

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

Licensee	Licensee Representative
Hamlet of Baker Lake	Sheldon Dorey
Licence No. / Expiry	Representative's Title
3BM-BAK1526/December 6, 2026	Senior Administrative Officer
Date of Inspection	Inspector
September 15, 2022	WRO. K 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 Undertaking <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 September 15, 2022 Water Resource Officer Kyle Amsel (Inspector) of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) conducted an Inspection of Water Licence 3BM-BAK1526 (Licence). The Licence is issued to the Hamlet of Baker Lake for the use of water and deposit of waste for a Municipal Undertaking.

This regularly scheduled Inspection was conducted to ensure compliance with the applicable terms and conditions of the Licence and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*.

Accompanying the Inspector was, Senior Administrative Officer Sheldon Dorey and Community and Government Services representative Municipal Technical Officer Megan Makpah-Gavin. The aforementioned are here on referred to as Representatives.

Preliminary Information

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

Observations

- Fresh water intake facilities (BAK-1)
 - A pump operator familiar with the facility verified a screen is installed on the fresh water intake located in Baker Lake satisfying Part B Item 3 of the Licence.
 - A flow meter is installed on the raw water intake (photo 1). Representatives were not sure if the reader measured total volume. At 1523hrs a separate electronic system read 63,790.0, though no unit of volume was on the display and the pump operator indicated that the system resets during a power outage. This box was labelled "FT00"
 - No sign was observed denoting "BAK-1" which is non-compliant with Part B Item 4 of the Licence.
 - As of September 23, 2022 water usage totalled 36,678m³.
- Solid Waste Disposal Facility (SWDF)
 - The SWDF is well maintained and surrounded by fencing which contains the waste within (photo 2).
 - Representatives stated a full time dump monitor has been employed by the Hamlet.
 - Representatives are hoping to remove scrap steel from the SWDF next sealift season.
 - Household garbage is restricted to the East end of the SWDF.
 - Appliances, waste oil, batteries, etc are all segregated satisfying Part D Item 7 of the Licence. The volume of waste oil, batteries and propane tanks is negligible due to a good backhaul program. (photo 3)
 - Representatives stated a waste oil container is typically left outside the SWDF for after hours deposit of waste oil by the community.
- Sewage Facilities
 - The sewage facilities use a berm structure to capture sewage as it is deposited by pump truck. The freeboard of this structure was estimated at 15cm. This is non-compliant with Part D Item 3 of the licence. (photo 4)
 - Last point of control is near the SWDF. It appears the berm may have been breached at some point. Additional culvert installed and washout repaired with large rock.
- Generally
 - No sampling station signs were observed. This is non-compliant with Part B Item 4 of the Licence.

On September 16, 2022 the Inspector took compliance samples at BAK-5. Coordinate N64° 19' 47.1' W95° 59' 49.7" at 1540hrs. The samples were shipped to analyse for BOD, TSS and Fecal Coliforms. A pH strip was used at BAK-5, and resulted in a reading of



approximately 6. Test results for BOD and TSS were within criteria, Fecal Coliforms results were inconclusive. (appendix A)

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

Licence

- Part B Item 4, the Licensee shall post necessary signs to identify monitoring stations.
- Part D Item 3, the licensee shall maintain a freeboard of 1m at all dams, dykes, or structures intended to withhold, divert or retain water or waste.

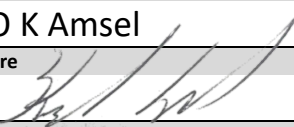
SECTION 3 ☐ Comments (s.____) ☐ Non-Compliance with Act or Licence, (s.____) ☒ Action Required (s.3)

The licensee shall:

- Prepare and Install signage.
- Ensure a freeboard of 1m at all dams, dykes, or structures intended to withhold, divert or retain water or waste.

Licence Notification

1. The sampling stations BAK-2 to BAK-5 for the Baker Lake water Licence were noted to have incorrect GPS coordinates as provided by the Representatives. Also, representatives provided a map with sampling points printed thereon which had BAK-2 and BAK-3 switched from that stated per Part H Item 1 of the Licence. The Inspector took GPS coordinates and photographs at BAK-2 to BAK-5 and is hereby advising the Representatives and the Nunavut Water Board of these changes as follows:
 - a. BAK-2 N64° 19' 14.8" W95° 58' 29.6", this sample point is defined in Part H Item 1 of the Licence as "Runoff from the Sewage and Solid Waste Disposal Facilities just prior to the inlet to Airplane Lake, prior to the culvert". The point has been moved to the downstream end of the culvert to improve longevity of the signage and provide a safer location for sampling without affecting monitoring objectives. (photo 5).
 - b. BAK-3 N64° 18' 59.5' W95° 58' 30.7", (photo 6).
 - c. BAK-4 N64° 19' 42.8" W95° 59' 37.9" (photo 7&8) This location is at a small culvert at the lowest point in the SWDF.
 - d. BAK-5 N64° 19' 47.1' W95° 59' 49.7" (photo 9)

Licensee or Representative	Inspector's Name
Sheldon Dorey	WRO K Amsel
Signature	Signature
	
Date	Date
September 28, 2022	September 28, 2022

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



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
September 15, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 1	No Available		



Description:

Water flow meter installed at freshwater facilities BAK-1.




Date:	Authorization Number:	Camera/Model:	Inspector
September 15, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 2	No Available		



Description:

Solid Waste Disposal Facilities sorrounded by fencing.



Date:	Authorization Number:	Camera/Model:	Inspector
September 15, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 3	No Available		
			
Description:			
Extent of all hazardous materials at the Solid Waste Disposal Facilities.			



Date:	Authorization Number:	Camera/Model:	Inspector
September 15, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 4	No Available		



Description:

Sewage outfall facilities. Bermed sewage lagoon in center/left of photo. Berm has minimal freeboard. Wetland sewage treatment area in background.



Date:	Authorization Number:	Camera/Model:	Inspector
September 16, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 5	No Available		



Description:
New Location of BAK-2, arrow denotes sample location and area where signage is required.



Date:	Authorization Number:	Camera/Model:	Inspector
September 16, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 6	No Available		



Description:

Location of BAK-3, arrow denotes sample location and area where signage is required. Photo facing West towards Baker Lake (community) on road to Agnico Eagle Gold Mine sealift area.



Date:	Authorization Number:	Camera/Model:	Inspector
September 16, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 7	No Available		



Description:

Location of BAK-4, arrow denotes sample location and area where signage is required. A small culvert is in this location where samples should be collected.



Date:	Authorization Number:	Camera/Model:	Inspector
September 27, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 8	No Available		
			
Description:			
Location of BAK-4, arrow denotes sample location.			



Date:	Authorization Number:	Camera/Model:	Inspector
September 16, 2022	3BM-BAK1526	Galaxy S9	WRO K AMSEL
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 9	No Available		



Description:

Location of BAK-5, arrow denotes sample location. Signage may be installed on existing fence post or where red arrow denotes.



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Version: FINAL

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