October 31st, 2019 TSS Monthly Mean Average Concentration Exceedance– MEL-26 Discharge Point Follow Up Report

Please find the following information as a follow-up to the spill report submitted December 11th, 2019, by Agnico Eagle Mines Ltd., Meliadine Division. This detailed report is submitted to the Inspector in compliance with the conditions under the MDMER Section 31 and section 38(7) of the Fisheries Act.

Description of Incident:

Weekly effluent samples at the MEL-26 final discharge point (Figure 1) for treated saline water were taken on October 1st and October 7th, 2019. Due to winter conditions, the discharge to sea ceased October 11th

Total Suspended Solids (TSS) results from these samples were 14 mg/L and 17 mg/L, which are below the MDMER "Maximum authorized concentration in a grab sample" but above the maximum allowable value of 15 mg/L (actual measured value was 15.5 mg/L)

Figure 1: Location of the truck offloading station of treated saline water, and the end of the pipe where discharge enters Melvin Bay.

Figure 2: Locations of SETP and SP3.

Spill Response & Cleanup:

No spill response occurred as the discharge to sea ceased prior to the reception of the second sample which triggered the monthly average exceedance. Prior to start the 2020 sea discharge, Agnico Eagle will perform an effluent characterization and an acute lethality test to ensure that the discharge criteria for deleterious substances are respected and that the discharge is not deleterious.

Table 1: Summary of responses to MDMER section 31 conditions

Condition	Response
(a) the name, description and concentration of the deleterious substance deposited;	Monthly average of 15.5 mg/L of TSS
(b) the estimated quantity of the deposit and how the estimate was achieved;	The volume discharged in October was 4164 m3 and was calculated by a flowmeter
(c) the day on which, and hour at which, the deposit occurred;	Being the monthly average concentration, the deposit occurred during the month of October
(d) the quantity of the deleterious substance that was deposited at a place other than through a final discharge point and the identification of that place, including the location by latitude and longitude and, if applicable, the civic address;	Not applicable. Discharge occurred at authorized discharge point, Mel-26.
(e) the quantity of the deleterious substance that was deposited through a final discharge point and the identification of that discharge point;	The estimated quantity of TSS for the month of October is 64.542 kg. The estimated quantity was achieved by multiplying the monthly average (15.5) by the volume discharged in October (4164 m3) divided by 1000. If only the exceeding quantity should be considered, 2.082 kg of TSS would by the exceeding quantity at the discharge point Mel-26.
(f) the name of the receiving body of water, if there is a name, and the location by latitude and longitude	MDMER FDP MEL-26, Melvin Bay, Arctic Ocean. 545955.56 m E, 6963638.39 m N.

where the deleterious substance entered the receiving body of water;	
(g) the results of the acute lethality tests conducted under subsection 31.1(1) or a statement indicating that acute lethality tests were not conducted but that notification was given under subsection 31.1(2);	Notification was given via a phone call, an e-mail and a spill report. Due to the cessation of the discharge, the acute lethality test will be performed prior the 2020 discharge
(h) the circumstances of the deposit, the measures that were taken to mitigate the effects of the deposit and, if the emergency response plan was implemented, details concerning its implementation; and	The discharge was stopped due to winter condition prior the reception of the second sample that triggered the monthly average discharge criteria
(i) the measures that were taken, or that are intended to be taken, to prevent any similar occurrence of an unauthorized deposit.	An effluent characterization and an acute lethality test will be performed prior to next year discharge. Field turbidity readings will be taken and a follow up with the TSS and Turbidity correlation table to ensure compliance