

September 13, 2010

Via Email and Xpresspost

Richard Dwyer
Licensing Administrator
Nunavut Water Board
PO Box 119
Gjoa Haven, NU X0B 1J0
Phone: (867) 360-6338

Re: Water License 2AM-MEA0815 August Monitoring Program Summary Report

As required by Water license 2AM-MEA0815 Part I Item 25, please find the August 2010 Monitoring Program Summary Report enclosed.

Should you have any questions regarding this submission, please contact me directly at 819-763-0229 or via email at stephane.robert@agnico-eagle.com.

Regards,



Stéphane Robert,
Environment Superintendent

Encl

cc: Lou-Ann Cornacchio, INAC
David Abernethy, INAC
Bryan Rainer, INAC
Stephen Hartman, KIA



MEADOWBANK GOLD PROJECT

Monitoring Program Summary Report

August 2010

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 of August 2010. This activity includes: water usage and sewage treatment plant, dewatering and dike construction 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 99,162 m³ and is summarized in Table 2.1 below. The consumption of fresh water for the mill and dust control was 95,954 m³ and the consumption of reclaim water was 215,896 m³.

Table 2-1: August 2010 Freshwater Usage

	August
Batch Plant (m ³)	0
Water Treatment Plant (m ³)	3026
Mill and Dust Control (m ³)	95,954
Emulsion plant (m ³)	182
Total for the month (m³)	99,162
Year to date (m³)	808,596
Maximum Allowable Limit (m³/year)	700,000

2.2 SEWAGE TREATMENT PLANT MONITORING

Five water samples were taken at the effluent of the sewage treatment plants (STP). The results showed the two systems are working well. Atypical colonies were significantly elevated on August 23, but returned to normal working concentrations by August 30.

Table 2-2: August 2010 STP Effluent Results

Parameter	02-Aug-10	09-Aug-10	16-Aug-10	23-Aug-10	30-Aug-10
NH3-NH4 (mg/L)	22.5	21.9	27.8	21.3	21.2
BOD-5 (mg/L)	8	21	10	9	7
COD (mg/L)	80	98	40	52	43
TSS (mg/L)	27	20	21	15	19
NO2-NO3 (mg N/L)	41.9	46.5	53.8	42.4	45.0
pH (mg/L)	6.16	5.60	5.82	4.86	4.04
P tot (mg P/L)	16.3	15.6	71.6	12.8	17.7
Fecal Coliform (UFC/100mL)	80	< 4	20	10	< 4
Total Coliform (UFC/100mL)	500	< 1,000	1,000	< 100,000	100
Atypical Colony (UFC/100mL)	5800	21,500	30,000	13,800,000	4,000

2.3 DEWATERING OF SECOND PORTAGE ARM

Water quality monitoring for the Second Portage Arm dewatering project continued throughout August.

Concentrations of pH have up to date been recorded in the monthly reports for laboratory results. AEM has noticed that these values are consistently lower than field measurements using equipment calibrated at every monitoring event. Consequently, from this date forward, all pH concentrations reported in the monthly report will be for field measured data.

The pH and Aluminum concentrations at the outlet of the TSS treatment plants were as follows:

- pH 24 hour minimum/maximum: 6.41/7.79 units (Limit is 6-9 units)
- Al 24 hour maximum concentration: 1.15 mg/L (Limit is 1.5 mg/L)

Table 2.3 summarizes the August dewatering monitoring results for pH and Aluminum.

Table 2-3: August 2010 Dewatering Monitoring – pH and Al

Date	DD-WTP-01		DD-WTP-02		Both WTP Outlets	
	pH	Total Al	pH	Total Al	pH 24-hour Mean	Al 24-hour Mean
	units	mg/L	units	mg/L	units	mg/L
2010-08-02			6.50	0.682	6.50	0.682
2010-08-09	6.53	1.15			6.53	1.150
2010-08-16	7.79	0.867			7.79	0.867
2010-08-24	7.21	0.370			7.21	0.370
2010-08-30	6.41	0.624			6.41	0.624

The turbidity and Total Suspended Solids (TSS) concentrations at the outlet of the TSS treatment plants were as follows:

- NTU 24 hour mean maximum concentration: 12.4 NTU (Maximum Limit is 30 NTU)
- TSS 24 hour mean maximum concentration: 65 mg/L (Maximum Limit is 22.5 mg/L)
- NTU 30 days mean concentration: 5.3 NTU (Maximum Limit is 15 NTU)

Table 2.4 summarizes the August dewatering monitoring results for turbidity and TSS. The results demonstrate that on August 19 the 24-hour mean TSS concentration exceeded the license criteria (65 mg/L). The operational parameters show that the Treatment plan was working well and the

following day the TSS concentrations returned to normal working concentrations. We think that an error during the sampling occurred.

In addition, on August 25 no TSS concentration was available for DD-WTP-01; the sample was collected but the laboratory erroneously did not analyze the sample.

Table 2-4: August 2010 Dewatering Monitoring – TSS and Turbidity

Date	DD-WTP-01(Out)		DD-WTP-02(Out)		Both WTP Outlets			
	24-hour Mean	Lab TSS	24-hour Mean	Lab TSS	NTU 24-hour Mean	TSS 24-hour Mean	NTU 30-day Mean	TSS 30-day Mean
	NTU	mg/L	NTU	mg/L	NTU	mg/L	NTU	mg/L
2010-08-01	Not in operation		4.44	13	4.4	13	5.1	10
2010-08-02	Not in operation		4.41	11	4.4	11	5.0	10
2010-08-03	Not in operation		Not in operation					
2010-08-04	Not in operation		3.76	11	3.8	11	4.9	10
2010-08-05	Not in operation		2.88	20	2.9	20	4.9	11
2010-08-06	Not in operation		Not in operation					
2010-08-07	3.5	8	Not in operation		3.5	8	4.8	11
2010-08-10	3.5	8	Not in operation		3.5	8	4.6	11
2010-08-09	3.4	8	Not in operation		3.4	8	4.5	11
2010-08-10	4.4	7	Not in operation		4.4	7	4.5	10
2010-08-11	4.2	9	Not in operation		4.2	9	4.4	10
2010-08-12	3.9	10	Not in operation		3.9	10	4.3	10
2010-08-13	3.7	13	Not in operation		3.7	13	4.2	10
2010-08-14	3.7	11	Not in operation		3.7	11	4.2	10
2010-08-15	3.0	16	Not in operation		3.0	16	4.1	11
2010-08-16	4.7	14	Not in operation		4.7	14	4.2	11
2010-08-17	4.7	12	Not in operation		4.7	12	4.2	11
2010-08-18	7.0	13	Not in operation		7.0	13	4.2	11
2010-08-19	3.3	65	Not in operation		3.3	65	4.2	13
2010-08-20	9.2	9	Not in operation		9.2	9	4.4	13
2010-08-21	Not in operation		Not in operation					
2010-08-22	7.9	16	Not in operation		7.9	16	4.5	13
2010-08-23	12.4	10	Not in operation		12.4	10	4.8	12
2010-08-24	3.2	5	Not in operation		3.2	5	4.7	12
2010-08-25	5.6	****	Not in operation		5.6		4.7	12
2010-08-26	9.7	15	Not in operation		9.7	15	5.0	13
2010-08-27	7.6	12	Not in operation		7.6	12	5.1	13
2010-08-28	4.6	7	Not in operation		4.6	7	5.2	13
2010-08-29	4.0	12	Not in operation		4.0	12	5.3	13
2010-08-30	7.3	10	Not in operation		7.3	10	5.3	13
2010-08-31	7.0	11	Not in operation		7.0	11	5.4	13

2.4 DIKE CONSTRUCTION MONITORING

Construction and monitoring of Bay Goose dike continued throughout August 2010

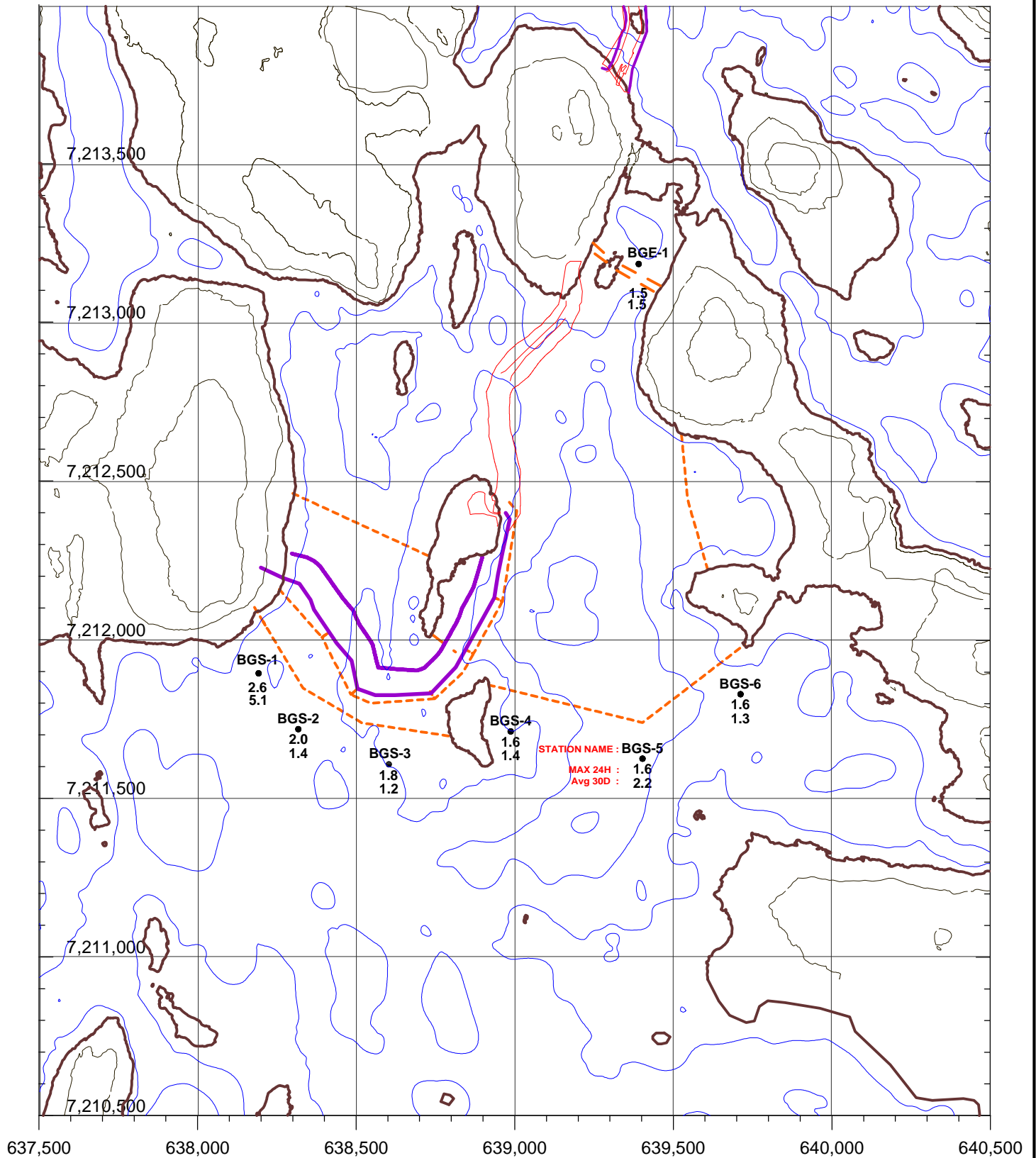
The TSS concentrations for the Bay Goose dike construction were as follows:

- Maximum short-term (24 hour) TSS concentration from monitoring stations BGE-1, BGS-1, BGS-2, BGS-5 and BGS-6 on the Bay Goose dike was 20.5 mg/L (Maximum Limit is 50 mg/L)
- Maximum short-term (24 hour) TSS concentration from monitoring stations BGS-3 and BGS-4 on the Bay Goose dike was 3.9 mg/L (Maximum Limit is 50 mg/L, after September 1 the Maximum Limit is 25 due to the proximity of High Value Habitat)
- Maximum 30 day mean TSS concentration from monitoring stations BGE-1, BGS-1, BGS-2, BGS-5 and BGS-6 on the Bay Goose dike was 5.2 mg/L (Maximum Limit is 15 mg/L)
- Maximum 30 day mean TSS concentration from monitoring stations BGS-3 and BGS-4 on the Bay Goose dike was 1.4 mg/L (Maximum Limit is 15 mg/L, after September 1 the Maximum Limit is 6 due to the proximity of High Value Habitat)

The August 2010 dike construction monitoring results are provided in Table 2.5 and the station locations are shown on Figure 1.

Table 2.5: August 2010 Dike Construction Monitoring Results

Date	BGE-1			Coordinates		BGS-1			Coordinates		BGS-2			Coordinates		BGS-3			Coordinates		BGS-4			Coordinates		BGS-5			Coordinates		BGS-6			Coordinates	
	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing	Max NTU of day	Max TSS of day mg/L	TSS 30 day Mean mg/L	Easting	Northing
2010-07-14	3.5	0.8	0.8	639,391	7,213,184	13.2	3.3	3.3	638,238	7,211,920	7.5	1.8	1.8	638,345	7,211,796	7.7	1.9	1.9	638,605	7,211,680	5.6	1.3	1.3	639,228	7,211,732	5.9	1.4	1.4	639,364	7,211,692	4.5	1.1	1.1	639,651	7,211,862
2010-07-18	2.9	0.7	0.8	639,391	7,213,184	21.1	5.4	4.4	638,238	7,211,920	4.9	1.2	1.5	638,345	7,211,796	3.3	0.8	1.3	638,605	7,211,680	4.7	1.1	1.2	639,228	7,211,732	3.7	0.9	1.2	639,364	7,211,692	3.1	0.7	0.9	639,651	7,211,862
2010-07-19	2.9	0.7	0.7	639,391	7,213,184	8.6	2.1	3.6	638,238	7,211,920	3.9	0.9	1.3	638,345	7,211,796	2.4	0.6	1.1	638,605	7,211,680	3.8	0.9	1.1	639,228	7,211,732	3.6	0.9	1.1	639,364	7,211,692	2.7	0.6	0.8	639,651	7,211,862
2010-07-20	2.8	0.7	0.7	639,391	7,213,184	25.1	6.5	4.3	638,238	7,211,920	4.2	1.0	1.2	638,345	7,211,796	2.4	0.6	0.9	638,605	7,211,680	2.9	0.7	1.0	639,228	7,211,732	6.0	1.5	1.2	639,364	7,211,692	2.6	0.6	0.8	639,651	7,211,862
2010-07-21	2.8	0.7	0.7	639,391	7,213,184	6.2	1.5	3.8	638,238	7,211,920	2.4	0.6	1.1	638,345	7,211,796	2.3	0.5	0.9	638,605	7,211,680	3.0	0.7	1.0	639,228	7,211,732	4.9	1.2	1.2	639,364	7,211,692	2.4	0.6	0.7	639,651	7,211,862
2010-07-22	2.4	0.6	0.7	639,391	7,213,184	11.1	2.8	3.6	638,238	7,211,920	2.5	0.6	1.0	638,345	7,211,796	2.7	0.6	0.8	638,605	7,211,680	3.0	0.7	0.9	639,228	7,211,732	4.4	1.1	1.1	639,364	7,211,692	2.3	0.5	0.7	639,651	7,211,862
2010-07-23	2.3	0.5	0.7	639,391	7,213,184	17.0	4.3	3.7	638,238	7,211,920	2.2	0.5	0.9	638,345	7,211,796	2.9	0.7	0.8	638,605	7,211,680	2.7	0.6	0.9	639,228	7,211,732	3.5	0.8	1.1	639,364	7,211,692	2.2	0.5	0.7	639,651	7,211,862
2010-07-24	2.1	0.5	0.6	639,391	7,213,184	14.0	3.5	3.7	638,238	7,211,920	2.3	0.5	0.9	638,345	7,211,796	1.9	0.4	0.8	638,605	7,211,680	2.8	0.7	0.8	639,228	7,211,732	3.7	0.9	1.1	639,364	7,211,692	1.8	0.4	0.6	639,651	7,211,862
2010-07-25	1.7	0.4	0.6	639,391	7,213,184	11.8	3.0	3.6	638,238	7,211,920	2.2	0.5	0.8	638,345	7,211,796	1.9	0.4	0.7	638,605	7,211,680	2.9	0.7	0.8	639,228	7,211,732	3.0	0.7	1.0	639,364	7,211,692	1.6	0.4	0.6	639,651	7,211,862
2010-07-26	1.8	0.4	0.6	639,391	7,213,184	9.8	2.4	3.5	638,238	7,211,920	1.3	0.3	0.8	638,345	7,211,796	1.7	0.4	0.7	638,605	7,211,680	4.2	1.0	0.8	639,228	7,211,732	2.6	0.6	1.0	639,364	7,211,692	1.5	0.3	0.6	639,651	7,211,862
2010-07-27	1.8	0.4	0.6	639,391	7,213,184	7.2	1.8	3.3	638,209	7,211,874	1.4	0.3	0.8	638,318	7,211,718	1.4	0.3	0.7	638,603	7,211,607	1.9	0.4	0.8	639,228	7,211,732	7.0	1.7	1.1	639,364	7,211,692	1.7	0.4	0.6	639,651	7,211,862
2010-07-28	1.5	0.3	0.6	639,391	7,213,184	2.6	0.6	3.1	638,192	7,211,894	1.0	0.2	0.7	638,318	7,211,718	1.5	0.3	0.6	638,603	7,211,607	1.8	0.4	0.8	638,987	7,211,711	1.2	0.3	1.0	639,403	7,211,625	1.5	0.3	0.5	639,712	7,211,828
2010-07-29	1.1	0.2	0.5	639,391	7,213,184	0.8	0.2	2.9	638,192	7,211,894	0.3	0.1	0.7	638,318	7,211,718	0.3	0.1	0.6	638,603	7,211,607	0.8	0.2	0.7	638,987	7,211,711	0.9	0.2	0.9	639,403	7,211,625	0.7	0.2	0.5	639,712	7,211,828
2010-07-30	1.2	0.3	0.5	639,391	7,213,184	2.6	0.6	2.7	638,192	7,211,894	0.6	0.1	0.6	638,318	7,211,718	0.6	0.1	0.6	638,603	7,211,607	1.0	0.2	0.7	638,987	7,211,711	2.1	0.5	0.9	639,403	7,211,625	1.0	0.2	0.5	639,712	7,211,828
2010-07-31	1.0	0.2	0.5	639,391	7,213,184	3.4	0.8	2.6	638,192	7,211,894	0.7	0.2	0.6	638,318	7,211,718	0.6	0.1	0.5	638,603	7,211,607	0.7	0.2	0.7	638,987	7,211,711	2.4	0.6	0.9	639,403	7,211,625	0.9	0.2	0.5	639,712	7,211,828
2010-08-01	0.7	0.2	0.5	639,391	7,213,184	2.1	0.5	2.5	638,192	7,211,894	0.6	0.1	0.6	638,318	7,211,718	0.5	0.1	0.5	638,603	7,211,607	0.8	0.2	0.6	638,987	7,211,711	3.1	0.7	0.9	639,403	7,211,625	1.0	0.2	0.5	639,712	7,211,828
2010-08-02	0.5	0.1	0.5	639,391	7,213,184	4.0	1.0	2.4	638,192	7,211,894	0.3	0.1	0.5	638,318	7,211,718	0.5	0.1	0.5	638,603	7,211,607	1.0	0.2	0.6	638,987	7,211,711	3.3	0.8	0.9	639,403	7,211,625	0.6	0.1	0.4	639,712	7,211,828
2010-08-03	0.9	0.2	0.4	639,391	7,213,184	3.5	0.8	2.3	638,192	7,211,894	0.5	0.1	0.5	638,318	7,211,718	0.6	0.1	0.5	638,603	7,211,607	0.7	0.2	0.6	638,987	7,211,711	15.4	3.9	1.0	639,403	7,211,625	1.3	0.3	0.4	639,712	7,211,828
2010-08-04	0.9	0.2	0.4	639,391	7,213,184	3.5	0.8	2.2	638,192	7,211,894	0.5	0.1	0.5	638,318	7,211,718	0.6	0.1	0.4	638,603	7,211,607	0.7	0.2	0.6	638,987	7,211,711	15.4	3.9	1.2	639,403	7,211,625	1.3	0.3	0.4	639,712	7,211,828
2010-08-05	0.9	0.2	0.4	639,391	7,213,184	3.5	0.8	2.1	638,192	7,211,894	0.5	0.1	0.5	638,318	7,211,718	0.6	0.1	0.4	638,603	7,211,607	0.7	0.2	0.5	638,987	7,211,711	15.4	3.9	1.3	639,403	7,211,625	1.3	0.3	0.4	639,712	7,211,828
2010-08-06	14.1	3.6	0.5	639,391	7,213,184	3.6	0.9	1.5	638,192	7,211,894	1.5	0.3	0.3	638,318	7,211,718	2.3	0.5	0.3	638,603	7,211,607	6.5	1.6	0.5	638,987	7,211,711	16.4	4.2	1.5	639,403	7,211,625	7.5	1.8	0.4	639,712	7,211,828
2010-08-07	8.0	2.0	0.6	639,391	7,213,184	22.2	5.7	2.2	638,192	7,211,894	2.0	0.5	0.5	638,318	7,211,718	2.6	0.6	0.4	638,603	7,211,607	5.0	1.2	0.6	638,987	7,211,711	13.9	3.5	1.5	639,403	7,211,625	6.6	1.6	0.5	639,712	7,211,828
2010-08-08	7.6	1.9	0.7	639,391	7,213,184	50.3	13.5	2.7	638,192	7,211,894	3.4	0.8	0.5	638,318	7,211,718	2.7	0.6	0.4	638,603	7,211,607	5.2	1.3	0.6	638,987	7,211,711	13.4	3.4	1.6	639,403	7,211,625	6.5	1.6	0.6	639,712	7,211,828
2010-08-09	6.0	1.5	0.7	639,391	7,213,184	41.7	11.1	3.1	638,192	7,211,894	3.0	0.7	0.5	638,318	7,211,718	4.7	1.1	0.5	638,603	7,211,607	5.2	1.3	0.7	638,987	7,211,711	13.3	3.3	1.7	639,403	7,211,625	6.9	1.7	0.6	639,712	7,211,828
2010-08-10	5.3	1.3	0.7	639,391	7,213,184	51.7	13.9	3.5	638,192	7,211,894	5.0	1.2	0.5	638,318	7,211,718	2.7	0.6	0.5	638,603	7,211,607	4.6	1.1	0.7	638,987	7,211,711	12.1	3.0	1.7	639,403	7,211,625	4.5	1.1	0.6	639,712	7,211,828
2010-08-11	4.7	1.1	0.8	639,391	7,213,184	65.1	17.6	4.1	638,192	7,211,894	2.1	0.5	0.5	638,318	7,211,718	3.7	0.9	0.5	638,603	7,211,607	3.6	0.9	0.7	638,987	7,211,711	5.8	1.4	1.7	639,403	7,211,625	3.3	0.8	0.6	639,712	7,211,828
2010-08-12	4.5	1.1	0.8	639,391	7,213,184																														



NOTES:

FIELD READINGS BY AEM

REPORTED TSS IS THE MAXIMUM VALUE ALONG THE PROFILE

TURBIDITY-BASED ESTIMATES OF TOTAL SUSPENDED SOLIDS
(TSS in mg/L)

LIMIT 24 HOURS : 50 mg/L

LIMIT 30 DAYS Avg : 15 mg/L

AGNICO-EAGLE MINES LIMITED - MEADOWBANK DIVISION

BAY-GOOSE DIKE CONSTRUCTION

TSS MONITORING DURING CONSTRUCTION

DATE : 31-Aug-2010

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 August. One spill was reported to the GN spill hotline.

Table 3-1: Summary of August 2010 AEM Internal Spill Reports

Date of Spill	Hazardous Material	Quantity	Location	Cause of spill	Clean-up action taken	Reported to Spill HotLine
2010-08-03	Grease	20 L	Lay down row 6	2 drums fell to the ground when door opened to seacan	Remaining grease and contaminated soil taken to the Hazmat area	N
2010-08-03	Fuel	unknown	Emulsion plant	Leaking pipe	Contaminated soil was taken to Quarry 22; pipe is scheduled for repair	N
Unknown; Unreported spill	Oil	~ 20 to 30 L	North portage pit	Leak from the RH120	Contaminated soil was taken to Quarry 22	N
Unknown; Unreported spill	Fuel	unknown	TCG garage area	unknown	Contaminated soil was put in drums and taken to Hazmat area	N
Unknown; Unreported spill	Oil	unknown	Near the leaching tank and the power house	Equipment leak	Contaminated soil was put in drums and taken to Hazmat area	N
Unknown; Unreported spill	Oil	unknown	Heavy equipment parking lot	Equipment leak	Contaminated soil was put in drums and taken to Hazmat area	N
Unknown; Unreported spill	Oil & Fuel	unknown	Construction garage yard	Equipment leak	Contaminated soil was put in drums and taken to Hazmat area	N
2010-08-07	Fuel	20 L	North portage pit	Fuel tank on haul truck punctured by rock	Spill was contained by a shovel bucket; fuel was transferred in pails to a tote and taken to Hazmat area; contaminated soil was taken to Quarry 22	N

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2010-08-14	Oil	205 L	On the road between Baker Lake and Meadowbank	Drums damaged during transportation	Absorbent pads used to clean seacan; contaminated soil taken to Quarry 22	Y
2010-08-19	Fuel	80 L	North portage pit	Quick connect on fuel tank failed	Contaminated soil was taken to Quarry 22	N
2010-08-22	Hydraulic Oil	80 L	North portage pit	Hydraulic hose on loader broke	Contaminated soil was taken to Quarry 22	N
2010-08-28	Oil	1 L	Lay down row 5	Drums damaged during transportation	Contaminated soil was taken to Quarry 22	N