



# Mount Polley Mining Corporation

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Ministry of Environment (MoE)  
Mining Operations Environmental Protection

Submitted via email

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## **PERMIT 11678 MAY 2017 MONTHLY REPORT**

This report satisfies the requirements of Section 3.9 of Environmental Management Act (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 May. 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 delayed the re-start of discharge from the WTP, however this testing was completed and all tests passed and was approved by the Director on May 16, 2017. We have not restarted the discharge under the new permit as we continue to discuss the permit requirements outlined in section 1.2.3 and 1.2.6 with the MoE to ensure we achieve compliance of all components. The total amount of treated water discharged from May 1 to May 31, 2017 was 0 m<sup>3</sup>.

### **Water Quality Monitoring**

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

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

Lab Analysis Results for HAD-03								Permit 11678
	01-Mar-17	07-Mar-17	14-Mar-17	21-Mar-17	27-Mar-17	30-Mar-17		mg/L
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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