

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

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|--|--|
| Licensee | Licensee Representative |
| City of Iqaluit | Joe Brown |
| Licence No. / Expiry | Representative's Title |
| 3AM-IQA1626 | |
| Land / Other Authorizations | Land / Other Authorizations |
| | |
| Date of Inspection | Inspector |
| May 15, 2020 | Jonathan MESHER |
| Activities Inspected | |
| <input type="checkbox"/> Camp | <input type="checkbox"/> Drilling |
| <input type="checkbox"/> Roads/Hauling | <input type="checkbox"/> Mining |
| | <input type="checkbox"/> Construction |
| | <input type="checkbox"/> Reclamation |
| | <input type="checkbox"/> Fuel Storage |
| | <input type="checkbox"/> Other: Municipality |

Conditions: **A - Acceptable** **C - Concern** **U - Unacceptable** **NA – Not Applicable** **NI – Not Inspected**

| Water Use | Condition | Comment | Site Conditions | Condition | Comment | Haz/Mat Management | Condition | Comment |
|-----------------------|-----------|---------|------------------------------|-----------|---------|------------------------------------|-----------|---------|
| Intake/Screen | NI | | Water Management Structures | U | | Storage | NI | |
| Flow Measure. Device | NI | | Culverts / Bridges | U | | Spills | C | |
| Source: | NI | | Drainage | C | | Spill Plan | NI | |
| Water Use: | NI | | Erosion / Sediment | NI | | | | |
| Recirculation (y /n) | NA | | Mitigation Measures | C | | Administrative | | |
| | | | Reclamation Activities | NI | | Records | NI | |
| | | | Materials Storage | C | | Reports | NI | |
| Waste Disposal | | | Signage | A | | Plans | NI | |
| Waste Water | U | | | | | Notifications | NI | |
| Solid Waste | A | | Monitoring | | | Other | | |
| Hazardous Waste | NI | | Sample Collection / Analysis | NI | | Follow-up from previous inspection | NI | |
| | | | | | | | | |

**The number in the comments field will correspond with specific comments provided below.*

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|---|--------------|
| Samples taken by Inspector: | Location(s): |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |

| | | | |
|-----------|--|---|--|
| SECTION 1 | <input checked="" type="checkbox"/> Comments | <input type="checkbox"/> Non-Compliance with Act or Licence | <input type="checkbox"/> Action Required |
|-----------|--|---|--|

Inspectors Statement

On May 15 2020, a water licence inspection was conducted at the City of Iqaluit Landfill Qikiqtani Region, Nunavut by Water Resource Officer Jonathan Mesher. The City of Iqaluit representatives at the time of the inspection was Joe Brown and Jeff Macmunn.

Observations:

1)

At the time of the inspection the licensee was sucking up ponding water from within the Landfill facility into a vacuum sewage truck and pumping it into the sewage lagoon. There was leachate leaving the facility near the pumping activity. PART E, ITEM 13, states that; “The Licensee shall collect and contain all leachate generated by the West 40 Landfill within the Landfill.” The act of removing this leachate and pumping it into the Sewage Lagoon is prohibited and shall be discontinued imminently.

2)

The pressed sludge from the sewage treatment plant is being deposited into the main garbage pile without segregation.

3)

The inspector identified a spill at the South West corner of the facility, the inspector requested that the licensee representatives remediate the spill identified at the time of the inspection. See photo 1.

4)

The inspector noted leachate leaving the facility on the North East side and the North west side of the landfill. PART E, ITEM 13, states that; “The Licensee shall collect and contain all leachate generated by the West 40 Landfill within the Landfill.” Therefore this leachate leaving the facility is in contradiction of Part E, ITEM 13, The inspector is requesting that the licensee provide a plan to construct the appropriate waste management structures to discontinue this act of non-compliance at the locations identified in figure__ and all other locations where leachate may be leaving this facility. This plan and all structures that come as a result of this request shall comply with PART F and PART G of the licence which give guidance on modifications and the construction of waste and water management structures.

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|---|--|-----------------------------------|---|---|
| SECTION 2 | | <input type="checkbox"/> Comments | <input type="checkbox"/> Non-Compliance with Act or Licence | <input checked="" type="checkbox"/> Action Required |
| <p>The follow is a list of actions required to discontinue potential acts of non-compliance, failure to comply with the following may result in future enforcement actions. The actions required below must be completed in accordance with all terms and conditions of the licence 3AM-IQA1626.</p> <p>a) The licensee is to install the appropriate waste management structures to stop all leachate from leaving the land fill facility. This work is to be completed before September 15, 2020 in order to prevent more waste from leaving this facility in freshet 2021.</p> <p>b) The licensee is to imminently stop taking waste water from the land fill and pumping it into the Sewage Lagoon.</p> <p>c) The licensee is to appropriately remediate the spill identified a the time of the inspection and submit the required information to the Inspector and the NWT/NU 24-Hour Spill Reporting Line as described in PART H of the licence.</p> <p>d) Due to the lack of containment of waste water, the inspector is requesting that the licensee start sampling in the ditches downstream of the areas where leachate is leaving the facility. This sampling is to be conducted by a trained personnel and tested at an accredited laboratory for all the parameters sampled at the sampling location IQA-08. The ability to request additional sampling comes from PART I, item 11 which states; "Additional Monitoring may be requested by the Board and/or the Inspector."</p> <p>Click here to enter text.</p> | | | | |
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| | | | | |
| Inspector's Name | | | | |
| Jonathan Mesher | | | | |
| Signature | | | | |
| | | | | |
| Date | | | | |
| May 22,2020 | | | | |

Jonathan Mesher
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Photo 1; spill identified at time of inspection.





Photo 2: up stream of South East corner of leachate leaving facililty. (approximate flowpath in blue)



Photo 4: leachate leaving facility at SE corner of facility(approximate flowpath in blue)





Photo 5: leachate leaving the South West side of facility.

