

Follow Up Report: #18-247

June 3rd, 2018 Itivia Surface Water Run-off

Description of Exceedance:

While conducting a routine inspection of the Itivia construction site on June 3rd, turbid surface run-off water was observed flowing into Melvin Bay from the eastern entrance to the bypass road. This is an area of foreshore with a gentle gradient. The sampling location is referred to as SR11.



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 June 21st 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 420mg/L.

Spill Cleanup:

Clean up was not appropriate as surface water run-off diluted into seawater.

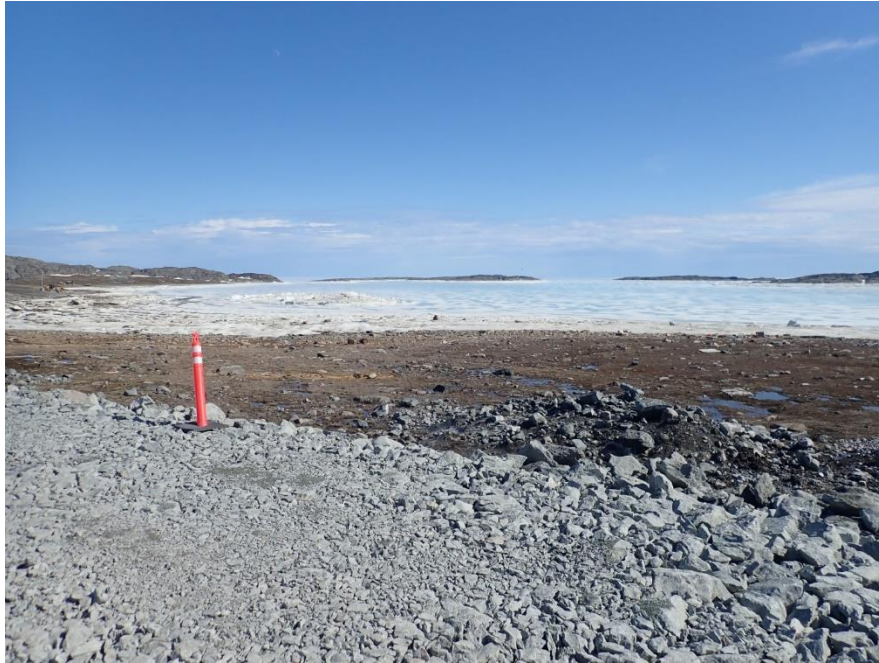
Spill Cause and Corrective Measures

Run-off was caused by snow melting inside and outside the site disturbance area. A sediment trap was created using straw logs prior to the run-off event being sampled. The sediment traps were not effective enough to reduce TSS below acceptable levels. Improving the snow management plan and following the procedure will help reduce run-off volumes in the future.

[*Add a map showing the area and where SR-11 was taken. I think Justin has already produced this map.](#)



Picture 1: Straw log sediment trap between Bypass Road entrance at Itivia and Melvin Bay.



Picture 2: Run-off area from Bypass Road entrance at Itivia to Melvin Bay.



Picture 3: Run-off area from Bypass Road entrance at Itivia to Melvin Bay.