward, WPC would anticipate meeting with community representatives from Kugluktuk and Bathurst Inlet to inform them of current plans/progress. The company will also maintain an open dialogue with KIA and NTI representatives.**
39. Provide a summary of public involvement measures, a summary of concerns expressed, and strategies employed to address any concerns.  
**Not applicable as the company has yet to have any public involvement.**
40. Describe how traditional knowledge was obtained, and how it has been integrated into the project.  
**As this currently is only an initial, grassroots-type exploration program, no public involvement has been planned and no traditional knowledge has been obtained. The company currently is not aware of any public concerns.**
41. Discuss future consultation plans.  
**As the program progresses forward, WPC would anticipate meeting with community representatives from Kugluktuk and Bathurst Inlet to inform them of current plans/progress. The company will also maintain an open dialogue with KIA and NTI representatives.**

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### 3. PROJECT SPECIFIC INFORMATION

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The following table identifies the project types identified in Section 3 of the NIRB, Part 1 Form. Please complete all relevant sections.

It is the proponent's responsibility to review all sections in addition to the required sections to ensure a complete application form.

**Table 1: Project Type and Information Required**

Project Type	Type of Project Proposal		Information Request
1	All-Weather Road/Access Trail	N/A	Section A-1 and Section A-2
2	Winter Road/Winter Trail	N/A	Section A-1 and Section A-3
3	<b>Mineral Exploration</b>	<b>COMPLETED</b>	Section B-1 through Section B-4
4	Advanced Mineral Exploration	N/A	Section B-1 through Section B-8

5	Mine Development/Bulk Sampling	N/A	Section B-1 through Section B-12
6	Pits and Quarries	N/A	Section C
7	Offshore Infrastructure(port, break water, dock)	N/A	Section D
8	Seismic Survey	N/A	Section E
9	Site Cleanup/Remediation	N/A	Section F
10	Oil and Natural Gas Exploration/Activities	N/A	Section B-3 and Section G
11	Marine Based Activities	N/A	Section H
12	Municipal and Industrial Development	N/A	Section I

## SECTION A: Roads/Trails

### A-1. Project Information

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

1. Describe any field investigations and the results of field investigations used in selecting the proposed route (e.g. geotechnical, snow pack)  
N/A
2. Provide a conceptual plan of the road, including example road cross-sections and water crossings.  
N/A
3. Discuss the type and volume of traffic using the road/trail (i.e. type of vehicles and cargo and number of trips annually).  
N/A
4. Discuss public access to the road.  
N/A
5. Describe maintenance procedures.  
N/A
6. Describe whether any portion of the road will be located outside of the Nunavut Settlement Area and whether any other regulatory requirements must be met (e.g. CEAA).  
N/A

### A-2. All-Weather Road/Access Trail

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

7. Discuss road design considerations for permafrost.  
N/A
8. Describe the construction materials (type and sources for materials), and the acid rock drainage (ARD) and metal leaching characteristics of the construction materials.  
N/A
9. Discuss construction techniques, including timing for construction activities.  
N/A
10. Indicate on a map the locations of designated refuelling areas, water crossings, culverts, and quarries/borrow sources.  
N/A

11. Identify the proposed traffic speed and measures employed to ensure public safety.  
N/A
12. Describe dust management procedures.  
N/A

### A-3. Winter Road/Trail

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

13. Describe the surface preparation, including the use of snow berms or compaction, and any flooding. If flooding is to be used, provide the location of the water source on a map.  
N/A
14. Describe the operating time period.  
N/A
15. Identify the proposed traffic speed and measures employed to ensure public safety.  
N/A
16. Discuss whether the selected route traverses any fish-bearing water bodies.  
N/A

## SECTION B: Mineral Exploration /Advanced Exploration /Development

### B-1. Project Information

1. Describe the type of mineral resource under exploration.  
**The primary target is structurally controlled lode gold mineralization very similar to the Red Lake deposits of Ontario or the adjacent Ulu Deposit, Nunavut.**  
**With the Tenacity Diamondiferous kimberlite occurring within the project area, additional kimberlite intrusions are also a potential target.**

### B-2. Exploration Activity

2. Indicate the type of exploration activity:
  - Bulk Sampling (underground or other)  
**No bulk sampling will be undertaken.**
  - Stripping (mining shallow bedded mineral deposits in which the overlying material is stripped off, the mineral removed and the overburden replaced)  
**No stripping (or road building) is planned so there should be no overburden removal. If top soil is removed during soil sampling it will be replaced after the sample has been obtained.**
  - Trenching  
**At the point of permit submission, no plans exist for blasted trenches to be cut. If, in the future, this becomes necessary, GN, NIRB, KIA and NWB will be re-contacted prior to any blasting program being initiated.**  
**Shallow manual trenching using a shovel may be undertaken to expose mineralized zones for sampling. During this activity, topsoil will be set aside. Trenches will be back-filled and the original top soil will be replaced as part of the remediation process.**

- Pitting

As with trenching, pitting at this point is not being considered. If in the future, pitting becomes necessary, GN, NIRB, KIA and NWB will be re-contacted prior to any blasting program.

- Delineation drilling

The program is not at the point where delineation drilling will be required.

- Preliminary Delineation drilling

The program is not at the point where preliminary delineation drilling will be required.

- Exploration drilling

Exploration drilling will be undertaken. Relatively shallow, exploration drilling is planned to test known surface showings and any geophysical anomalies identified by past or proposed future surveys. Currently, the maximum hole depth is estimated to be approximately 300m (dependent upon results). It is expected that the drilling program will not start on the property until at least late 2015.

- Geophysical work (indicate ground and/or air)

Ground magnetic, gravity, electromagnetic and IP geophysical surveys are currently being considered to be undertaken over the proposed grid area (Figure 5 (Section 8)) that has yet to be established over the property.

Additional airborne surveys may be considered as the property exploration progresses.

- Other

Prospecting, sampling and geologic mapping will be undertaken throughout the entire property with a focus on areas of known mineralization.

3. Describe the exploration activities associated with this project:

- Satellite remote sensing

No satellite remote sensing will be undertaken over the property.

- Aircraft remote sensing

No aircraft remote sensing will be undertaken over the property.

- Soil sampling

Till/soil sampling surveys will be carried out in areas of poor exposure and in key areas of focus that will lie under the proposed grid area (Figure 5 (Section 8)). Samples will be taken at 25m intervals. Samples will be ideally obtained from areas of frost boil; however, if this structure is not locally available and the overlying layer of top soil has to be disturbed at the sample site, it will be replaced after the sample has been obtained.

- Sediment sampling

No sediment sampling is currently being considered to be undertaken within the HOODRIVER-001 MEA Property.

- On land drilling (indicate drill type)

An initial 2000 to 3000 metre diamond drill program is proposed for late 2015 depending upon initial geological and geophysical results. Timing is conditional on a required archaeological survey and subsequent receipt of the required Archaeological Permit.

The drill contractor for any proposed summer drill program, and the drill type has yet to be identified; however the drill type will probably be similar to a Longyear 44/Boyles 35-type drill.

- On ice drilling (indicate drill type)

Currently no “On Ice” drilling is planned. Should it become necessary, (this program would test underwater geophysical structures) the drill contractor for any proposed winter “On Ice” drill program, and drill type again also has yet to be identified; however the drill type will probably be similar to a Longyear 44/Boyles 35-type drill.

If “On Ice” drilling becomes required at some point, drilling fluids and cuttings will be contained to prevent contact with the ice surface or water. A method to clean up an accidental spill of this material will be devised and the required equipment made available prior to the commencement of operations. Fluids and/or cuttings will be disposed of on land in a natural depression or excavated sump or otherwise in accordance with regulations and the underlying KIA land use permit.

- Water based drilling (indicate drill type)

**No water based drilling will be undertaken within the HOODRIVER-001 MEA Property.**

- Overburden removal

**Any topsoil removed during any program activity, will be saved and replaced during the remediation process. If top soil is removed during soil sampling it will be replaced after the sample has been obtained.**

- Explosives transportation and storage

**Currently, there are no plans for explosives use, transportation or storage within the HOODRIVER-001 MEA Property. If at some point company plans change, GN, NIRB, NWB and KIA will be re-contacted prior to any blasting program being initiated.**

- Work within navigable waters

**No boats will be used onsite and no work will be undertaken within navigable waters.**

- On site sample processing

**All geochemical/assay samples will be dried, packaged and shipped off site to Yellowknife/Vancouver for processing. Core will be cut onsite, sampled with the remaining portion stored onsite as per the requirement of the underlying MEA. All cuttings will be directed to a sump, collected and disposed in the appropriate manner (buried).**

- Off site sample processing

**All geochemical/assay samples will be dried, packaged and shipped off site to Yellowknife/Vancouver for processing.**

- Waste rock storage

**No waste rock will be generated.**

- Ore storage

**Currently, there is no ore defined on site.**

- Tailings disposal

**There will be no tailings generated.**

- Portal and underground ramp construction

**As the current program is a grass-roots exploration program, there is no portal or underground ramp planned.**

- Landfilling

**N/A**

- Landfarming

**N/A**

- Other

N/A

### B-3. Geosciences

4. Indicate the geophysical operation type:
- Seismic (please complete Section E)

N/A

- Magnetic

**Ground magnetic and potentially additional airborne magnetic/EM surveys will be undertaken over the proposed grid area and the property respectively (Figure 5 (Section 8)).**

- Gravimetric

**Ground gravity surveys will be undertaken over the proposed grid area of the property (Figure 5 (Section 8)).**

- Electromagnetic

**Ground electromagnetic and potentially additional airborne electromagnetic surveys will be undertaken over the proposed grid area and the property respectively (Figure 5 (Section 8)).**

- Other (specify)

N/A

5. Indicate the geological operation type:

- Geological Mapping

**Geologic mapping will be undertaken over the entire property with a focus on known mineralized areas (Figure 4 (Section 8)).**

- Aerial Photography

**No aerial photographic surveys will be undertaken over the HOODRIVER-001 MEA Property.**

- Geotechnical Survey

**Drilling program is planned once targets have been identified. Soil sampling surveys and geophysical surveys will also be undertaken.**

- Ground Penetrating Survey

**No ground penetrating radar surveys are planned.**

- Other (specify)

N/A

6. Indicate on a map the boundary subject to air and/or ground geophysical work.

**The proposed grid area is shown on Figure 5 (Section 8). Any additional airborne surveys will be undertaken within the boundary of HOODRIVER-001 MEA (also shown on Figure 4 and 5 (Section 8)).**

7. Provide flight altitudes and locations where flight altitudes will be below 610m.

**Surveys are only being considered at this point of NIRB Screening therefore no flight lines are available yet however if airborne surveys are to be undertaken in future, all flight lines will be within the boundary of HOODRIVER-001 MEA Property (shown on Figure 4, and 5 (Section 8)).**

**KIA will be notified of the company's plans for any airborne surveys during the initial planning stage, well prior to any airborne surveys being initiated.**

### B-4. Drilling

8. Provide the number of drill holes and depths (provide estimates and maximums where possible).

At the point of NIRB Project Screening submission, it is estimated that approximately up to 30 short drill holes will be collared. Approximately 2000 to 3000 metres of land based drilling will be planned for the first phase of drilling. Most of the Phase One drilling will be undertaken during 2016 after the archaeological survey has been conducted in mid to late 2015. WPC is not expecting to receive the required archaeological permit before late 2015. Drilling will not be initiated until the required permit has been issued to the company.

9. Discuss any drill additives to be used.

The exact drill additives are not known at this time. WPC Resources Incorporated will ensure that drilling contractor maximizes the use of non-toxic and biodegradable additives. The company's Fuel Spill Contingency Plan will be updated with appropriate MSDS sheets once the additives have been determined.

However, until confirmed, it is assumed that the following materials may potentially be present at the drill site:

- drill fluid additive "550X polymer" (consists of copolyacrylamide / sodium acrylate and does not have any hazardous ingredients)
- tube grease - Beacon 2, Beacon 3, threokote 706, Z-50 pipe dope
- calcium chloride flake
- circulation polymer – G-stop
- antifreeze – Esso HD antifreeze
- rod grease – Big Bear diamond drill rod grease
- drill fluid additive – 550X polymer
- motor oil – super plus SAE 10W30 and 15W-40
- hydraulic oil – Harmony AW 22, 32, 46, 68

10. Describe method for dealing with drill cuttings.

Drill cuttings will be pumped/directed to a sump (natural depression or temporary dike) located a minimum of 31 metres from any surface water body where the water will then infiltrate back into ground and the cuttings will settle out; direct flow of the drill water back into a water body will not be permitted or possible; consequently, no additional impacts are created. On completion of the drill hole, the cuttings will be allowed to dry out and subsequently buried. If overburden has to be disturbed, it will be removed and stockpiled so that it can be replaced on top during backfilling. All sumps shall be backfilled with native surficial material upon completion of drilling and contoured to match the existing landscape.

As the program progresses, there potentially could be several drill holes planned on ice over some of the larger lakes (Penthouse, Ulu, Reno, Bristol, etc.). In this case, drilling fluids and cuttings will be contained to prevent contact with the ice surface or water. A method to clean up an accidental spill of this material will be devised and the required equipment made available prior to the commencement of operations. Fluids and/or cuttings will be disposed of on land in a natural

depression or excavated sump or otherwise in accordance with the land use permit.

11. Describe method for dealing with drill water.

**DIAMOND DRILL:** Bio-degradable drilling fluids will be used at all times where ever possible. Drilling fluids will be directed into a sump or (a series of) settling tanks. Cuttings will be settled out and the water filtered back into the environment or re-circulated for drilling. Drill cuttings once settled will be allowed to dry and subsequently will be buried.

**CORE SAW:** Wastewater from core sawing will be controlled to prevent erosion of the ground surface and the silting of watercourses. Where practicable, it should be contained and recycled through the core saw. Cuttings from sulphide-rich core have the potential to acidify any soils with which they contact. All cuttings and unwanted core off-cuts or pieces will be contained and disposed of by burial or otherwise disposed of according to regulations.

12. Describe how drill equipment will be mobilized.

The drill, drilling equipment and drill accessories (pumps, hose, tanks, etc.) will be mobilized to the site via aircraft. Permission to utilize the adjacent Ulu runway has been requested and has been formalized. Once at the airstrip, the drill and ancillary equipment will be transported to and from the drill sites via contract helicopter based at the base camp. No roads or skid tracks will be utilized.

The Ulu airstrip is located at 66° 52'57" N and 111° 00' 20" W. It is a gravel airstrip approximately 1200 metres in length.

13. Describe how drill holes will be abandoned.

All holes will be temporarily plugged immediately upon completion of the drilling, using whatever safe means available (e.g. rocks), to eliminate any hazard to wildlife. Prior to, or on completion of, the program, all open holes will be plugged with a proper down hole plug and the area above the plug filled in. If later relocation of the hole is not required, casing will be removed whenever possible. Any remaining/fused casing will be cut off to ground level or below and capped. Any excess drill chips will be poured back down the hole. Any holes with flowing water will be permanently sealed unless written instruction from the relevant authority is received to indicate otherwise.

14. If project proposal involves uranium exploration drilling, discuss the potential for radiation exposure and radiation protection measures. Please refer to the *Canadian Guidelines for Naturally Occurring Radioactive Materials* for more information.

**Uranium is not a concern with this project.**

#### **B-5. Stripping/ Trenching/ Pit Excavation**

15. Discuss methods employed. (i.e. mechanical, manual, hydraulic, blasting, other)

**If trenching is to be utilized it will be very localized and undertaken by manual labour. Trenches will be shallow due to the underlying permafrost. If at some point company plans change, GN, NIRB, NWB and KIA will be re-contacted prior to any blasting program being initiated.**

16. Describe expected dimensions of excavation(s) including depth(s).

As the excavation activity will be undertaken manually, the resulting dimensions will small. Depth will be shallow due to the underlying permafrost, Absolute locations of all activities are dependent upon future exploration result.

17. Indicate the locations on a map.  
Precise work sites are currently unknown as they are dependent upon future/ongoing exploration program results. They will be within the HOODRIVER-001 MEA Property and probably at/adjacent to one of the known Showing locations (Figure 4 (Section 8)).
18. Discuss the expected volume material to be removed.  
Volumes of material to be removed will be small. Only sufficient material will be removed to facilitate obtaining a sample of the underlying rock. Removal of significant amounts of overburden depth will be hindered by the underlying permafrost.
19. Discuss methods used to determine acid rock drainage (ARD) and metal leaching potential and results.  
NO ARD will occur as only naturally occurring glacial overburden will be removed to expose the underlying rock to sampling.

#### **B-6. Underground Activities**

This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.

20. Describe underground access.  
N/A
21. Describe underground workings and provide a conceptual plan.  
N/A
22. Show location of underground workings on a map.  
N/A
23. Describe ventilation system.  
N/A
24. Describe the method for dealing with ground ice, groundwater and mine water when encountered.  
N/A
25. Provide a Mine Rescue Plan.  
N/A

#### **B-7. Waste Rock Storage and Tailings Disposal**

This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.

26. Indicate on a map the location and conceptual design of waste rock storage piles and tailings disposal facility.  
N/A
27. Discuss the anticipated volumes of waste rock and tailings.  
N/A
28. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.  
N/A

## B-8. Stockpiles

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

29. Indicate on a map the location and conceptual design of all stockpiles.

N/A

30. Describe the types of material to be stockpiled. (i.e. ore, overburden)

N/A

31. Describe the anticipated volumes of each type of material to be stockpiled.

N/A

32. Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile.

N/A

33. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.

N/A

## B-9. Mine Development Activities

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

34. Indicate the type(s) of mine development activity(s):

N/A

- Underground
- Open Pit
- Strip Mining
- Other

35. Describe mine activities.

N/A

- Mining development plan and methods
- Site access
- Site infrastructure (e.g. airstrip, accommodations, offshore infrastructures, mill facilities, fuel storage facilities, site service roads)
- Milling process
- Water source(s) for domestic and industrial uses, required volumes, distribution and management.
- Solid waste, wastewater and sewage management
- Water treatment systems
- Hazardous waste management
- Ore stockpile management
- Tailings containment and management
- Waste rock management
- Site surface water management
- Mine water management
- Pitting and quarrying activities (please complete Section C)
- Explosive use, supply and storage (including on site manufacturing if required)
- Power generation, fuel requirements and storage
- Continuing exploration
- Other

36. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.

N/A

#### **B-10. Geology and Mineralogy**

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

37. Describe the physical nature of the ore body, including known dimensions and approximate shape.
38. Describe the geology/ mineralogy of the ore deposit
39. Describe the host rock in the general vicinity of the ore body.
40. Discuss the predicted rate of production.
41. Describe mine rock geochemical test programs which have been or will be performed on the ore, host rock, waste rock and tailings to determine acid generation and contaminant leaching potential. Outline methods and provide results if possible.

N/A

N/A

N/A

N/A

N/A

#### **B-11. Mine**

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

42. Discuss the expected life of the mine.
43. Describe mine equipment to be used.
44. Does the project proposal involve lake and/or pit dewatering? If so, describe the activity as well as the construction of water retention facilities if necessary.
45. Discuss the possibility of operational changes occurring during the mine life with consideration for timing. (e.g. open pit to underground)
46. If project proposal involves uranium mining, consider the potential for radiation exposure and radiation protection measures. Particular attention should be paid to *The Nuclear Safety and Control Act*.

N/A

N/A

N/A

N/A

N/A

#### **B-12. Mill**

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

47. If a mill will be operating on the property in conjunction with mining, indicate whether mine-water may be directed to the mill for reuse.

N/A

48. Describe the proposed capacity of the mill.

N/A

49. Describe the physical and chemical characteristics of mill waste as best as possible.  
N/A
50. Will or does the mill handle custom lots of ore from other properties or mine sites?  
N/A

### SECTION C: Pits and Quarries

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

1. Describe all activities included in this project.
  - Pitting
  - Quarrying
  - Overburden removal
  - Road use and/or construction (please complete Section A)
  - Explosives transportation and storage
  - Work within navigable waters
  - Blasting
  - Stockpiling
  - Crushing
  - Washing
  - OtherN/A
2. Describe any field investigations and the results of field investigations used in determining new extraction sites.  
N/A
3. Identify any carving stone deposits.  
N/A
4. Provide a conceptual design including footprint.  
N/A
5. Describe the type and volume of material to be extracted.  
N/A
6. Describe the depth of overburden.  
N/A
7. Describe any existing and potential for thermokarst development and any thermokarst prevention measures.  
N/A
8. Describe any existing or potential for flooding and any flood control measures.  
N/A
9. Describe any existing or potential for erosion and any erosion control measures.  
N/A
10. Describe any existing or potential for sedimentation and any sedimentation control measures.  
N/A
11. Describe any existing or potential for slumping and any slump control measures.  
N/A
12. Describe the moisture content of the ground.  
N/A
13. Describe any evidence of ice lenses.  
N/A
14. If blasting, describe methods employed.  
N/A

15. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.  
N/A
16. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.  
N/A
17. Discuss safety measures for the workforce and the public.  
N/A

## SECTION D: Offshore Infrastructure

### D-1. Facility

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

1. Describe any field investigations and the results of field investigations used in selecting the site (i.e. aerial surveys, bathymetric surveys, tidal processes, shoreline erosion processes, geotechnical foundation conditions)  
N/A
2. Provide a conceptual plan, profile description and drawing(s) indicating shoreline, facility footprint, tidal variations, required vessel draft, keel offset, deck height freeboard  
N/A
3. Discuss how anticipated loads on the seabed foundation and on the offloading platform will be incorporated into the design.  
N/A
4. Describe how vessels will manoeuvre around the facility. (e.g. pull alongside or in front)  
N/A
5. Discuss the anticipated life of the facility.  
N/A
6. Describe whether part of the facility or project will be located outside of the Nunavut Settlement Area and whether any other regulatory requirements must be met (e.g. CEAA).  
N/A

### D-2. Facility Construction

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

7. Describe the types of material used for construction (i.e. granular or rock, steel piling or sheet piling, concrete). If material is granular, consider acid rock drainage potential, metal leaching potential, percentage of fines, size.  
N/A
8. Describe dredging activities.  
N/A
9. Indicate source of granular or rock material used in construction.  
N/A
10. List quantities of the various types of material used in construction.  
N/A

11. Describe construction method(s).  
N/A
12. Indicate whether a site engineer will be on-site to inspect construction.  
N/A
13. If proposed construction method involves dumping of fill into water, discuss measures for mitigating the release of suspended solids.  
N/A

### D-3. Facility Operation

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

14. Describe maintenance activities associated with the facility (e.g. dredging, maintenance to account for potential settlement of facility,)  
N/A
15. Discuss whether the public will have access to the facility(s) and describe public safety measures.  
N/A
16. Describe cargo and container handling, transfer and storage facilities.  
N/A
17. Indicate whether fuel will be transferred from barges at this site and describe the method of that fuel transfer.  
N/A
18. Discuss frequency of use.  
N/A

### D-4. Vessel Use in Offshore Infrastructure

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

19. Please complete Section H  
N/A

## SECTION E: Seismic Survey

### E-1. Offshore Seismic Survey

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

1. Indicate whether the survey is 2D or 3D at each site.  
N/A
2. Describe the type of equipment used, including:
  - Type and number of vessels including length, beam, draft, motors, accommodation capacity, operational speeds when towing and when not towing
  - Sound source (type and number of airguns)
  - Type and number of hydrophones

- Number, length, and spacing of cables/ streamers  
N/A
- 3. On a map, indicate the grid, number of lines and total distance covered by each line, the distance to nearby community/communities and sensitive areas (e.g., National Parks, National Wildlife Areas, Migratory Bird Sanctuaries, recognized breeding grounds or migratory routes).  
N/A
- 4. Indicate the discharge volume of the airguns, the depth of airgun discharge, the noise levels of acoustic signal at various distances from the source (e.g., 500 metres, 1000 metres), and the frequency and duration of airgun operation at each site.  
N/A
- 5. Discuss the potential for dielectric oil to be released from the streamer array, and describe proposed mitigation measures.  
N/A
- 6. Indicate whether additional seismic operations are required for start-up of operations, equipment testing, repeat coverage of areas.  
N/A
- 7. Indicate whether air gun procedures will include a “ramping up” period and, if so, the proposed rate of ramping up.  
N/A
- 8. Indicate whether the measures described in the *Statement of Canadian Practice for Mitigation of Noise in the Marine Environment* will be adhered to for this project.  
N/A
- 9. Describe whether any part of the project will be located outside of the Nunavut Settlement Area and whether any other regulatory requirements must be met (e.g. CEAA).  
N/A

## E-2. Nearshore/Onshore Seismic Survey

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

- 10. For each site, indicate whether nearshore and onshore surveys will be conducted during the ice season or once the ice has melted.  
N/A
- 11. Describe how nearshore and onshore areas will be accessed.  
N/A
- 12. Describe the survey methods to be used (e.g. explosive charge, vibration, air or water gun, other).  
N/A
- 13. Describe equipment to be used,  
N/A
- 14. If applicable, indicate number, depth and spacing of shot holes.  
N/A
- 15. Describe explosive wastes including characteristics, quantities, treatment, storage, handling, transportation and disposal methods.  
N/A

## E-3. Vessel Use in Seismic Survey

This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.

16. Please complete Section H.  
N/A

## SECTION F: Site Cleanup/Remediation

This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.

**SEE: WPC Abandonment and Decommissioning Plan (attached)**

1. Describe the location, content, and condition of any existing landfills and dumps (indicate locations on a map).  
**All Camp garbage remaining onsite will be shipped to Yellowknife for disposal/recycling.**
2. Identify salvageable equipment, infrastructure and/or supplies.  
N/A
3. Provide a list of all contaminants to be cleaned up, anticipated volumes and a map delineating contaminated areas. This includes buildings, equipment, scrap metal and debris, and barrels as well as soil, water (surface and groundwater) and sediment.  
N/A
4. Describe the degree of pollution/contamination, and list the contaminants and toxicity.  
N/A
5. Describe technologies used for clean-up and/or disposal of contaminated materials. Include a list of all the physical, chemical and biological cleanup/ remediation methods, operational procedures, and the dosage/frequency of reagents and bacterial medium.  
N/A
6. Identify and describe all materials to be disposed of off site, including the proposed off site facilities, method of transport and containment measures.  
N/A
7. Discuss the viability of landfarming, given site specific climate and geographic conditions.  
N/A
8. Describe the explosive types, hazard classes, volumes, uses, location of storage (indicate on a map), and method of storage (if applicable).  
N/A
9. If blasting, describe the methods employed.  
N/A
10. Describe all methods of erosion control, dust suppression, and contouring and re-vegetation of lands.  
N/A
11. Describe **all** activities included in this project.  
N/A
  - Excavation (please complete Section B-5)  
N/A
  - Road use and/or construction (please complete Section A)  
N/A
  - Airstrip use and/or construction  
N/A
  - Camp use and/or construction

- N/A
- Stockpiling of contaminated material  
N/A
- Pit and/or quarry (please complete Section C)  
N/A
- Work within navigable waters (please complete Section H)  
N/A
- Barrel crushing  
N/A
- Building Demolition  
N/A
- Other  
N/A

## SECTION G: Oil and Natural Gas Exploration/Activities

### G-1. Well Authorization

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

1. Identify the location(s) of the well centre(s) by latitude and longitude. Attach a map drawn to scale showing locations of existing and proposed wells.  
N/A
2. Indicate if the site contains any known former well sites.  
N/A
3. Include the following information for each well:
  - a. Well name
  - b. Surface location
  - c. Proposed bottomhole location
  - d. Ground elevation (in metres)
  - e. Spacing area (in units)
  - f. Identify the well type:
    - i. Production
    - ii. Injection
    - iii. Disposal
    - iv. Observation
    - v. Storage
    - vi. Experimental
    - vii. Other (specify)
  - g. Identify the well classification:
    - i. Exploratory wildcat
    - ii. Exploratory outpost
    - iii. Development
  - h. Drilling operation (deviation):
    - i. Vertical
    - ii. Directional
    - iii. Horizontal
    - iv. Slant

i. Objective Zones (copy chart style below)

Objective Formation	Fluid (oil/gas/water)	Depth (mTVD)	Core (Y/N)

- j. Proposed Total Depth in mTDV and mMD.
- k. Formation of Total Depth
- l. Sour well? (yes or no)
  - i. If Yes: Maximum H<sub>2</sub>S concentration in mol/kmol  
Emergency planning zone radius in km
- m. Blowout Prevention (Well Class I – VI)
- n. Deviation Surveys
  - i. Will be run at intervals less than 150m? (yes or no)
- o. Wireline logs
  - i. Will run logs in hole for surface casing? (yes or no)
  - ii. Will run a minimum of 2 porosity measuring logs? (yes or no)

N/A

## G-2. On-Land Exploration

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

- 4. Indicate if the site contains any known:
  - a. Waste Dumps
  - b. Fuel and Chemical Storage Areas
  - c. Sump Areas
  - d. Waste Water Discharge Locations
- 5. Attach maps drawn to scale showing locations of existing and proposed items identified in (2) above, as well as all proposed:
  - a. Sumps
  - b. Water sources
  - c. Fuel and chemical storage facilities
  - d. Drilling mud storage areas
  - e. Transportation routes
- 6. If utilizing *fresh water*, estimate maximum drawdown and recharge capability of the river or lake from which water will be drawn.
- 7. Indicate if permafrost is expected to be encountered under:
  - a. Camp Facilities
  - b. Well Site
  - c. Access Routes
  - d. Sumps

- e. Other: \_\_\_\_\_
- 8. Indicate any potential for encountering artesian aquifers or lost circulation within the surface hole (to casing depth).
- 9. Will drilling wastes contain detrimental substances (including, but not limited to, oil-based or invert mud and high salinity fluids)? If yes, indicate the substances and estimated volumes.
- 10. Indicate methods for disposal of drilling wastes:
  - a. Sump
  - b. Down Hole (requires NEB approval)
  - c. On-Site Treatment (provide plan)
  - d. Off-Site (give location and method of disposal)
- 11. If a sump is being used, attach the following information:
  - a. scale drawings and design of sumps
  - b. capacity in cubic metres
  - c. berm erosion protection
  - d. soil permeability and type
  - e. recycling/reclaiming waters
  - f. surface drainage controls
  - g. abandonment procedures
- 12. Attach the proposed or existing contingency plan which describes the course of action, mitigative measures and equipment available for use in the event of system failures and spills of hazardous materials.
- 13. Attach an outline of planned abandonment and restoration procedures.

### **G-3. Off-Shore Exploration**

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

- 14. Will drilling wastes contain detrimental substances (including, but not limited to, oil-based or invert mud and high salinity fluids)? If yes, indicate the substances and estimated volumes.
- 15. Attach the proposed or existing contingency plan which describes the course of action, mitigative measures and equipment available for use in the event of system failures and spills of hazardous materials.
- 16. Attach an outline of planned abandonment and restoration procedures.
- 17. Please complete Section H.

### **G-4. Rig**

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

- 18. Type of Rig. Draw works, make and model
- 19. Derrick/Mast make and model
- 20. H.P. available to draw-works

## SECTION H: Marine Based Activities

This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.

### H-1. Vessel Use

This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.

1. Describe the purpose of vessel operations.
2. List classes and sizes of vessels to be used.
3. Indicate crew size.
4. Indicate operating schedule.
5. Provide a description of route to be traveled (include map).
6. Indicate whether the vessel will call at any ports. If so, where and why?
7. Describe wastes produced or carried onboard including the quantities, storage, treatment, handling and disposal methods for the following:
  - a. Ballast water
  - b. Bilge water
  - c. Deck drainage
  - d. Grey and black water
  - e. Solid waste
  - f. Waste oil
  - g. Hazardous or toxic waste
8. List all applicable regulations concerning management of wastes and discharges of materials into the marine environment
9. Provide detailed Waste Management, Emergency Response and Spill Contingency Plans
10. Does the vessel(s) possess an Arctic Pollution Prevention Certificate? If yes, indicate the date of issue and the name of the classification society.
11. Describe the source of fresh water and potable water
12. Indicate whether ice-breaking will be required, and if so, approximately where and when? Discuss any possible impacts to caribou migration, Inuit harvesting or travel routes, and outline proposed mitigation measures.
13. Indicate whether the operation will be conducted within the Outer Land Fast Ice Zone of the East Baffin Coast. For more information on the Outer Land Fast Ice Zone, please see the Nunavut Land Claims Agreement (NLCA), Articles 1 and 16.
14. Indicate whether Fisheries or Environmental Observers or any other *Qualified Marine Observer* will be onboard during the proposed project activities. If yes, describe their function and responsibilities.
15. Describe all proposed measures for reducing impacts to marine habitat and marine wildlife (including mammals, birds, reptiles, fish, and invertebrates).
16. Describe whether any part of the project will be located outside of the Nunavut Settlement Area and whether any other regulatory requirements must be met (e.g. CEAA).

### H-2. Disposal at Sea

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

17. Provide confirmation you have applied for a *Disposal at Sea* permit with Environment Canada.
18. Provide a justification for the disposal at sea.
19. Describe the substance to be disposed of, including chemical and physical properties.
20. Indicate the location where the disposal is to take place.
21. Describe the frequency of disposals (disposals per day/week or month).
22. Describe the route to be followed during disposal and indicate on a map.
23. Indicate any previous disposal methods and locations.
24. Provide an assessment of the potential effects of the disposal substance on living marine resources.
25. Provide an assessment of the potential of the disposal substance, once disposed of at sea, to cause long-term physical effects.
26. Describe all mitigation measures to be employed to minimize the environmental, health, navigational and aesthetic impacts during loading, transport and disposal.

## **SECTION I: Municipal and Industrial Development**

**This section does not apply to the current proposed program as the HOOD RIVER PROJECT is an exploration program only.**

1. Describe the business type, including public, private, limited, unlimited or other.
2. Describe the activity (e.g. development of quarry, development of hydroelectric facility, bulk fuel storage, power generation with nuclear fuels or hydro, tannery operations, meat processing and packing, etc.).
3. Describe the production process or service provision procedures.
4. Describe the raw materials used in this activity, the storage and transportation methods. If hazardous materials are included in raw materials, products or by-products; include safety regulations methodology.
5. Provide detailed information about the structure and/or building in which the activity will be conducted.
6. List the PPE (personal protective equipment) and tools to be used to protect personal health and safety.
7. Describe the firefighting equipment that are or will be installed.
8. Describe the noise sources, noise level in work area, technical measurements that will be adopted to abate the noise levels and regulatory requirements for noise abatement and noise levels.
9. Describe the type of gaseous emission that will be produced during this activity. Include the allowable thresholds and mitigation measures.
10. Describe odours that the activity might release and include corresponding allowable threshold. Describe mitigation measures if thresholds are exceeded.
11. Describe radiation sources that might be emitted during the activity. Include type and source and include mitigation measures. Also describe preventative measures for human exposure (i.e. PPE).
12. Discuss the employee safety and environment protection training program.
13. If the activity involves a bulk fuel storage facility, include drawings showing the bulk fuel storage facility location in proximity to natural water courses, high water marks, etc.
14. If the activity involves the development of a new quarry or expansion of an existing quarry, complete Section C.

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## 4. DESCRIPTION OF THE EXISTING ENVIRONMENT

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Describe the existing environment, including physical, biological and socioeconomic aspects. Where appropriate, identify local study areas (LSA) and regional study areas (RSA).

Please note that the detail provided in the description of the existing environment should be appropriate for the type of project proposal and its scope.

The following is intended as a guide only.

### Physical Environment

*Please note that a description of the physical environment is intended to cover all components of a project, including roads/trails, marine routes, etc. that are in existence at present time.*

- Proximity to protected areas, including:
  - i. designated environmental areas, including parks;  
**There are no designated environmental areas within or adjacent to the permit areas.**
  - ii. heritage sites;  
**After consulting with the Territorial Archaeologist, the company is aware of one archaeological site within the property boundary. It is located in an area where the company will not be focussing its exploration efforts. The site will not be disrupted.**
  - iii. sensitive areas, including all sensitive marine habitat areas;  
**The property is generally a rocky topographic high. There are no sensitive areas of which the company is aware.**
  - iv. recreational areas;  
**There are no recreational areas within or adjacent to the Project Area.**
  - v. sport and commercial fishing areas;  
**There are no known commercial or sport fishing areas within the Project Area. Sport fishing may occur in the Hood River to the south of the property or in several of the larger lakes within/adjacent to the property (Penthouse, Reno, Bristol, Ulu, etc.).**
  - vi. breeding, spawning and nursery areas;  
**There are no breeding, spawning and nursery area within the project boundary of which the company is aware.**
  - vii. known migration routes of terrestrial and marine species;  
**There are no defined migration routes within the project boundary of which the company is aware. Caribou are present in the area and may wander through. Work will cease when caribou are present. All measures will be taken to avoid, protect wildlife and wildlife habitats;**
  - viii. marine resources;  
**The property is landlocked. There are no marine resources within the project boundary.**
  - ix. areas of natural beauty, cultural or historical history;  
**Like all of Nunavut, the natural beauty is spectacular. After consulting with the Territorial Archaeologist, the company is aware of one archaeological site within the property boundary.**

- x. protected wildlife areas; and

There are no protected wildlife areas within the project boundary of which the company is aware.

- xi. other protected areas.

There are no other protected areas within the project boundary of which the company is aware.

- Eskers and other unique landscapes (e.g. sand hills, marshes, wetlands, floodplains).

A large esker is located immediately south of the Hood Property. The Hood Property covers an area of topographic high. There are no sandhills, marshes or wetlands on the Hood Property. The Frayed Knots River Valley and possibly the Rio Fido River Valley appear to have been glacial outwash valleys/plains.

- Evidence of ground, slope or rock instability, seismicity.

There is no evidence of ground, slope, rock instability or seismicity within the boundary of the Hood River Property of which the company is aware.

- Evidence of thermokarsts.

There is no evidence of the presence of thermokarsts within the boundary of the Hood River Property of which the company is aware.

- Evidence of ice lenses.

There is no evidence of the presence of ice lenses within the boundary of the Hood River Property of which the company is aware.

- Surface and bedrock geology.

The HOODRIVER-001 MEA Property protects the central portion of the Archean-aged High Lake Volcanic Belt (HLVB) in the northern Slave Structural Province. The property has been subjected to greenschist to amphibolite grade regional metamorphism. The northerly-trending supracrustal mafic volcanic and sedimentary rocks in the HLVB are surrounded by granitic plutons and batholiths to the east and west of the property. The sediment and volcanic stratigraphy has been folded as is evident at the adjacent Ulu Deposit and in the northern part of the Hood Property where a south plunging synform has been recognized at the North Fold Nose Area. Within and west of the Hood Property boundary, this sequence has been intruded by the Ulu Leucogranite. The Tenacity Kimberlite Pipe, the only kimberlite known to occur within the High Lake Belt, is located on the Hood River (CO-20-00-03R) Concession. The surface expression of the pipe is approximately 80 metres by 100 metres. Gold, arsenopyrite mineralization, similar to that reported at the adjacent Ulu Project, has been identified on the Hood Property.

- Topography.

On the northern HoodRiver-001 MEA Property, there is about 115 metres of relief in the form of deeply incised linear valleys bounded by steep bluffs. The basalt units form topographic plateaus, elevated over the sediments and granitic rocks. Outcrop density here is typically 50-60%, with the cover consisting of north-trending lakes, grassy swamps, and boulder-strewn glacial drift. Regional drainage is easterly into Bathurst Inlet. Major rivers include James River to the north and the Hood River which is located adjacent to the southern boundary of the concession. Locally, the concession is located within the Rio Fido watershed that includes Penthouse Lake that drains eastward into Frayed Knots River, a tributary of the Hood River. The Hood River valley is incised over 100 metres below the surrounding upland plateau.

- Permafrost (e.g. stability, depth, thickness, continuity, taliks).

**The Hood River Property is located in areas of continuous permafrost reaching depths to a reported 300-500 metres. Only the top 1 to 2 metres thaws during the summer months.**

- Sediment and soil quality.

**Soil development is poor on the Hood Property. Where bedrock is not exposed the properties are covered by glacial till and debris.**

- Hydrology/ limnology (e.g. watershed boundaries, lakes, streams, sediment geochemistry, surface water flow, groundwater flow, flood zones).

**The Hood River Property drains into the Frayed Knots River which drains into the Hood River which subsequently drains east toward Bathurst inlet. Numerous small ponds/lakes dot the surface of the property (Figures 4 & 5 (Section 8)). No flood zones occur within the property boundaries.**

- Tidal processes and bathymetry in the project area (if applicable).

**Not Applicable.**

- Water quality and quantity.

**Water quality on the Hood River MEA Property appears to be abundant and pristine. If the adjacent Ulu Property has had any effect on the water quality, none is evident to the casual observer.**

- Air quality.

**There are no air quality problems/issues on the Hood River Property.**

- Climate conditions and predicted future climate trends.

**The Hood River Property is located in the treeless Arctic within the zone of permafrost. The weather in the property areas is typical of the continental barrenlands which experience cool summers and extremely cold winters. The apparent trend of warming temperatures will have an effect on the area and not restricted to the northern movement of the existing treeline.**

- Noise levels.

**Noise levels on the Hood River Property (and the adjacent Ulu Property) are low.**

- Other physical Valued Ecosystem Components (VEC) as determined through community consultation and/or literature review.

**None are Available.**

## **Biological Environment**

- Vegetation (terrestrial as well as freshwater and marine where applicable).

**Vegetation on the Hood River Property consists primarily of sedges, lichen and moss.**

- Wildlife, including habitat and migration patterns.

**Caribou, arctic wolf, arctic hare, tern, arctic fox, ermine, ground squirrel and grizzly bear have been observed on the Hood Property. Muskoxen were not observed on the property; however, during the past (2004 and 2006) programs in the area, a “resident” herd was noted about 30 kilometres south of the Hood River. Caribou migration potentially may occur near the property; however, the field season generally occurs after the caribou have moved through so this migration has not been noted by company personnel.**

- Birds, including habitat and migration patterns.

**Terns have been the only birds observed on the Hood Property**

- Species of concern as identified by federal or territorial agencies, including any wildlife species listed under the *Species at Risk Act* (SARA), its critical habitat or the residences of individuals of the species,

**According to the government website:**

**([http://www.ec.gc.ca/nature/default.asp?lang=En&n=D8F8F357-1#\\_toc](http://www.ec.gc.ca/nature/default.asp?lang=En&n=D8F8F357-1#_toc))**

**there appear to be no reported species at risk within the project area. Under Canada's Species At Risk Act (SARA) the caribou, wolverine and grizzly bear are listed and classified as "Special Concern Species". Throughout the program, WPC will ensure that all measures will be undertaken to avoid interactions and to protect all wildlife and all wildlife habitat.**

- Aquatic (freshwater and marine) species, including habitat and migration/spawning patterns.

**Most of the larger lakes support fish populations including arctic char, lake trout, grayling. The water also supports bird populations.**

- Other biological Valued Ecosystem Components (VEC) as determined through community consultation and/or literature review.

**None are Available.**

## **Socioeconomic Environment**

- Proximity to communities.

**SEE: Figure 1. (Section 8).**

- Archaeological and culturally significant sites (e.g. pingos, soap stone quarries) in the project (Local Study Area) and adjacent area (Regional Study Area).

**There is one archaeological and/or culturally sites known to exist within the Hood River Property. The email report received from the Sylvie LeBlanc, the Nunavut Territorial Archeologist, is attached to this document (Figure 8 (Section 8)). This known site is not in the area of planned exploration work. Any new potential sites will be reported to the Territorial Archaeologist.**

**No pingo or soap stone occurrences are known to occur within the Hood River Property nor, to the best of the applicants knowledge, are any reported regionally.**

- Palaeontological component of surface and bedrock geology.

**No fossils have been observed in the surface bedrock within the Hood River Property.**

- Land and resource use in the area, including subsistence harvesting, tourism, trapping and guiding operations.

**The land encompassing the Hood and Contwoyto project area is undeveloped.**

- Local and regional traffic patterns.

**The project area is uninhabited. There is no traffic. The property lies under the Canada/US to Europe air traffic routes as contrails from commercial airline jet traffic can commonly be observed overhead.**

- Human Health, broadly defined as a complete state of wellbeing (including physical, social, psychological, and spiritual aspects).

**The project area is uninhabited.**

- Other Valued Socioeconomic Components (VSEC) as determined through community consultation and/or literature review.

**None are Available.**

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## 5. IDENTIFICATION OF IMPACTS AND PROPOSED MITIGATION MEASURES

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1. Please complete the attached Table 1 – Identification of Environmental Impacts, taking into consideration the components/activities and project phase(s) identified in Section 4 of this document. Identify impacts in Table 1 as either positive (P), negative and mitigable (M), negative and non- mitigable (N), or unknown (U).

**Table 1 is completed and attached.**

2. Discuss the impacts identified in the above table.

### Potential Impacts and Mitigation:

The attached potential project / environment interactions matrix (Table 1) outlines activities associated with the project and where they may interact with existing biophysical and social conditions. The project / environmental interactions matrix outlines works related to the camp, exploratory drilling and prospecting and general environmental, social, economic and health components. It is noted where the potential for interaction exists, which subsequently, can be used to determine potential impacts.

### Biophysical:

Impacts on air quality can result from discharge of exhaust from airplanes, helicopters, drilling operations and diesel generator power supply at camp as well as emissions from incineration. Given the remote location and lack of air quality issues that currently exist within the project location, these short duration and small scope activities are not expected to result in any measurable air quality impacts at either the local or regional scale. An Environment Canada approved incinerator will be selected to burn combustible waste. Noise can result from the use of planes, helicopters and drills and to a lesser degree from activities within the camp and at the airstrip that can disturb wildlife. Mitigation is noted in the Vegetation Communities And Wildlife Habitat section, below.

### Soil And Permafrost Quality:

Soil and permafrost quality can be impacted from spills of fuel and other materials, waste discharge and drilling. Preventative measures including storage in Environment Canada approved containers with approved containment requirements in areas where spill clean-up is easy (i.e. on flat areas at runway / camp or on the claim near drill site – at all times, at least 31 metres away from watercourses) and fueling in these areas with diligence will be taken. Drip pans, or other such preventative measures, should be used when re-fuelling equipment on site.

Materials storage will meet the requirements of the federal Environmental Protection Act. Environment Canada recommends secondary containment, such as self-supporting “insta-berms”, also be used when storing barrelled fuel on location. Drums and hoses will be inspected regularly for leaks and pans or absorbent pads will be placed below fuel transfer areas and stationary machinery. A Spill Response Plan (clean-up, removal and reporting) is attached. The discharge of grey water to a sump meets acceptable standards and would be covered with 40 centimetres of native material following abandonment.

The following additional mitigation procedures will be adhered to during drilling:

- Drilling will be undertaken a minimum of 31 metres from any water body.

- Absorbent pads will be placed under areas where fuel, lubricants and other toxic materials could potentially leak. This will greatly assist in localized spill clean up that may have occurred during or following drill operations.
- Drill cuttings will be pumped to a sump (natural depression or temporary dike) a minimum of 31 m from any surface water body from which the water can be allowed to infiltrate to ground; by using a sump, direct flow into a water body is not possible and no additional impacts are created.
- Any fuel or hazardous material will be located a minimum of 31 m distance from any surficial water body.
- All sumps will be backfilled with native surficial material upon completion of drilling and will be contoured to match the existing landscape.
- If artesian flow is encountered, drill holes will be plugged and permanently sealed upon drill hole termination.

#### Surface Water Hydrology:

Surface water hydrology can be disrupted from removal of water for camp use and drilling while surface water quality may be affected by fuel and toxic material spills (including drill slurry), grey and black water disposal. Physical fish habitat (stream beds) could be impacted from nearby drill activity or access (crossings). Water extraction at the camp and drill site and water quality impacts (resulting from fuel or other toxic materials such as drill slurry) can ultimately affect fish populations.

The measures noted under the Soil And Permafrost Quality section above will mitigate for surface water quality impacts from spills. Sediment and drill fluids are also issues for surface water. Activities that may result in sedimentation should be avoided or sediment control measures put in place to mitigate downstream impacts. Any grey water discharge into a sump will be located a minimum distance of 31 metres from all bodies of water.

Water use at the camp will be drawn under Elgin Mining's existing permit and will be taken from West Lake (Figure 7 (Section 8)). Extraction volumes to sustain 15 to 25 people will be approximately 1 to 1.5 m<sup>3</sup> per day, which will not impact aquatic habitat in the large lake. Drilling could use up to 45.8 m<sup>3</sup> per day and will be drawn from and returned to adjacent creeks/ponds/lakes/rivers. The water intakes will be screened as per DFO requirements to prevent fish kill at the pumps. Disturbance to the lake (or any adjacent stream) bed or banks should be minimized by placing temporary pump placement platforms for clean, easy; in addition a sump – of sufficient volume to contain the runoff drill water will be excavated. These measures will ultimately mitigate for impacts on fish. The water level of any source body of water will never be drawn down.

#### Vegetation Communities And Wildlife Habitat:

Vegetation communities and wildlife habitat can be disturbed by clearing/grading at the camp and drill sites. During drilling, any soil removed will be side-cast and the disturbed area recovered at the completion of the drill hole. Any topsoil (if present) will also be stored and covered at the camp site for reuse later during reclamation at abandonment.

Wildlife can be displaced through loss of habitat, disturbed by noise (helicopter, plane, generators, drilling) or human interaction. Habitat loss can result in displacement of animals. Disturbance can cause stress-induced health problems and mortality. A secure bear fence around the main camp will assist to

minimize human-wildlife interactions. Other mitigation procedures will include the following:

- disturbance of any raptor nests (particularly late May to mid-Aug when active) will be avoided so that the animals are not stressed to abandon the nest. This also would apply to bear dens and wolf dens.
- helicopter over flights will be limited to a minimum altitude of 300 metres, whenever possible;
- helicopter flights over areas of known raptor nests will be avoided, especially during active reproductive periods. This will also apply to waterfowl and shorebird staging areas during critical seasons and near large mammals;
- drill activities and associated work will cease if caribou cows appear nearby;
- wildlife sightings will be recorded and this information will be passed on to the rest of the crews;
- proper storage of hazardous materials will be ensured to avoid exposure to wildlife;
- all personnel will be aware of and will follow wildlife deterrence techniques (including proper storage and disposal of food) to reduce the possibility of attracting wildlife to the camp and drill areas;
- all personnel will have bear safety training and although not normally spotted as far south as the project area, will be aware of the penalties for shooting polar bears, even in self defense.

### 3. Discuss potential socioeconomic impacts, including human health.

#### Socio-Economic Impacts:

The use of local services for transportation and camp will provide economic benefits. Access to, and re-supply of, the site will be via Yellowknife. Notable risks to human health and safety exist from numerous sources while working in remote areas, the least of which might include:

- accidents during helicopter use
- interactions with wildlife
- injury while working with power
- machinery (the drill rig)
- hazardous materials,
- slipping on lichen-covered rocks,
- falls in general
- drowning
- rock chip injuries
- food poisoning
- hypothermia
- disorientation (lost)
- water-borne illness
- infection (to poorly treated wounds)

The site safety program, including emergency response, will aim to minimize accidents and injuries. Water supply will meet the requirements of the Public Health Act Water Supply Regulations. The kitchen facilities will be the domain of the cook and will be kept clean and sanitary at all times. Food storage and preparation techniques will be to acceptable standards.

With proper mitigation, the project should not affect land and water use, traditional use or cultural resources. All measures should be taken to avoid

defense kills of bears. A clean, cordoned off camp site and awareness during traverses will minimize human-wildlife interactions. Two way radios and/or satellite phones will be carried on traverse.

4. Discuss potential for transboundary effects related to the project.  
There are no trans-boundary effects related to this project as the project area is located entirely within Nunavut and is some distance from any boundary.
5. Identify any potentially adverse effects of the project proposal on species listed under the *Species at Risk Act (SARA)* and their critical habitats or residences, what measures will be taken to avoid or lessen those effects and how the effects will be monitored.

According to the government website:

<http://www.ec.gc.ca/nature/default.asp?lang=En&n=D8F8F357-1# toc>

there appear to be no reported species at risk within the project area. Under Canada's Species At Risk Act (SARA) the caribou, wolverine and grizzly bear are listed and classified as "Special Concern Species". Throughout the program, WPC will ensure that all measures will be undertaken to avoid interactions and to protect all wildlife and all wildlife habitat.

6. Discuss proposed measures to mitigate all identified negative impacts.  
In addition to the mitigation of impacts discussed above, all mitigation of impact will be accomplished by the following approaches: avoidance, minimization, barriers, procedures, and rehabilitation. Possible mitigation procedures are listed below:
  - Disturbances to permafrost will be mitigated by raising the floors of the tents off the ground, and keeping the sump area and incinerator area small and by raising the incinerator above the ground level.
  - Disturbance to soil and vegetation will be minimized by using walkways / pathways between the tents in the camp.
  - The impact of helicopter and airplane noise and presence on wildlife and people will be mitigated by avoiding wildlife during flights and avoiding low flying.
  - The presence of wildlife will be carefully monitored to ensure minimal disturbance.
  - Water quality will be protected from spills and drilling by use of protective procedures and containments.
  - Grey water will be treated through sumps and monitored to ensure containment.
  - Sewage will preferably be incinerated otherwise it will be treated daily with lime and subsequently buried.
  - Water, air and animals will be protected as no garbage will remain onsite. Arrangements have been made with the City of Yellowknife whereby the city will accept backhauled garbage and recycle material at the city's waste management facility (Figure 10 (Section 8)) during the duration of the proposed program.
  - No new campsite will be constructed as the Company has reached an agreement with Elgin Mining to use the adjacent, fully permitted Ulu Camp. The Penthouse Lake Tent will be demobilized and the land remediated when no longer used.
  - No fuel, drill cuttings, chemicals, wastes or sediment will be deposited into any water body as per the Fisheries Act, Section 36(3).
  - Sumps, including those created for the disposal of drill cuttings will be located 31 metres above the high water mark of any water body in such a manner as to prevent the contents from entering any water body frequented by fish.

- Drilling additives or mud will 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.
- Land based drilling will not occur within 31 m of the high water mark of any water body.
- In winter, materials will not be stored on the surface ice of lakes or streams. Materials on the ice surface must be for immediate use.
- If an artesian flow is encountered during drilling, the drill hole will be immediately plugged and permanently sealed.

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## 6. CUMULATIVE EFFECTS

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A cumulative impact (or effect) can be defined as the impact on the environment that results from the incremental impact of the action when added to other past, present and reasonably foreseeable future actions. Cumulative impacts can also result from individually minor but collectively significant actions taking place over a period of time.

Discuss how the effects of this project interact with the effects of relevant past, present and reasonably foreseeable projects in a regional context.

**Mineral exploration programs have been undertaken within the area for many years. High Lake, Goose Lake, the Lupin gold mine and the former Jericho diamond mine have and in many cases, continue to provide socio-economic benefits to people living in the northern Slave Province area. In the immediate Hood River Project Area, the adjacent Ulu Gold Property has outlined significant gold reserves and at some point will continue toward a production decision which will greatly add to the local infrastructure and will also have a positive effect on the production of additional local jobs.**

**In the past, during the Ulu exploration phase, the Yellowknife to Jericho ice road was for a short period of time, extended north to the Ulu site. In the future this road could be reactivated. MMG is currently studying the possibility of opening an all weather road across the Slave Province from Yellowknife to a proposed port on the north coast. If/when this comes to fruition, it will have a huge benefit on the economy of the area by bringing more mineral explorers into this very productive area.**

**Fortunately, use of the winter road, although an intrusion, will be used solely in the winter, prior to most animals and birds becoming active in the area. An all season road would change all this. Along with progress come the negative effects of man's intrusion into the local environment. In the summer, noise, pollution, human interaction potentially all could have negative effects on the total environment. Normal patterns of birds and wildlife will have to be monitored so that they are not negatively influenced.**

**Each WPC drill site will be restored following drilling. This will include clean up of any fuel/oil spills, removal of all garbage, equipment and restoration of the sump area (any temporary dikes/dams/barriers will be removed and the sump will be covered with native soil).**

**At the end of each field season, the camp site will be secured and all waste material will be incinerated / removed. When the Penthouse Lake tent site is dismantled annually at the end of each yearly proposed exploration program, all materials will be removed from site and backhauled to Ulu/Yellowknife (for re-use or appropriate disposal). All disturbed areas (including grey water sump) will be covered and graded.**

**If the proposed exploration program is terminated after 2018/19, there will be no evidence that the program was undertaken – except for any visible drill hole collars as no camp on the HOODRIVER-001 Property will be required. Conversely, if the program is ultimately successful and a viable ore body is identified and continues to be developed, this asset will generate taxes and employment for the people of Nunavut.**

**Currently, the HOODRIVER-001 MEA Property is in the very initial stages of a grassroots exploration program. Any effects of this proposed program on the local/regional environment will be both negligible and mitigable. Any cumulative effects at this stage will also be minor or negligible.**

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## 7. SUPPORTING DOCUMENTS

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Where relevant, provide the following supporting documents:

**All required/relevant supporting documents/plans are attached.**

- Abandonment and Decommissioning Plan  
**SEE: WPC Abandonment and Decommissioning Plan (Attached).**
- Existing site photos with descriptions  
**Currently, no site photos exist.**
- Emergency Response Plan  
**SEE: WPC Emergency Response Plan (Attached).**
- Comprehensive Spill Prevention/Plan (must consider hazardous waste and fuel handling, storage, disposal, spill prevention measures, staff training and emergency contacts)  
**SEE: WPC Fuel Spill Contingency Plan (Attached).**
- Waste Management Plan/Program  
**SEE: WPC Waste Management Plan (Attached).**
- Monitoring and Management Plans (e.g. water quality, air pollution, noise control and wildlife protection etc.)  
**SEE: WPC Monitoring and Management Plan (Attached).**
- If project activities are located within Caribou Protection Areas or Schedule 1 Species at Risk known locations, please provide a Wildlife Mitigation and Monitoring Plan  
**SEE: WPC Wildlife Mitigation and Monitoring Plan (Attached).**

In addition, for Project Type 9 (Site Cleanup/Remediation), please provide the following additional supporting documents:

- Remediation Plan including cleanup criteria and how the criteria were derived.  
**SEE: WPC Abandonment and Decommissioning Plan (Attached).**
- Human Health Risk Assessment of the contaminants at the site.  
**As this proposed program is exploration only, human health risk will be minimal as there will be no contaminants onsite.**

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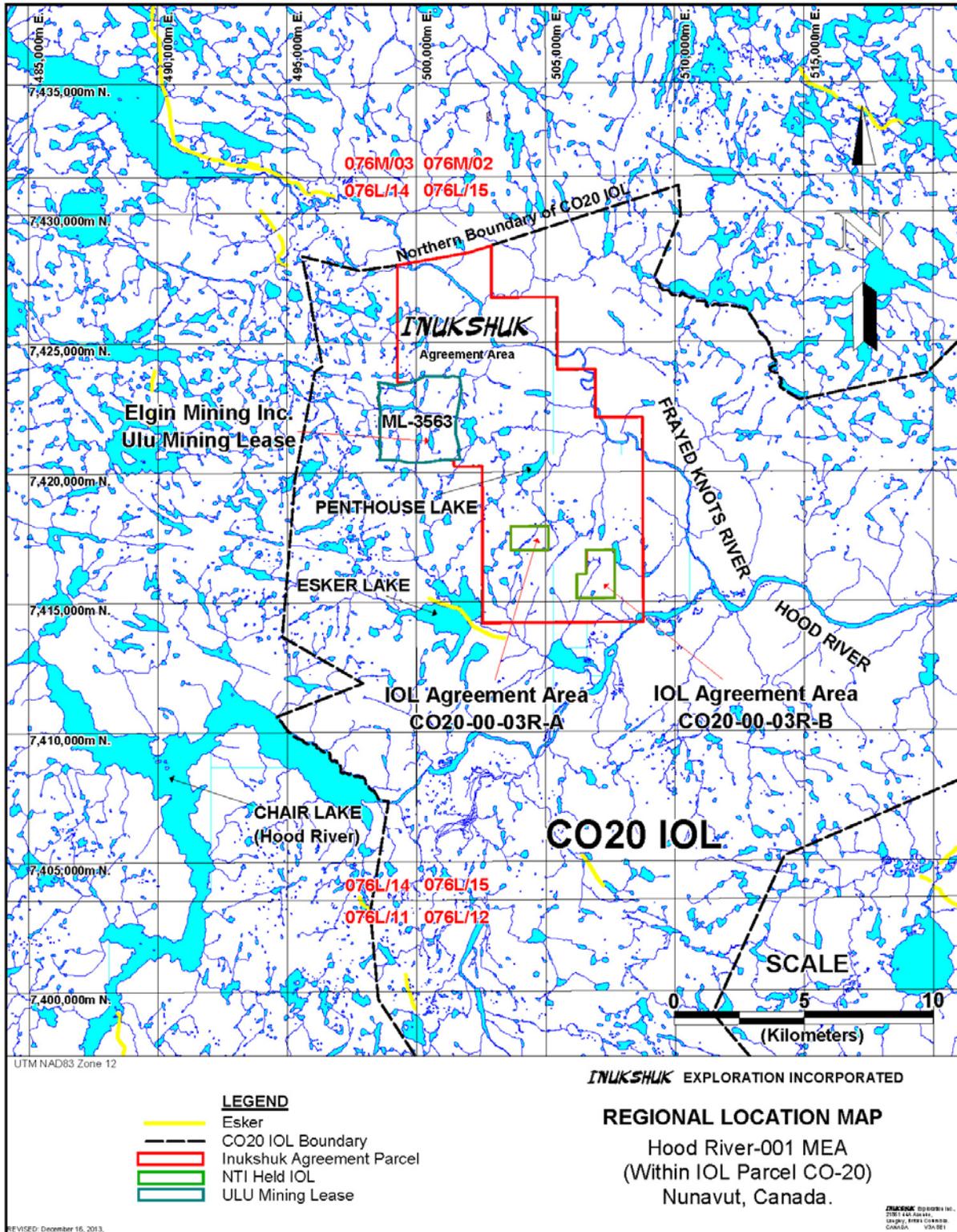
## 8. SUPPORTING FIGURES

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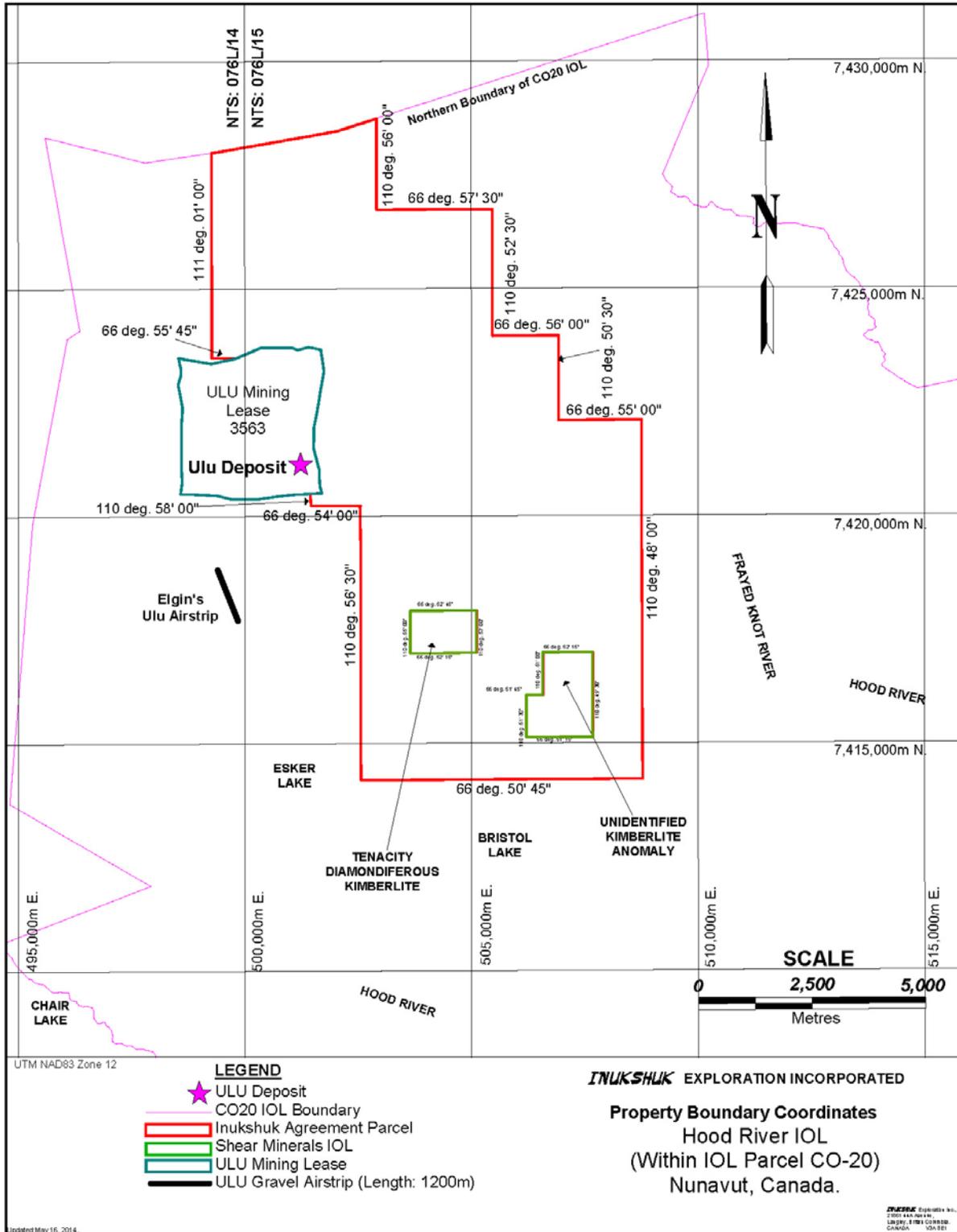
Figures 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 follow.



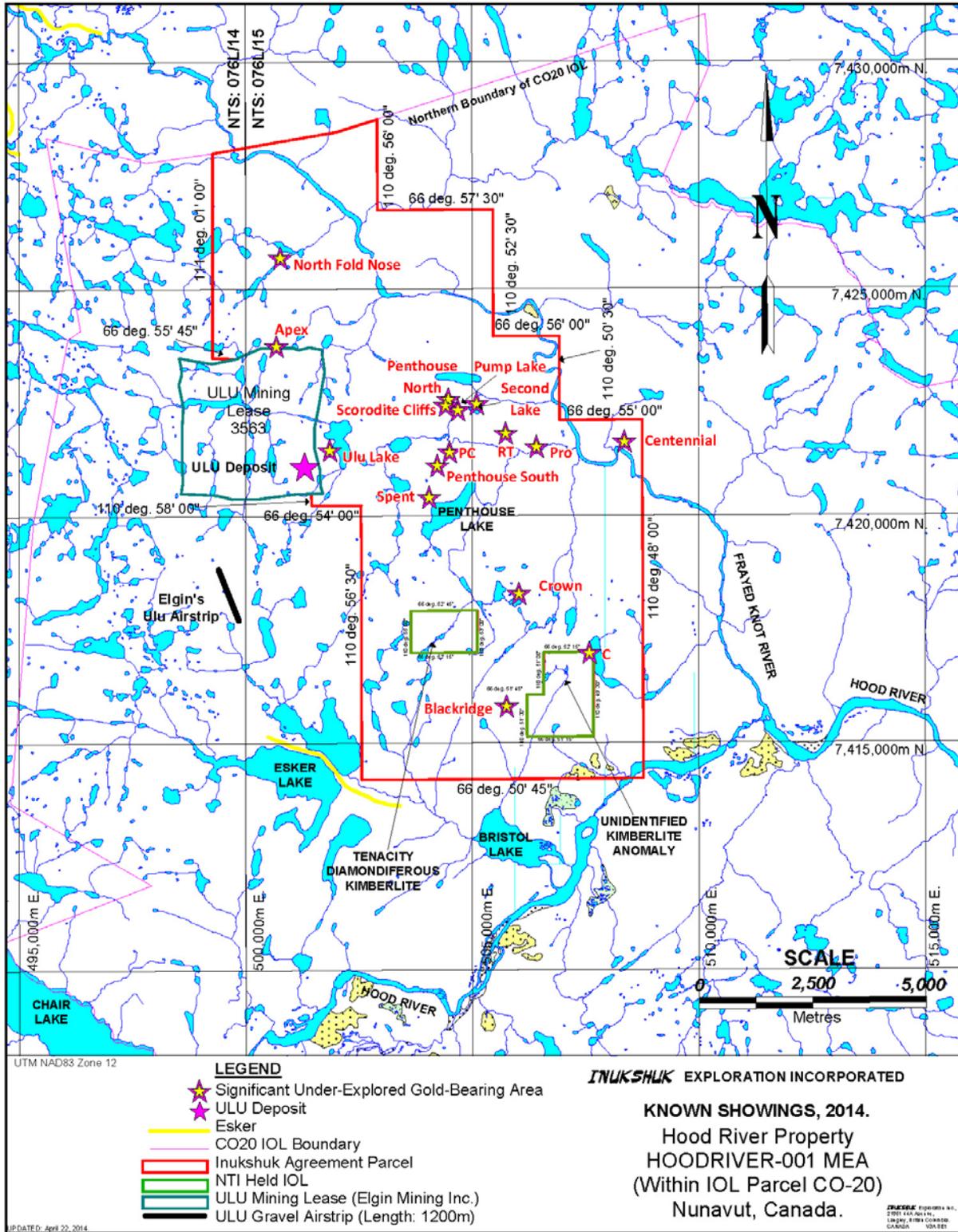
**FIGURE 1.** Regional location of the HOODRIVER-001 Property and project area. Distance to regional communities from the Hood River Property are noted on the flight lines.



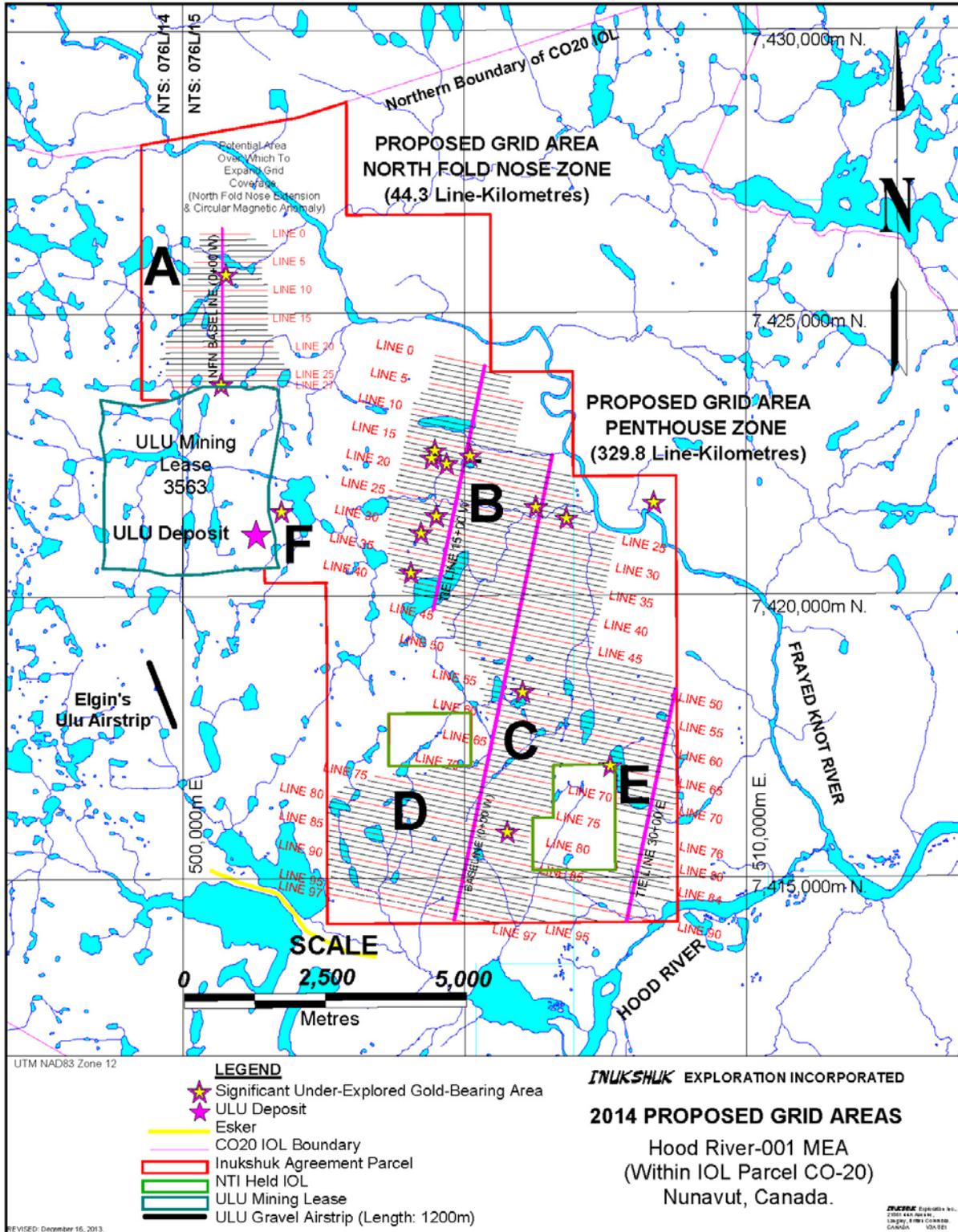
**FIGURE 2.** Regional location of the HOODRIVER-001 MEA Property within the CO20 IOL package, Nunavut. The property lies immediately east of the Ulu Deposit (ML#3563), immediately north of the Hood River and south of the James River. The property lies within NTS Sheet 076L/14 and 15.



**FIGURE 3.** The bounding coordinates that define the HOODRIVER-001 MEA are shown. Inukshuk has no title to the Ulu Mining Lease (ML#3563) or to the two internal MEA Properties (CO20-00-03R-A and CO20-00-03R-B)



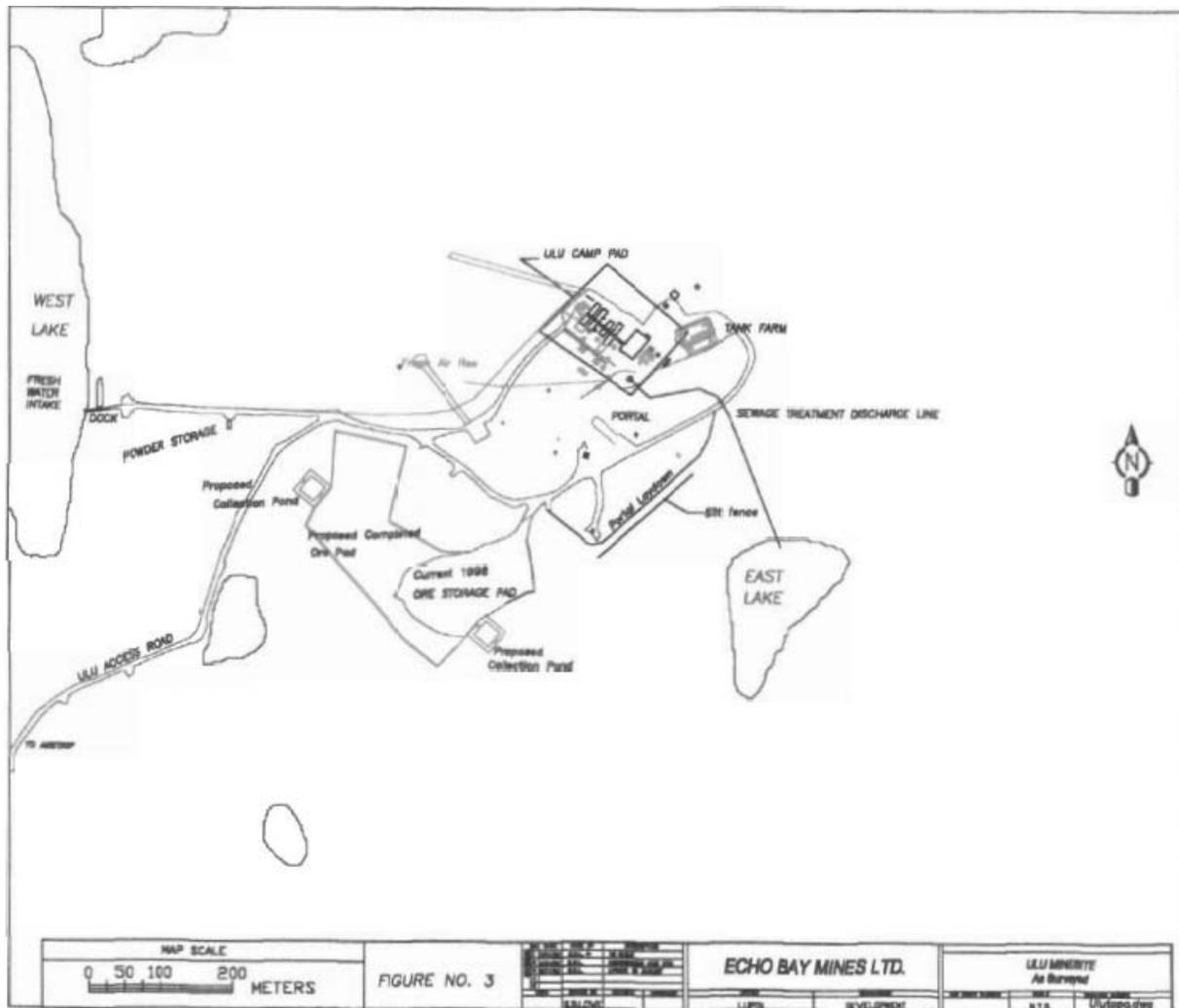
**FIGURE 4.** Known Showings and current potential focal areas of work within the HOODRIVER-001 MEA Property.



**FIGURE 5.** Potential grid locations and areas geophysical surveys within the HOODRIVER-001 MEA Property.



**FIGURE 6.** Aerial photo of the Ulu Camp (looking south). The camp will be utilized by WPC crews during the duration of the multi-year exploration program (photo from the June 2011 NI43-101 Report by Graham and Wahl). No other photos are available.



**FIGURE 7.** Map of the layout of the Ulu Campsite. This site will be utilized by WPC crew members as a base camp for the duration of the proposed multi-year HOODRIVER-001 MEA Project. The camp is fully permitted by Elgin Mining Incorporated and is fully operational. (From: Wolfden Resources Inc. 2005 to 2006 Exploration and Development Project, Ulu, Nunavut. Report submitted to KIA)

**Bruce E. Goad, P.Geo.**

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**From:** LeBlanc, Sylvie [SLeBlanc1@GOV.NU.CA]  
**Sent:** March-25-14 7:26 AM  
**To:** 'Bruce E. Goad, P.Geo.'  
**Subject:** RE: Permitting  
**Attachments:** Map Property.pdf; Site Reporting Form.doc

Dear Bruce:

Thank you for contacting the Department of Culture and Heritage regarding your exploration program in the Hood River/Ulu area. Based on your description of the proposed activities for 2014 you will not be requiring a permit from our department.

A database search indicates that there is one archaeological site recorded in the North Fold Nose Zone to the east of Area A. See location of site (red triangle) on attached map. No other sites are reported within the limits of the property boundaries. This however, does not preclude the presence of unidentified archaeological sites. Note that there are numerous archaeological sites recorded outside/around the property limits.

Recommendations:

The department of Culture and Heritage recommends that no activities be conducted in the vicinity (50 m buffer zone) of the MfNu-1 archaeological site. If archaeological sites or features are encountered during the exploration program, activities should immediately be interrupted and moved away from this location. Each site encountered needs to be recorded and reported to our office using the attached Site Reporting Form. Photographs and a map indicating location of site should be provided as well.

Best regards,

Sylvie

Sylvie LeBlanc Ph D  
Territorial Archaeologist  
Department of Culture and Heritage  
Government of Nunavut  
P.O. Box 310  
Igloolik, Nunavut X0A 0L0  
Tel: (867) 934-2040  
Fax: (867) 934-2047

**FIGURE 8.** Response received from the Territorial Archaeologist for a data search of all known archaeological sites within the HOODRIVER-001 MEA Property.

**From:** [Christopher Tickner](#)  
**To:** [Bruce F. Goad, P. Geo.](#)  
**Cc:** [Brian Aulukark](#); [Phyllis Beaulieu](#)  
**Subject:** RE: Confirmation letter required as per NWB application.  
**Date:** May-13-14 9:32:18 AM  
**Attachments:** [CROP Regional Location Jan 21 2014.pdf](#)  
[CROP Property Coordinates.pdf](#)

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Good morning Mr. Goad,

**RE: Ulu/Hood River Mining Lease (Inukshuk)**

Thank you for your email(s).

The Nunavut Planning Commission (NPC) has reviewed the attached documents and the information contained in the email chain below has determined that the project proposal as described is located outside the boundaries of the two approved land use plans currently administered by the NPC.

Please ensure that any change in scope of the proposed project is forwarded to the NPC so as a determination can be made as to whether a conformity review is required.

The Nunavut Water Board (NWB) have been copied with this email for their information.

Please contact me should you have any questions.

Sincerely,

Christopher Tickner MCIP, RPP  
Senior Planner  
Nunavut Planning Commission  
P.O. Box 2101 Cambridge Bay, NU X0B 0C0  
Phone: (867) 983-4634  
Fax: (867) 983-4626  
Website: [www.nunavut.ca](http://www.nunavut.ca)

**FIGURE 9.** Response received from the Nunavut Planning Board for a clearance request for the proposed WPC Project.



CITY OF YELLOWKNIFE

May 13, 2014

Inukshuk Exploration INC.  
21861 44-A Avenue  
Langley, British Columbia  
V3A 8E1  
(604) 533-2255  
Attention: Mr. Goad

Dear Bruce E. Goad,

**RE: Disposal of Camp Waste from Inukshuk Exploration INC.**

I am pleased to inform you that the City of Yellowknife has approved Inukshuk Exploration INC. request for use of the City of Yellowknife Landfill (Solid Waste Facility). Below is a list of rules that must be adhered to during the term of May 2014 – May 2018.

1. A maximum of 450kgs of non-hazardous waste/recyclables will be accepted each year.
2. No hazardous waste will be accepted at the Solid Waste Facility.
3. Waste must be separated prior to acceptance as per By-law No. 4376. Steel, wood, batteries, tires and appliances must be separate from normal household type waste.
4. All waste will be charged at "outside of City boundaries" rates as per By-law No. 4436.

If all rules are not met during the approved term the City of Yellowknife reserves the right to abolish the agreement with Inukshuk Exploration INC. at any time. Please feel free to contact the Superintendent of the Solid Waste Facility if you any further questions or concerns.

Sincerely,

Peter Houweling,  
Superintendent, Solid Waste Facility  
City of Yellowknife  
(867)445-1044

cc: Chris Greencorn, P.Eng., Director, Public Works & Engineering  
Wendy Alexander, P.Eng., Manager, Public Works & Engineering

Docs-#390981-v1

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WWW.YELLOWKNIFE.CA | YELLOWKNIFE CITY HALL | 4807 52ND STREET | BOX 580 | YELLOWKNIFE, NT | X1A 2N4 | (867) 920-5600

**FIGURE 10.** Response received from the City of Yellowknife for permission allowing WPC to backhaul Ulu Camp garbage to the city's landfill/recycling facilities.

