



WATER USE INSPECTION REPORT

Date: July 22, 2009	Licensee Rep. (Name/Title): Sam Kapolak (Kingamiut Ltd)
Licensee: Bathurst Inlet Lodge	Licence No.:     Unlicensed

WATER SUPPLY

Source(s): Pump positioned near location where Hydro Creek runs into Burnside Delta	Quantity used: Not measured or recorded
Owner:/Operator: Boyd Warner (Owner)	

Indicate: **A** - Acceptable   **U** - Unacceptable   **NA** - Not Applicable   **NI** - Not Inspected

Intake Facilities: U	Storage Structure: U	Treatment Systems: U	Chemical Storage: Bottles of Bleach
Flow Meas. Device: U	Conveyance Lines: A	Pumping Stations: U	Screen : None in place

**Comments:** Water intake pump is set up close to where Hydro creek runs into Burnside Delta; then pumped via PVC-type hoses across the Delta area, and into the water intake storage tanks (near the main Lodge building). A jerry can of fuel was left beside the pump on the sand, only several feet away from the water and has no secondary containment.

Lodge still has provided no further information on storage tanks or their respective volumes (as per last year’s inspection) and chlorine bleach is added occasionally (not recorded) and measured crudely with no verification or testing that confirms potability (no measuring device was apparent on visual inspection). No signage was noted within shower/laundry hut or in main Lodge indicating non-potable water from taps.

WASTE DISPOSAL

**Sewage:** No sewage treatment system–honey bags are transported in buckets to area known as “Garbage Island” and buried in pits in the sand near shore by both Lodge and camp residents.

Natural Water Body: yes	Continuous Discharge (land or water): NA	
Seasonal Discharge: NA	Wetlands Treatment: NA	Trench: NA

Indicate: **A** - Acceptable   **U** - Unacceptable   **NA** - Not Applicable   **NI** - Not Inspected

Discharge Quality: NA	Decant Structure: NA	Erosion: Yes- debris exposed in many areas
Discharge Meas. Device: No	Dyke Inspection: NA	Seepages: U
Dams, Dykes: NA	Freeboard: NA	Spills: U
Construction: NA	O&M Plan: No	A&R Plan: No
Discharge: NA	Effluent Discharge Rate: NA	

**Solid Waste:** Transported to Garbage Island

Landfill: NA	Burn & Landfill: Garbage burned in sand pits; debris covered over and buried in sand	Other: Old fuel barrels still stacked near float plane dock (were previously removed from Garbage Island sometime before 2008 inspection occurred).
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**Comments:** Garbage Island has been used historically (by both the Lodge and seasonal residents) as a dump site. Unknown buried and half-buried debris is located everywhere on the “Island”. Multiple pits (new and old) are located well within the 30 metre high water mark –this includes honey bag pits and garbage burn pits.

- Several locations on the island where barrels can be seen partially buried
- Multiple areas where substrate is stained/contaminated with unknown hydrocarbons and/or chemicals.
- Considerable debris and garbage stored adjacent to the airstrip (some related to mineral exploration activities) and float plane dock (namely hundreds of old fuel barrels).
- Washouts/erosion has been occurring: honey bags and various garbage and debris are found half buried and scattered along shore area.
- Possibility of biohazardous and other types of leachates occurring and affecting water quality, both from environmental and health perspective (i.e.: same boats may be used for transporting honey bags/buckets to Garbage Island and for refuelling/repositioning water intake pump), especially as no potability testing is done on drinking water.

FUEL STORAGE:

**Waste Oil Storage:** No area specifically designated for this purpose; no information provided by Lodge on disposal.

Indicate: **A** - Acceptable   **U** - Unacceptable   **NA** - Not Applicable   **NI** - Not Inspected

Berms & Liners: NA	Water within Berms: NA	Evidence of Leaks: NA
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**Tank Farm/Storage: Owner/Operator:** GN (Owner)/Lodge (Operator) –to be confirmed  
Indicate: **A** - Acceptable    **U** - Unacceptable    **NA** - Not Applicable    **NI** - Not Inspected

<b>Berms &amp; Liners:</b> None	<b>Water within Berms:</b> U	<b>Evidence of Leaks:</b> U
<b>Drainage Pipes:</b> NA	<b>Pump Station &amp; Catchments Berm:</b> U	
<b>Pipeline Condition:</b> NA	<b>Condition of Tanks:</b> U –Tanks are singe-walled, no secondary containment and not well maintained	

**Comments:** Overall poor fuel management and handling practices; lack of secondary containment, spill cleanup and reporting, resulting in direct discharge of contaminants to the environment.

- Lack of adequate operator training and support, operations and maintenance manuals. If fuel tanks are owned by GN (Government of Nunavut), more accountability for their operation is required.
- Water and debris have accumulated in drip tray under white fuel tank valve connection point.
- Unconfirmed use/status of older silver fuel tank (no cap on valve connection: piece of tarp tied onto it).
- Many fuel drums on site (from various sources) are re-used to store fuel for the Lodge generator and for cabin/building heating fuel.
- Refilling activities occur without use of secondary containment: fuel stains on ground near generator shack and where fuel drums are re-filled and stored nearby. Lack of secondary containment and fuel spill cleanup.

Generator shack area: one berm has been placed under one generator unit; other units remain as before. There is still the issue of contaminated substrate within the generator shack building; clean up, as well as more preventative measures are needed.

**Other fuel storage areas:**

There are various fuel cache sites in multiple areas around the Lodge, stored by multiple operators such as Rockgate/Northrock Exploration and Air Tindi: near the airstrip, fuel tank area and float plane dock area. No secondary containment was observed for any of these areas.

Airstrip site: Over 70 full drums of fuel labelled for Rockgate/Northrock, as well as empty drums and exploration/drill program materials and debris. Small fuel cache labelled “ATL” (Air Tindi) and various machinery, debris, drums (including a leaking drum), batteries and garbage.

Float plane area: There are several hundred (or more) fuel drums (those accessible on perimeter seem empty) and several hundred full/partially full fuel drums and other fuel containers, all stored within 30 metres of the high water mark near the float plane dock.

Current fuel handling and storage on site are unacceptable. Owner is encouraged to review and develop responsible fuel handling practices, spill prevention and contingency practices –it should be noted that a satisfactory spill response/prevention plan is a requirement for a water licence.

**SURVEILLANCE NETWORK PROGRAM (SNP)**

<b>Samples Collected</b>	<b>Owner /Operator:</b> No		
3	<b>INAC:</b> Sample from shore at Garbage Island; Sample from shore at float plane dock; BTEX sample from puddle water downhill of fuel barrel storage (near float dock).		
<b>Signs Posted:</b> No		<b>SNP:</b> No	<b>Warning:</b> No
<b>Records &amp; Reporting:</b> None			
<b>Geotechnical Inspection:</b> NA			

**Non-Compliance of Act or Licence:** The Licensee is not yet operating under a valid Water Licence. Major compliance issues related to disposal of garbage and sewage, as well as fuel storage and handling practices.

Health issues with lack of proper drinking water treatment, testing and documentation. This includes recording water usage and signage indicating drinking water safety and warning signs indicating raw water source for “potable” water.

Lack of appropriate training and protocol for dealing with spills and contaminated soils/substrate.

Lack of protocols and methods for dealing with various products (hydrocarbons, lubricants, wastes, etc) left on site as a result of mineral exploration activities based out of Lodge facilities.

M. Joy

Inspector’s Name

//Original signed by//

Inspector’s Signature