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Ministry of Environment
Mining Operations Environmental Protection

Submitted via email
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PERMIT 11678 APRIL 2017 MONTHLY REPORT

This report satisfies the requirements of Section 3.9 of EMA Permit 11678 (last amended April 7, 2017). This report includes the following components:

- Summary of volume of treated effluent discharged
- Summary of continuous Turbidity readings of the treated effluent discharged,
- The most recently available water quality, and previous two months, results for the effluent discharged
- The most recent toxicity testing results

Water Treatment and Discharge

There was no discharge of water from the Water Treatment Plant (WTP), station name HAD-03, in April. Discharge ceased on March 30, 2017 due to naturally high flows in Hazeltine Creek. A requirement for additional testing as outlined in section 1.2.4 and 1.2.6 of the newly amended EMA Permit 11678 has delayed the re-start of discharge from the WTP. The total amount of treated water discharged from April 1 to April 30, 2017 was 0 m³.

Water Quality Monitoring

No samples were collected at end of pipe (station HAD-03) as the WTP was not operating in April. Results for HAD-03 from the previous two months' sampling events are in Table 1.

Table 1. Sample analysis results for HAD-03 (end of pipe from the water treatment plant)

Lab Analysis Results for HAD-03					Permit 11678 mg/L
	01-Feb-17	07-Feb-17	14-Feb-17	21-Feb-17	
Total Suspended Solids (mg/L)	7.8	1.7	8.6	7.9	15
Nitrate (as-N)- Total (mg/L)	8.72	8.88	8.45	8.48	9.7
Ammonia (as N) - Total (mg/L)	0.0215	0.0248	0.0236	<0.0050	0.41
Phosphorus (P) - Total (mg/L)	0.0039	0.0078	0.0049	0.0030	0.09
Sulphate (mg/L)	540	550	526	530	720
Arsenic (As) - Total (mg/L)	0.0007	0.00121	0.00075	0.00090	0.0034
Copper (Cu)-Total (mg/L)	0.0046	0.00773	0.00506	0.00632	0.012
Cadmium (Cd)-Total (mg/L)	<0.000030	<0.000030	0.0000215	<0.000050	N/A
Chromium (Cr) - Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	0.0011
Iron (Fe) - Total (mg/L)	<0.030	0.033	<0.030	<0.030	0.11
Molybdenum (Mo)-Total (mg/L)	0.19	0.179	0.171	0.185	0.2
Selenium (Se)-Total (mg/L)	0.0369	0.0353	0.0349	0.0372	0.06
Vanadium (V) - Total (mg/L)	0.00112	0.00136	0.00113	0.00127	0.0081
Zinc (Zn) - Total (mg/L)	<0.0030	<0.0030	0.0031	<0.0030	0.0083

Lab Analysis Results for HAD-03							Permit 11678 mg/L
	01-Mar-17	07-Mar-17	14-Mar-17	21-Mar-17	27-Mar-17	30-Mar-17	
Total Suspended Solids (mg/L)	11.1	9.3	10.7	7.1	7.7	7.38	15
Nitrate (as N)- Total (mg/L)	8.74	8.32	8.4	8.54	8.52	7.85	9.7
Ammonia (as N) - Total (mg/L)	0.0197	0.0197	0.0219	0.0129	0.0096	0.0106	0.41
Phosphorus (P) - Total (mg/L)	0.004	<0.0020	0.0024	0.0036	0.0039	0.0023	0.09
Sulphate (mg/L)	540	528	524	534	537	493	720
Arsenic (As) - Total (mg/L)	0.00077	0.00082	0.00081	0.00077	0.00066	0.00071	0.0034
Copper (Cu)-Total (mg/L)	0.0053	0.0052	0.00604	0.0056	0.00487	0.00568	0.012
Cadmium (Cd)-Total (mg/L)	<0.000055	<0.000060	<0.000050	<0.000080	<0.000060	<0.000060	N/A
Chromium (Cr) - Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0011
Iron (Fe) - Total (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.11
Molybdenum (Mo)-Total (mg/L)	0.168	0.172	0.167	0.174	0.162	0.169	0.2
Selenium (Se)-Total (mg/L)	0.0354	0.0357	0.0359	0.0337	0.033	0.0355	0.06
Vanadium (V) - Total (mg/L)	0.00106	0.00108	0.00119	0.00116	0.00105	0.00114	0.0081
Zinc (Zn) - Total (mg/L)	<0.0030	0.0053	<0.0030	<0.0030	<0.0030	<0.0030	0.0083

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