

## Follow Up Report #18-249

### September 27<sup>th</sup>, 2017 Itivia Surface Water Run-off

#### Description of Exceedance:

During quality control of historic data it was noted that an exceeded of 210mg/L total suspended solids occurred on September 27<sup>th</sup>, 2017. While conducting a routine inspection of the Itivia construction site on June 3<sup>rd</sup>, turbid surface run-off water was observed flowing into Melvin Bay from the quarry towards Melvin Bay. The sampling location is referred to as SR8.



**Figure 1:** Sample location at Melvin Bay foreshore

#### Spill response:

As per the obligations under the Nunavut Water Board License 2AM-MEL1631, Part D, item 18 pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act., samples were collected for laboratory analysis to assess the TSS concentration and other water quality parameters. The laboratory results were received on October 6<sup>th</sup> and showed that TSS concentrations exceeded those outlined in the Type A water license for discharge/release into a water body. The license limit for any grab sample is 100mg/L while the sample analysis reading was 210mg/L.

**Spill Cleanup:**

Straw logs were installed upstream to reduce TSS flow to Melvin Bay.

**Spill Cause and Corrective Measures**

Run-off was caused by snow melting inside and outside the site disturbance area. Due to changes in the topography of the quarry, surface water is directed back towards the approved disturbance area, away from the quarry boundary.