

**WATER LICENCE INSPECTION FORM**☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Community and Government Services	Megan Muckpah-Gavin
Licence No. / Expiry	Representative's Title
3AM-GRA1631	Municipal Technical Officer
Land Authorization No. / Expiry	Land Authorization Expiry
NA	NA
Date of Inspection	Inspector
July 20, 2022	WRO. Kyle Amsel
Activities Inspected	
<input type="checkbox"/> Camp <input type="checkbox"/> Drilling <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input type="checkbox"/> Fuel Storage <input type="checkbox"/> Roads/Hauling <input checked="" type="checkbox"/> Other: Municipal <input type="checkbox"/> Other:	

SECTION 1	<input checked="" type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
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On July 20, 2022 Water Resources Officer Kyle Amsel (Inspector) a duly appointed Inspector under the *Nunavut Waters and Surface Rights Tribunal Act* (Act) conducted an Inspection of Water Licence 3AM-GRA1631 (Licence). The Inspection was conducted to ensure compliance with the Act and the Licence.

The Inspector was accompanied by Municipal Technical Officer Meagan Muckpah-Gavin, and Facilities Manager Steve Fitzpatrick (Representatives).

This report was produced based on the observations made by the Inspector and information provided by the Representatives.

Preliminary Information

The annual report was available for review as required by the Licence Part B Item 1.

Observations

- At Lower Landing Lake pumping station (GRA-7) (Photo 1)
 - This pumping station is used to replenish Nipissar Lake.
 - Representatives stated a screen is on the end of the pipe satisfying Part D Item 6 of the Licence.
 - A flow meter is present with a total amount and an hourly rate. At 0913hrs the meter read 243,794m³ and an hourly rate of 230m³/hr satisfying Part B Item 4 of the Licence. Extrapolated, the pump may pump 5,520m³/day not exceeding the limits in Part D Item 4 of the Licence. (Photo 2)
 - Signage is not present at the site failing to comply with Part B Item 5 of the Licence.
 - Representatives explained the water level of Lower Landing Lake is checked with the use of a rotary laser transit placed on a benchmark and a receiver on a grade rod to measure the height of Lower Landing Lake. The Lake level is taken at the beginning of the season and weekly until pumping from Lower Landing is completed. This satisfies Part J Item 7 of the Licence.
- Nipissar Lake Water intake (GRA-5) (Photo 3)
 - This pumping station is used to supply water to the Hamlet of Rankin Inlet.
 - A Flow meter is present with total amount and hourly rate. At 0929hrs the meter read 6,418,950m³ and an hourly rate of 76.58m³/hr. (Photo 4)
 - Representatives stated a screen is on the end of the pipe satisfying Part D Item 6 of the Licence.
 - Representatives stated a concrete pad is in place at the discharge point where the pipeline from Lower Landing Lake discharges into Nipissar Lake satisfying Part D Item 9 of the Licence.
 - Lake level is measured in the same way as Lower Landing Lake, with the use of a rotary laser transit and stake with a receiver. This satisfies Part J Item 7 of the Licence.
- Water Treatment Plant
 - Here water is received from Nipissar Lake, treated, then pumped to the residences and buildings inside the community.
- Johnson Cove Lift Station
 - Here sewage from the buildings in it's vicinity is pumped to the sewage treatment plant



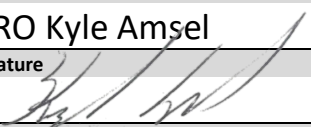
- b. Spill 2021-200 occurred in 2021 at this location. The site is remediated to the satisfaction of the Inspector.
5. Sewage Treatment Plant
- a. Here raw sewage has sludge and larger particulate removed. The sewage is then discharged into the marine environment.
- b. GRA-3 is not signed to the satisfaction of the Inspector as the writing is fading and not clearly legible. (Photo 5)
6. Overall facilities appeared maintained.
7. On July 25, 2022 Representative Steve Fitzpatrick showed the Inspector the monitoring stations which were missing signage. The signage was posted appropriately and meets the requirement of Part B Item 5 of the Licence. (Photo 6)

SECTION 2 ☐ Comments (s.__) ☒ Non-Compliance with Act or Licence (s.2) ☐ Action Required (s.__)

Licence

No failures to comply under the Licence.

SECTION 3 ☐ Comments (s.__) ☐ Non-Compliance with Act or Licence, (s.__) ☒ Action Required (s.3)

Licensee or Representative	Inspector's Name
Megan Muckpah-Gavin	WRO Kyle Amsel
Signature	Signature
	
Date	Date
	August 2, 2022

Office Use Only: Follow-up report to be issued by Inspector ☐ Yes ☒ No



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
July 20, 2022	3AM-GRA1631	Sony DSC-HX50V	WRO. Kyle Amsel

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 1	



Description:
Water Intake Line from Lower Landing Lake. GRA-7



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 2



Description:

Water meter at GRA-7, Lower Landing Lake.



Photo No.

Photo 3

Lat/Long (DD.MM.SS.SS, NAD83)

N 62° 49' 24" W 92° 06' 50"



Description:

Nipissar Pump House.



Photo No.

Photo 4

Lat/Long (DD.MM.SS.SS, NAD83)



Description:

Water Meter at Nipissar Lake and monitoring log.



Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 5	
	
Description:	
GRA-3 water sampling point inside the sewage treatment plant.	



Photo No.

Photo 6

Lat/Long (DD.MM.SS.SS, NAD83)



Description:

GRA-3 signed by representative and shown to Inspector On July 25, 2022.