

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
City of Iqaluit	NA
Licence No. / Expiry	Representative's Title
3AM-IQA1626	NA
Land / Other Authorizations	Land / Other Authorizations
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Date of Inspection	Inspector
5/20/2021	Jonathan MESHER
Activities Inspected	
<input type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input type="checkbox"/> Roads/Hauling	<input checked="" type="checkbox"/> Other: Landfill
<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
	<input type="checkbox"/> Other:
<input type="checkbox"/> Reclamation	<input type="checkbox"/> Fuel Storage

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	NA		Water Management Structures	C	2	Storage	NA	
Flow Measure. Device	NA		Culverts / Bridges	NA		Spills	NA	
Source:	NA		Drainage	C	2,3	Spill Plan	NA	
Water Use:	NA		Erosion / Sediment	NA				
Recirculation (y /n)	NA		Mitigation Measures	NA		Administrative		
			Reclamation Activities	NA		Records	NI	
			Materials Storage	NA		Reports	NI	
Waste Disposal			Signage	NA		Plans	NI	
Waste Water	C	2				Notifications	NA	
Solid Waste	C	1	Monitoring			Other		
Hazardous Waste	C	5	Sample Collection / Analysis	NA		Follow-up from previous inspection	NI	
*The number in the comments field will correspond with specific comments provided below.								
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
<p>On Thursday May 20th, 2021 I Jonathan Mesher, Crown Indigenous Affairs and Northern Relations Canada Inspector, did perform an inspection of the City of Iqaluit landfill located at West 40 road. During the inspection, the below observations were noted.</p> <p>Observations</p> <p>1. During the inspection there was significant amounts of municipal refuse outside the landfill and along the fencing, see photos 1 and 2 for images of the windblown litter. I am recommending the Licensee utilize the protocols listed below from the City of Iqaluit Landfill Operations and Maintenance Manual.</p> <p>a. In the City of Iqaluit Landfill Operations and Maintenance Manual, section 10.1, the city commits to limiting wind blown litter by the following ways;</p> <p>The first level of litter control involves actions to monitor that loads on vehicles hauling to the site are secured to prevent waste from falling or blowing onto roads leading to the site.</p> <p>The second level of control is applied at the working face by directing vehicles to sheltered areas where possible, and by compacting and covering wastes.</p> <p>The third level of control is retrieving litter that accumulates in site fencing, along roads leading to the site, on the site, or on adjacent lands.</p> <p>The Landfill Foreman is responsible for patrolling and either cleaning or arranging for cleaning of:</p> <ul style="list-style-type: none">• The access road and road leading to the site;• On-site permanent and temporary roads;• The landfill property; and• Adjacent lands around the perimeter of the landfill. <p>Should any loads be “illegally” unloaded along roads leading to the site or at entrance gates or fence lines</p>			



along the property, the waste load should be inspected for any identifying wastes (i.e. addressed envelopes, utility bills, etc.) and the City of Iqaluit Municipal Enforcement Officer should be contacted. This waste must be cleaned up immediately to comply with operating and approval requirements.


2. Outdated information in the City of Iqaluit Landfill Operations and Maintenance Manual.
- a. Section, 9.5 Disposal Area and Working Face states that; “The municipal solid waste disposal area is the largest area at the landfill. Residential, restaurant, institutional, commercial and construction wastes are placed here. The site is surrounded by drainage ditches which contains runoff on-site until the run-off is pumped to the off-site retention pond. This area is also surrounded by berms and fencing to minimize windblown debris.” The municipal solid waste disposal area is not surrounded by ditches or berms, please update this plan or install the ditches and berms described in the plan.

b. The licensee is utilizing an outdated drainage plan from 2011(see photo __ below for drainage used) this plan does not currently capture the activities and organization of the landfill, Please provide a updated drainage plan for the landfill
3. During the inspection there was significant waste in the drainage ditches within the landfill and outside the facility. To prevent to the waste from flowing into the surrounding water bodies, allow the water/waste water to flow through the ditches as intended and to prevent damage to the liner within the facility, the licensee is to clear the solid waste from the ditches within and surrounding the landfill.
4. During the inspection there was pooling within the landfill, one pond near the center of the landfill and one in the metal waste area, both area do not appear to be able to flow to any containment ponds. Section 10.6, of the City of Iqaluit Landfill Operations and Maintenance Manual states the following; “Following are “best management” approaches to minimizing the potential of an animal and insect infestation: • Eliminate areas of ponded water other than designated retention ponds (insects and animals require water”. CIRNAC is recommending that the licensee follow the Operations and Maintenance manual and remove the ponded water.
5. During the inspection the waste paint was stored in in a sea can, the sea can was full of water (snow). the inspector is requesting that the licensee keep the sea cans closed when not in use. See photo

SECTION 2	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
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- 1) The Licensee is to recover the waste from the surrounding lands, water management structures and waterbodies outside the West 40 landfill as required in part E, item 11 which states; “The Licensee shall dispose of and contain all municipal solid waste generated by the City at the West 40 Landfill as associated site(s) authorized under this licence or as otherwise approved by the Board in writing.” A follow up inspection will be conducted 3 weeks after the submission of this report to ensure the ditches surrounding the facility are free of municipal refuse.
- 2) The licensee is to update information in the City of Iqaluit Landfill Operations and Maintenance Manual related to drainage, waste storage areas and all other outdated information as required in Part B, item 10 which states; “The Licensee shall review the Plans referred to in this Licence as required by changes in operation and/or technology and modify the Plans accordingly. Revisions to any Plan shall be submitted in the form of an addendum to be included within the Annual Report required under Part B, Item 1, complete with the lists of revisions detailing where significant content changes are made.” The inspector is requesting the licensee provide a plan by September 1, 2021, to update the outdated information identified in item 2 of this report. This plan needs to be submitted in accordance with guidance provided in Part B of the water licence 3AM-IQA1626.
- 3) The licensee is to provide a plan by September 1, 2021 to remove the waste within the leachate ponds to prevent damage to the liner and a potential leak. Please ensure this plan is submitted in accordance with guidance provided in Part B of the water licence 3AM-IQA1626.

- 4) The licensee is to remove the pooling water from within the landfill and ensure the grade of the facility promotes flow to the containment ponds to minimize animal and insect infestation.
- 5) To prevent the mixing of paints and other hazardous wastes with water the inspector is recommending that the licensee keep sea cans used for storage of hazardous waste closed when not in use.

Inspector's Name	
Jonathan MESHER	
Signature	
	
Date	
April 28, 2021	

Water Resource Officer, Nunavut Region
Crown Indigenous Relations and Northern Affairs Canada – CIRNAC
Jonathan.mesher@canada.ca
Office #: 867-222-0118
Fax: 867 979-6445

Date	Camera	Inspector	Authorization
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626

Photo Log

Photo 1



Description: wind blown litter outside of the landfill in a water management structure.



Date	Camera	Inspector	Authorization
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626

Photo Log

Photo 2

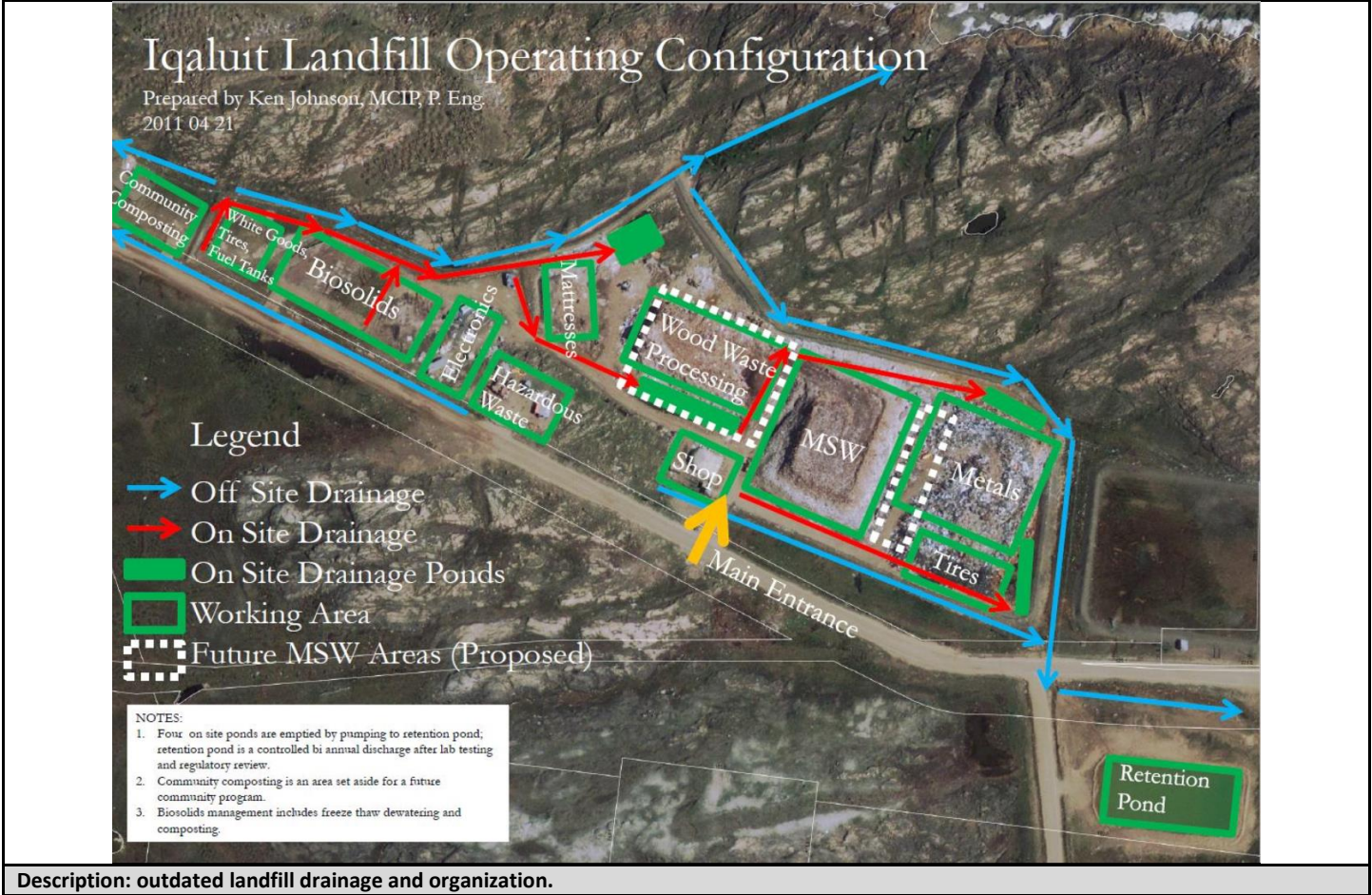


Description: wind blown litter across the street of the landfill.

Date	Camera	Inspector	Authorization
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626

Photo Log

Photo 3



Date	Camera	Inspector	3am
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626
Photo Log			
Photo 4			
			
Description: East side of landfill leachate containment pond.			

Date	Camera	Inspector	3am
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626
Photo Log			
Photo 4			



Description: West side of landfill of landfill leachate containment pond

Date	Camera	Inspector	3am
March 31, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626

Photo Log

Photo 4



Description: pooling water within metal side of landfill.

Date	Camera	Inspector	3am
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626

Photo Log

Photo 4



Description: pooling water with no apparent ability to drain to the containment ponds.

Date	Camera	Inspector	3am
May 20, 2021	Samsung S8 work cell phone	J.Mesher	3AM-IQA1626
Photo Log			
Photo 4			



Description: used paint storage.