



## 2019-05-29 WTP TSS Exceedance

GN reference # : 2019-233

Please find the following information as a follow up to the Spill report submitted June 6<sup>th</sup>, 2019 by Agnico Eagle Meadowbank division. This detailed report is submitted to the Inspector in compliance with the conditions under the Nunavut Water Board License 2AM-WTP1826, Part H, Item 8c.

### Spill Description

The effluent of the ST-MDMER-5 Whale Tail North Basin dewatering was sampled on May 29, 2019 at 9:50 am as required by the Water license 2AM-WTP1826. The discharge of the ST-MDMER-5 was planned to be stopped on May 29 so that the dewatering pipe could be moved into a deeper section of the Whale Tail North Basin. At 10:00am the pumps were shut down. On June 6, 2019 – laboratory certificate showed a TSS level of 88 mg/L. Based on the total flow of 500 m<sup>3</sup> between May 29 9:00am (previous grab sample) and May 29 10:00am, the quantity of TSS is estimated at 45 kg.

Spill location: N 65 23'51.3" W 096 40'49"

### Cause of Spill

The dewatering of Whale Tail North Basin was planned to be stopped on May 29, 2019 to extend the dewatering pipe into a deeper portion of the North Basin to avoid creating a disturbance of the lakebed sediment. The daily readings/samples did not indicate a significant increase in water quality but it is assumed that as the water level decreased a small amount of sediment was being disturbed and entered the dewatering pipe.

### Remediation Actions

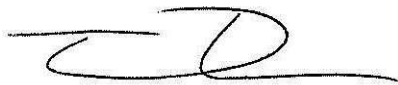
The discharge was stopped and the dewatering pad and dewatering pipe was extended into a deeper portion of the Whale Tail North basin. The water was then recirculated until laboratory results confirmed that dewatering could continue. Dewatering of the Whale Tail North Basin continued on June 22, 2019 through the WTP to Mammoth Lake.

## Corrective measures

As per our dewatering management plan, routine monitoring of TSS & Turbidity will be collected at the water intake pumps daily; in addition, daily visual inspections of the impounded area for sediment slumps or plumes will be completed. Weekly monitoring of the receiving environment will also be conducted as per the Type A Water Licence. Trigger values have been developed with corresponding management action plans; should TSS concentrations in a single grab sample exceeds the short term maximum values, this will trigger a series of actions which includes up to stopping the dewatering.

## Closure

We trust that the above details described appropriately the spill incident that occurred at the Whale Tail site on May 29, 2019 and the cleanup activities. Please contact the undersigned should you have any questions.



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