



INDUSTRIAL WATER LICENCE INSPECTION REPORT

Date: 25 April 2014	Licensee Rep. (Name/Title): Cheryl Wray
Licensee: Sabina	Licence No.: 2BE-GOO1015

Site was attended by Inspectors Eva Paul, Justin Hack, and Atuat Shouldice. Goose Camp has only been open for a couple of weeks this season and there was much more snow than usual in camp this winter, so staff are still working to dig everything out. Drilling began on April 21<sup>st</sup> and there are approximately 60 personnel in camp. Exploration and engineering drilling are anticipated to continue into June.

WATER SUPPLY

Source(s): Goose Lake	Quantity used: 43 m <sup>3</sup> /drill/day, ~5.5 m <sup>3</sup> /day camp
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Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

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

Comments: Water usage is metered in camp and recorded manually. These numbers are transcribed into tracking sheets. Records were found to be up to date. Water for the drills is being pumped from the Goose Neck with two pumps, both of which are metered at the pump. The pumps and fuel are pulled as far on-land as possible without compromising the pumping efficiency.

WASTE DISPOSAL

SEWAGE: Sewage Treatment System (Prim./Sec/Ter.):

- ☐ Natural Water Body
- ☐ Continuous Discharge (land or water)
- ☒ Incineration
- ☐ Wetlands Treatment
- ☐ Seasonal Discharge
- ☐ Pit-privy/outhouse

SOLID WASTE:

- ☐ Landfill
- ☒ Open Burn
- ☒ Backhaul
- ☐ Burn & Landfill
- ☒ Incinerate
- ☐ Other: \_\_\_\_\_

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

Waste Management Area: A	Waste Segregation Practices: A	Incinerator Efficiency: A
Signage: A	Records: A	

Comments: Waste sorting at source is implemented in camp and is effective for the most part. Garbage cans in the Major shop had unsorted waste. The incinerator area is clean and the incinerator appears to be operating effectively; no smoke was visible during operation. The technician was just up to service the incinerator, which Sabina has done every year. Ash is stored in sealed barrels in a sea-can until backhaul. The burn cage area was clean and clear of any non-burnable materials.

Drill cuttings are hauled back to camp in mega-bags and deposited in an engineered sump. Innovative practices have been implemented to facilitate cuttings handling, and waste mega-bags are stored in a lined box beside the sump.

At the drills, the poly-drill system is in use to minimize water and drill additive usage. A flocculant is added to the water to settle cuttings, which go through several chambers of settling. This results in drier cuttings with less salt water that leaches into the sump. No spills were noted at the drills, and the cuttings were contained in lined fly-baskets. Waste sorting is occurring at the drills as well.



## FUEL and HAZARDOUS MATERIALS MANAGEMENT

### HAZARDOUS MATERIALS:

Owner/Operator: Sabina/Major

- ☒ Fuel  
☒ Drill additives/Salts  
☐ Other: \_\_\_\_\_

- ☒ Lubricants  
☒ Hazardous Waste  
☐

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

<b>Berms &amp; Liners:</b> A	<b>Water within Berms:</b> U (snow)	<b>Evidence of Leaks:</b> A
<b>Drainage Pipes:</b> NA	<b>Pipeline Condition:</b> A	<b>Condition of Tanks:</b> A
<b>Pump Station:</b> A	<b>Spills:</b> A	<b>Contingency Plan:</b> A

**Comments:** Good practices were seen around site with consistent use of secondary containment and drip trays. Fuel and hazardous waste are contained in bermed areas. The efficacy of most berms is currently compromised with snow, but staff are working to address this. Spill kits are visible and accessible. Sabina has purchased waste-oil burning heaters for the large Quonsets, which reduce the volume of hazardous waste to be backhauled. The Quonsets have been fully lined.

Major's area is generally clean, with all drill fluids and salts in very well-organized, lined sea-cans. Practices for storage of equipment should include draining, and the capping/plugging of all lines. One de-mobed drill setup showed some evidence of fluids dripping; this setup should be placed in a lined area. The stack of frost-fighters outside Major's shop had some units that weren't capped off.

Fuel at the drills is stored in double-walled tanks, and the nozzle is kept in a bucket to prevent drips when fuelling. Spill kits at the drills and pumps were visible and accessible.

### SITE CONDITIONS

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

<b>Ore &amp; Waste Rock Stockpiles:</b> NA	<b>Mine Water Discharge:</b> NA	<b>Geotechnical Inspection:</b> NI
<b>Erosion:</b> NI	<b>Seepages:</b> NI	<b>Construction:</b> NA
<b>Restoration Activities:</b> A	<b>A&amp;R Plan:</b> NI	

**Comments:** The site is clean and orderly. No spills were noted on-site.

**General Comments:** There are many improvements on-site, with the construction of pads for storage of goods and lined berms for fuel containment. The new helicopter pads appear to be well thought out; I look forward to seeing them with less snow. Major Drilling seems to find innovative ways to address any issues that are identified and has a good working relationship with Cheryl.

**Non-Compliance of Act or Licence:** N/A

#### Action Required:

1. Drill parts and spare equipment should be drained of fluids and hoses capped/plugged. Secondary containment is to be used.
2. Snow removal from berms as soon as possible.

Cheryl Way  
Licensee Representative's Name

Cheryl Way  
Licensee Representative's Signature

April 25/2014  
Date

Eva Paul  
Inspector's Name

[Signature]  
Inspector's Signature

April 25/2014  
Date