



# MIRAMAR HOPE BAY LTD.

300 - 889 Harbourside Drive, North Vancouver, B.C. V7P 3S1 Canada  
Phone 604-985-2572 Fax 604-980-0731  
Toll Free 1-800-663-8780

Submitted by e-mail, originals by post.

March 18, 2003

Mr Philippe di Pizzo  
Executive Director  
Nunavut Water Board,  
P.O. Box 119  
Gjoa Haven, NU, X0E 1J0

Dear Mr. di Pizzo,

**Re: Annual Reports for Water License: NWB1BOS0106 and NWB2HOP0207**

We are pleased to submit three (3) copies of the 2002 Annual Reports for each of the above captioned Water Licences. I also attach a cheque in the amount of \$60.00, payable to the Receiver General for Canada to cover the water use fees. These will be submitted by post, however, to ensure arrival of the annual reports by the due date, e-mail versions have been provided to your office in Gjoa Haven.

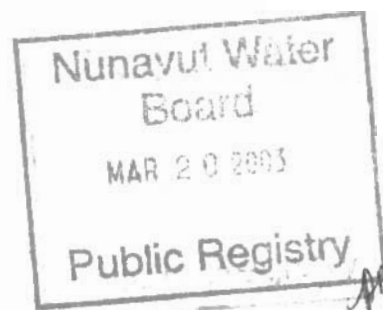
Should you require clarification on the contents of these reports, please do not hesitate to contact the undersigned at the numbers above or on cell number 780-975-2550 or by e-mail to [hwilson@miramarmining.com](mailto:hwilson@miramarmining.com); or [hugh\\_r\\_wilson@hotmail.com](mailto:hugh_r_wilson@hotmail.com).

Yours truly,

*Original signed by "H.R. Wilson"*

Hugh R. Wilson  
Manager, Environmental Affairs.

Cc: Darren Lindsay / Peter Kleespies, Project Managers – MHBL  
Stevii Greschuck, Environmental Coordinator, MHBL



030318 HOP Annual Report - ILAE



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2002

## ANNUAL REPORT TO THE NUNAVUT WATER BOARD

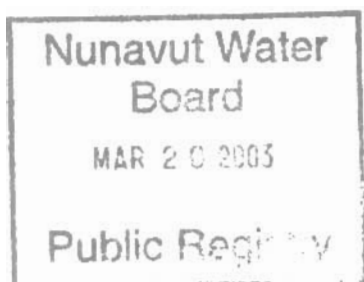
WATER LICENCE NWB2HOP0207

WINDY LAKE CAMP

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SUBMITTED BY MIRAMAR HOPE BAY LTD.

MARCH 18, 2002



## Introduction

This Annual Report fulfills the reporting requirements of Part B, Item 1 (i & ii) of License NWB2HOP0207 for the Windy Lake camp, operated by Miramar Hope Bay Ltd (MHBL) [formerly known as the Hope Bay Joint Venture (HBJV)].

This licence allows water use and waste disposal activities associated with the Windy camp located at Latitude 68 degrees 15 Minutes to 68 degrees 00 Minutes N and Longitude 106 degrees 45 Minutes to 106 degrees 20 Minutes W. MHBL's activities in 2002 consisted of advanced exploration activities using the Windy camp as a base. The camp was opened on February 28<sup>th</sup> with a skeleton crew with the main crews beginning drilling about March 15<sup>th</sup>. The camp was closed for the season on September 25<sup>th</sup>. The camp was shut down for a short period (~May 20 –~ July 15) during spring breakup.

### Annual Report as per Requirements of Part B – Item 1 (i-ii) and Part E, Item 7 of NWB2HOP0002

- i) *A list of unauthorized discharges and a summary of follow-up actions taken;*

***During the 2002 field program, there were two spills reported to the NWT Spill Line related to activities in the Windy Lake area.***

***Spill (#02-282) occurred on April 20, 2002, this was a spill of approximately 200 litres at the north end of Patch Lake. A spill report has been filed and cleanup is complete. It is expected that this file will be closed following inspection in summer 2003.***

***Spill (# 02-451) occurred on August 1, 2002, this was a spill of approximately 7200 litres of diesel fuel. A spill report was submitted to the 24 hour spill line and follow-up reporting was completed on September 3, 2002 as required by this water licence. MHBL refers the reader to the letter dated September 3, 2002 MHBL to the NWB. As reported in the August/September monthly report to the NWB, we again provide Oil and Grease analyses related to this spill. MHBL expects that following inspection of the site in summer 2003, and subsequent inspections by KIA and DIAND, this spill file will be closed.***

- ii) *Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.*

***There were no requests received from the Board therefore nothing to report.***

As per Part E, Item 7, we provide the following tabular summary of water quality taken during the open water season. In the licence amendment sampling of the RBC discharge and Windy lake downslope from the RBC discharge location are provided, which take the place of previously required sampling as follows:

Table 1 provides information for the RBC Sewage Discharge Point and Table 2 provides data on the "Windy Lake – Down-slope from RBC Sewage Discharge". Table 3 provides analyses results related to spill 3 02-451.

<b>Table 1</b>	<b>Rotating Biological Contactor (RBC) Sewage Discharge Point</b>				
<b>Parameters</b>					
<i>Sample Date</i>	<i>July 24</i>	<i>August 20</i>	<i>Sept. 08</i>		
<b>Physical Tests</b>					
pH	Not done	Sample lost	7.02		
Total Suspended Solids (mg/l)	420	Sample lost	320		
<b>Bacteriological Tests</b>					
Coliform Bacteria – Fecal (Cfu/100ml)	3500000	12800000	20000000		
<b>Extractables</b>					
Oil and Grease (mg/l)	38.6	169.3	244		
<b>Organic Parameters</b>					
BOD-5 (mg/l)	201	Sample lost	444		

Table 2	WINDY LAKE -DOWNSLOPE FROM RBC-SEWAGE DISCHARGE				
Parameters					
<i>Sample Date</i>	<i>July 24</i>	<i>August 20</i>	<i>Sept. 08</i>	<i>Sept.08 Duplicate</i>	
<b>Physical Tests</b>					
pH	7.83	7.78	7.72	7.78	
Total Suspended Solids (mg/l)	<3	13	8	6	
<b>Bacteriological Tests</b>					
Coliform Bacteria – Fecal (Cfu/100ml)	Not done	<2	<1000000*	<1	
<b>Extractables</b>					
Oil and Grease (mg/l)	<.2	0.4	1.1	No sample	
<b>Organic Parameters</b>					
BOD-5 (mg/l)	Not done	0.61	<2	<2	

\* Results questionable, duplicate was <2, similar to results in August. Final results confirm this.

Table 3	OIL AND GREASE ANALYSES COLLECTED RELATED TO SPILL REPORT # 02-451 ALL SAMPLE LOCATIONS WERE AT THE SHORELINE #1 - WINDY LAKE – CENTRE #2 - WINDY LAKE – 50 METERS SOUTH #3 - WINDY LAKE – 50 METERS NORTH #4 - WINDY LAKE – LAGOON				
<b>Sample location: 1</b>	Windy Lake-centre	Windy Lake centre	Windy Lake centre	Windy Lake centre	
<i>Sample Date</i>	<i>August 2</i>	<i>August 3</i>	<i>August 4</i>	<i>August 8</i>	
<b>Extractables</b>					
Oil and Grease (mg/l)	<0.2	1.0	<0.2	<0.2	
Laboratory Detection Limit	0.2	0.2	0.2	0.2	
<i>Sample Date</i>	<i>August 20</i>	<i>Sept. 8</i>			
<b>Extractables</b>					
Oil and Grease (mg/l)	0.6	<0.2			
Laboratory Detection Limit	0.2	0.2			

<b>Table 3</b>	<b>OIL AND GREASE ANALYSES COLLECTED RELATED TO SPILL</b> <b>REPORT # 02-451</b> <b>ALL SAMPLE LOCATIONS WERE AT THE SHORELINE</b> <b>#1 - WINDY LAKE – CENTRE</b> <b>#2 - WINDY LAKE – 50 METERS SOUTH</b> <b>#3 - WINDY LAKE – 50 METERS NORTH</b> <b>#4 - WINDY LAKE – LAGOON</b>				
<b>Sample location: 2</b>	Windy Lake- 50 meters South	Windy Lake- 50 meters South	Windy Lake- 50 meters South	Windy Lake- 50 meters South	
<b>Sample Date</b>	<i>August 2</i>	<i>August 3</i>	<i>August 4</i>	<i>August 8</i>	
<b>Extractables</b>					
Oil and Grease (mg/l)	0.5	1.2	0.2	<0.2	
Laboratory Detection Limit	0.2	0.2	0.2	0.2	
<b>Sample Date</b>	August 20	Sept. 8			
<b>Extractables</b>					
Oil and Grease (mg/l)	0.4	0.5			
Laboratory Detection Limit	0.2	0.2			

<b>Table 3</b>	<b>OIL AND GREASE ANALYSES COLLECTED RELATED TO SPILL</b> <b>REPORT # 02-451</b> <b>ALL SAMPLE LOCATIONS WERE AT THE SHORELINE</b> <b>#1 - WINDY LAKE – CENTRE</b> <b>#2 - WINDY LAKE – 50 METERS SOUTH</b> <b>#3 - WINDY LAKE – 50 METERS NORTH</b> <b>#4 - WINDY LAKE – LAGOON</b>				
<b>Sample location: 3</b>	Windy Lake- 50 meters North	Windy Lake- 50 meters North	Windy Lake- 50 meters North	Windy Lake- 50 meters North	
<b>Sample Date</b>	<i>August 2</i>	<i>August 3</i>	<i>August 4</i>	<i>August 8</i>	
<b>Extractables</b>					
Oil and Grease (mg/l)	<0.2	0.8	<0.2	<0.2	
Laboratory Detection Limit	0.2	0.2	0.2	0.2	
<b>Sample Date</b>	August 20	Sept. 8			
<b>Extractables</b>					
Oil and Grease (mg/l)	0.8	<0.2			
Laboratory Detection Limit	0.2	0.2			

<b>Table 3</b>	<b>OIL AND GREASE ANALYSES COLLECTED RELATED TO SPILL</b> <b>REPORT # 02-451</b> <b>ALL SAMPLE LOCATIONS WERE AT THE SHORELINE</b> <b>#1 - WINDY LAKE – CENTRE</b> <b>#2 - WINDY LAKE – 50 METERS SOUTH</b> <b>#3 - WINDY LAKE – 50 METERS NORTH</b> <b>#4 - WINDY LAKE – LAGOON **</b>				
<b>Sample location: 4</b>	Windy Lake-Lagoon	Windy Lake-Lagoon	Windy Lake-Lagoon	Windy Lake-Lagoon	
<b>Sample Date</b>	<i>August 2</i>	<i>August 3</i>	<i>August 4</i>	<i>August 8</i>	
<b>Extractables</b>					
Oil and Grease (mg/l)	<0.2	1.2	0.7	3.0	
Laboratory Detection Limit	0.2	0.2	0.2	0.2	
<b>Sample Date</b>	August 20	Sept. 8			
<b>Extractables</b>					
Oil and Grease (mg/l)	Analyst error	0.5			
Laboratory Detection Limit	0.2	0.2			

\*\* Note: Historical residues from the incinerator and latrines may be a cause for the slightly elevated results. These results should be used with caution and be compared to similar sampling dates in Windy Lake.

This concludes the 2002 Annual Report and is felt to meet full compliance with the stated terms and conditions of Water Licence NWB2HOP0207.