

Kimmirut August 9 2012



August 9-10/12, Kimmirut: Inspection of water licence number 3BM-KIM0911 – *Expired*

Samples taken near the water intake system at Fundo Lake (blue arrow), effluent outfall (yellow arrow) and small pond near the dump (red arrow).

Water Supply: Fundo Lake



- A visual inspection was conducted of the pipeline and intake system at Fundo Lake.
- Samples were collected
- No issues were noted.

Pump House/ Chlorine Treatment Facility



- A visual inspection of the treatment facility was conducted. The chlorine tank was approximately $\frac{3}{4}$ full.
- Chlorine records were noted to be on site but the record was not specific as to what truck was being tested.
- The Inspector also noted oil was being stored in the facility in cardboard boxes.

Sewage Drop Off Site



- The Hamlet of Kimmirut continues to discharge its raw effluent to a ditch in the waste management area. This ditch drains directly to the ocean. This was as issue in previous inspections as well. A new lagoon has been constructed however the safety of the road as well as leakage from the bottom of the new second cell are concerns identified by the Municipality.
- Samples were collected down slope of the ditch (yellow arrow)

Waste Management Area



- Waste oil and other drums (belonging to the housing authority) are on the roadway outside the Municipal Waste Management Area. These are to be removed and stored properly within a lined area. Once removal has been undertaken the site must be remediated with all spilled product removed from site. This was an issue in previous inspections as well.
- Burn and bury area has maintained the practice of covering the recently burned materials with crushed rock and fill from an adjacent source.

Solid/Bulk Waste Management Facility – New



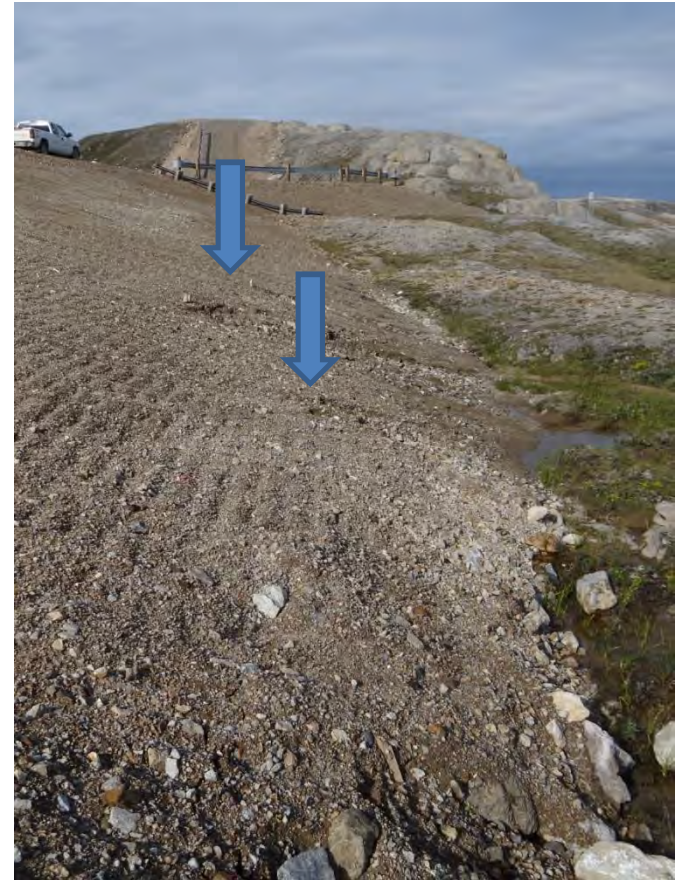
- A visual inspection of the new SWMF was conducted during the inspection. While not yet commissioned old vehicles and other metals and tires were located on site. It is noted that no batteries were present as previously identified in Inspections. Licensee indicated that batteries were being packaged for shipment out of the community on this year's sea-lift.
- The new dump site is located on top of a hill above the city's water supply lake (Fundo Lake). A fence surrounds the site but any wind-blown garbage that's blown off-site may be transported into the lake. (Water treatment facility, blue arrow)

Solid/Bulk Waste Management Facility – New



Potable water/ Pump house indicated by Blue Arrow.

New Sewage Lagoon



- The roadway to the sewage lagoon still remains narrow in some places and this concern was identified by the Licensee.
- It was noted that the 2nd cell is not lined and there is water flowing from under the cell's wall(berm). Evidence of erosion and subsidence of the outside downstream wall of the lagoon were identified by the Inspector and the GN representative during the inspection. This was an issue identified in the 2011 Inspection as well.

New Sewage Lagoon



- Evidence of erosion along the outside wall is identified by the blue arrows.
- Sediment and fine particles were noted in water flowing from the toe of the lagoon wall down grade from the site.