



WATER USE INSPECTION REPORT

Date: July 12, 2011	Licensee Rep. (Name/Title): Jill Turk/Angela Holzapfel
Licensee: Newmont/Hope Bay Mining Inc.	Licence No.: 2AM-DOH0712

WATER SUPPLY

Source(s): Doris Lake	Quantity used:
Owner:/Operator: Same as above	

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

Intake Facilities: NI	Storage Structure: NI	Treatment Systems: NI	Chemical Storage: NI
Flow Meas. Device: NI	Conveyance Lines: NI	Pumping Stations: NI	Screen : NI

**Comments:** Raw water is pumped from Doris Lake via pump station and stored in tanks at the main site. The water is treated by filter, then using ozone and UV before it is supplied to the camp. The water supply pump house and storage container could not be inspected. The doors were locked and at the time of the inspection could not find anyone to open these doors to gain access. There were no major issues in previous inspection, but these areas will be a priority during the next inspection.

WASTE DISPOSAL

**Sewage:**   **Sewage Treatment System (Prim./Sec/Ter.): Sewage Treatment Plant**

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

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

Discharge Quality: NI	Decant Structure: A	Erosion:
Discharge Meas. Device: A	Dyke Inspection: NI	Seepages: NA
Dams, Dykes:	Freeboard: NA	Spills: NA
Construction:	O&M Plan: A	A&R Plan: A
Discharge: A	Effluent Discharge Rate: 25-29 m <sup>3</sup> daily	

**Comments.** The sewage treatment plant seemed to be working fine at the time of the inspection. Solids are removed, pressed and incinerated and wastewater is treated with UV before being discharged. On average approximately 25-29 m<sup>3</sup> of wastewater is discharged daily and one sludge press (approx. 0.11 m<sup>3</sup>) is removed and incinerated. Volumes of effluent discharge are recorded and were available upon the request of the inspector.

**Solid Waste:**

**Owner/Operator:**

Landfill:	Burn & Landfill:	Other: Incinerator
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**Comments:** The incinerator was working properly and is monitored closely by the person in charge. All combustibles and general garbage (1200 lbs per day) is burned in the incinerator generating approximately 50 lbs of ash per day. KBL out of Yellowknife is responsible for disposing of the ash.

**Hazardous Wastes:**

Since January 2011 a total of 433,289 lbs of hazardous wastes have been shipped out for disposal. Good sorting practises and record keeping of hazardous wastes, all data is recorded electronically and available during the inspection.

FUEL STORAGE:

**Waste Oil Storage:**

**Owner/Operator:**

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

Berms & Liners: A	Water within Berms:   U	Evidence of Leaks: U
Drainage Pipes: A	Pump Station & Catchments Berm:	
Pipeline Condition: A	Condition of Tanks: A	

**Comments:** There are 5 new tanks in the fuel storage and containment area near the main site. Another three tanks (5 million Litres each) are being constructed near Roberts Bay. The five million litre tank at Roberts Bay currently used is approximately half full and is contained in a bermed area. This bermed area has a considerable amount of water and will have to be removed or discharged if it meets the discharge water quality guidelines (During the inspection the water contained in the berm was high in TSS). Newmont was requesting to have this water used as dust suppressant if it meets the discharge guidelines. The fuel tanker Primula is still in

Roberts Bay and contains eleven million litres that will be off-loaded before freeze up.

Jet A1 drums stored near the helipad are in secondary containment however, one wall of the containment has been taken down to bring fuels in and out of the containment area. These walls should be put in the upright position in order for the secondary containment to work the way it is designed to do. Also, there were fuel drums outside of the secondary containment that should be relocated inside of the secondary containment. Water should be removed from the fuel tank berm outside of the helipad office.

Waste oil from the site is stored in the waste management storage facility where it is separated from other hazardous wastes. The waste oil is used in the waste oil burner to heat the waste management building. Other materials (glycols, acids etc) are stored or packaged and shipped out. The facility seems to be well organized and disposing off waste appropriately. Waste oil stored in cubes near Roberts Bay is stored in secondary containment however; the walls of the insta-berms should be fixed and put upright in order for it to work properly.

There are numerous minor oil/fuel stains around the entire site which should be cleaned up as soon as possible.

Swick contractors

- Insta-berm for the fuel tank still not installed properly and there is water in both berms.

McCaw North

- Pails full of waste oil should be covered in the maintenance shop or relocated to the waste oil storage area.
- Small spills outside of the maintenance shop should be cleaned up and contaminated soil disposed off appropriately.

**SURVEILLANCE NETWORK PROGRAM (SNP)**

Samples Collected		Owner /Operator:	
		INAC:.ST-7 (Raw Water Intake)	
Signs Posted	SNP: YES		Warning:
Records & Reporting:			
Geotechnical Inspection:			

**Non-Compliance of Act or Licence:**

- Water contained in all fuel berms should be removed as soon as possible and disposed off accordingly.
- Insta-berms used for secondary containment should be regularly checked and repairs made as necessary.
- Minor spills around the entire site should be cleaned up as soon as possible and contaminated soil disposed of appropriately.
- All drummed fuel should have secondary containment and any drums outside should be relocated inside of the containment area.
- All other concerns and recommendations made in this report should be addressed in a timely fashion.

Ian Rumbolt

Inspector’s Name

Sent by E-mail

Inspector’s Signature