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From: [Stephane Robert](#)
To: licensingadmin@nunavutwaterboard.org
Cc: [Jim Rogers](#); David.Abernethy@inac-ainc.gc.ca; environmental@kivalliqinuit.ca; ian.rumbolt@inac-ainc.gc.ca
Subject: 2AM-MEA0815 February 2011 Monitoring Summary Report
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Attachments: [2AM-MEA0815 February 2011 Monitoring Summary Report.pdf](#)

Dear Richard

As required by NWB Water license 2AM-MEA0815 Part I Item 25, please find the February 2011 Monitoring Summary Report for the Meadowbank Division attached.

Should you have any questions regarding this submission, please contact me via email at stephane.robert@agnico-eagle.com.

Regards

Stéphane Robert
Environment Superintendent
Meadowbank Division
Cell: 819-763-0229
stephane.robert@agnico-eagle.com



MEADOWBANK DIVISION

Monitoring Program Summary Report

February 2011

Type A Water License 2AM-MEA0815

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SECTION 1 • BACKGROUND

As required under Part I, Item 25 of Type A Water License 2AM-MEA0815, this report documents the water management and monitoring activity at the mine site for the month. This activity includes: water usage, sewage treatment plant discharge water quality and dewatering monitoring.

Additionally, a summary of the AEM internal spill reporting for the month is included.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Freshwater usage for the month totals 73,438 m³ and is summarized in Table 2.1 below. The consumption of fresh water for mine and mill operations (including production drills, batch plant and dust control) was 70,324 m³ and the consumption of reclaim water in the mill was 153,657 m³.

Table 2-1: Freshwater Usage (m³)

	February
Camp	2861
Mine & Mill Operations	70324
Emulsion Plant	117
Water Truck	136
Total for the site	73438
Year to date (m³)	144,947

2.2 SEWAGE TREATMENT PLANT MONITORING

Three water samples were taken at the effluent of the sewage treatment plants (STP). Because of bad weather, no water quality sampling was conducted the week of February 7, 2011. The results showed the system is working well.

Table 2-2: STP Effluent Results

Date	Units	7-Feb-11	14-Feb-11	21-Feb-11	28-Feb-11
BOD-5	mg/L		2	1	2
COD (mg/L)	mg/L		17	27	50
Total Suspended Solids	mg/L		6	12	21
Nitrate-Nitrite	mg N/L		51.5	43.3	30.5
pH	units		3.3	3.5	4.1
Total Phosphorus	mg/L		12.9	13.0	12.3
Ammonia	mg/L		30.1	33	16.2
Fecal Coliform	UFC/100 mL		<2	<2	2
Total Coliform	UFC/100 mL		10	39	32

2.3 DEWATERING OF SECOND PORTAGE ARM

The dewatering of Second Portage Arm was stopped all month.

SECTION 3 • SPILL MANAGEMENT SUMMARY

AEM has developed a system of tracking spills on-site. Table 3.1 summarizes the AEM internal spill reports for the month. No spills were reported to the GN spill hotline.

Table 3-1: Summary of AEM Internal Spill Reports

Date of Spill	Hazardous Material (Fuel, Oil, etc.)	Quantity	Location	Cause of spill	Clean-up action taken	Reported to Spill GN HotLine
2011-02-19	Fuel	40 L	Meadowbank fuel farm at distributor	Breaker of main control kicked out when reenergized the fuel hose came out of the tank of fuel truck	Contaminated snow collected and was bring to the snow cell.	N
2011-02-18	Hydraulic oil	12 L	Front of construction garage	Hose broke on a zoom boom	Contaminated snow collected and was bring to the snow cell.	N
2011-02-14	Anti-Freeze	5 L	Fuel farm parking	Haul truck cooling during the blizzard	Contaminated snow collected and was bring to the snow cell.	N
2011-02-12	Transmission oil	8 L	Heavy equipment parking by Refuelling station	Haul truck	Contaminated snow collected and was bring to the snow cell.	N
2011-02-12	Diesel fuel	numerous spots	Service Building	vehicles waiting for maintenance	Contaminated snow collected and was bring to the snow cell.	N
2011-02-19	Diesel fuel	numerous spots	Airport Tarmac	possibly refuelling plane	Contaminated snow collected and was bring to the snow cell.	N
2011-02-19	Oil	5L	Old garage	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-19	Diesel fuel	5L	Exploration camp	?	Contaminated snow collected and was bring to the snow cell.	N

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2011-02-27	Oil	40L	Cold storage coverall	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	5L	Construction Garage	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	10L	Exploration camp	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	10L	Gym coverall area	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	60L	Heavy equipment parking by Refuelling station	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	10L	Incinerator area	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	20L	Old warehouse	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	50L	TCG shop area	?	Contaminated snow collected and was bring to the snow cell.	N
2011-02-27	Oil	60 L	Service Building	?	Contaminated snow collected and was bring to the snow cell.	N