



Telephone: 867-587-7202

Fax: 867-587-2928

June 28, 2023

Town Of Norman Wells
P.O. Box 5, 3 Mackenzie Drive
#29 Mackenzie Drive
Norman Wells, NT X0E 0V0

Attention: Cathy Clarke, SAO

File Number S18L3-003
Type of Operation CLASS B - MUNICIPAL
Location Norman Wells, NT

Dear Cathy Clarke, SAO,

An inspection of the Spill Event #2023232 was conducted on June 01, 2023, by A/Manager, Resource Management (Inspector) Meagan Betts and Manager, Wildlife and Environment Laurel McDonald.

Enclosed is a copy of the MUNICIPAL Water Use Inspection Report. Your attention to the matters for follow up is appreciated.

If you have any questions, please contact the undersigned at 867-587-7202.

Sincerely,

Meagan Betts
A/Manager, Resource Management
Department of Environment and Climate Change, Land and Water Division
Sahtu Region

Cc: Sahtu Land and Water Board
Trevor Bremner- Regional Superintendent, Department of Environment and Climate Change, Land and Water Division, Sahtu Region
Laurel MacDonald- Manager, Wildlife and Environment, Department of Environment and Climate Change, Wildlife and Forestry Division, Sahtu Region



WATER USE INSPECTION REPORT

LICENCE #:	S18L3-003	EXPIRY DATE:	November 18, 2028
LICENCEE:	Town Of Norman Wells	PREVIOUS INSPECTION:	May 24, 2023
COMPANY REP:	Cathy Clarke, SAO	INSPECTION DATE:	June 01, 2023

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

C &R Plan	N/A	Records & Reporting	U	Final Report	N/A
Geotechnical Inspection	N/A	Posting, Signage	N/I	Contingency Plan	N/A
Restorations Activities	N/A	Spills	U	O&M Plan	N/A
Maintenance	N/A	Modifications	N/A	Annual Report	N/A

General Condition Comments:

The Department of Environment and Climate Change (ECC) received a report from the NT/NU Spill Report Line of a spill associated with the Town of Norman Well’s Municipal Water Licence (WL) S18L-003 on June 1, 2023 (Appendix A). Spill #2023232 was reported to both the NT/NU Spill Report Line and an Inspector immediately by the Public Works Manager, Lucas NADEAU, with the Town of Norman Wells. The report listed an occurrence time and date of 11:06 on June 1, 2023. The report states that the cause of the spill was an “incompetent user” and identified Tabhr Dunn and Brandon Cormier with HRN Contracting as the responsible party. The NT/NU Spill Report identified bags containing flakes of calcium chloride as the spill source; the quantity of product was recorded as unknown, and the area of contamination was recorded as 15 cubic metres.

NADEAU provided the in-person verbal notification of the event to an Inspector at 11:45 at the ECC Land and Water Division office. NADEAU explained that HRN has been dumping dust suppressant (calcium chloride) at the Solid Waste Disposal Facility (SWDF) despite multiple warnings from the Town of Norman Wells. NADEAU informed Officer BETTS (Inspector) that the Town was unsure if this event should be considered a spill or a potential spill as the product of concern (calcium chloride) was believed to be contained, however, there was concern that some of the product could have been released into the environment. NADEAU explained to Officer BETTS that there was concern that this product could cause harm to personnel, the environment, and/or the facility if it was not handled correctly. NADEAU shared concerns with HRN’s disposal method for the dust suppressant and explained that when the product is exposed to water it produces heat. There was concern that the exothermic reaction could be harmful to landfill users, employees, or even the facility if the excessive heat from this product resulted in the combustion or ignition of other waste in the landfill. NADEAU explained that there is a high potential for the dust suppressant to come in contact with rainwater with the disposal method HRN continues to take.

The spill was assigned to Appointed Water Resource Officer (Inspector) Meagan BETTS on Thursday, June 1, 2023. An Environmental Protection Officer from ECC Wildlife and Forestry Division was engaged because the migration of a dust suppressant from roadways is deemed a violation of the *Environmental Protection Act*. Officer BETTS was accompanied to the site of concern by ECC Manger of Wildlife and Environment (Appointed Environmental Protection Officer), Laurel MCDONALD. Officer BETTS and MACDONALD were joined by NADEAU as well as Matthew SHORT—Maintenance Support Worker—with the Town of Norman Wells at 15:25 at the SWDF on June 1, 2023. Any violations under the *Environmental Protection Act* are outside the scope of this Inspection Report, however, the previously named Environmental Protection Officer committed to following up on this matter independently.



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While on site the SWDF worker explained that the Town removed the product from the bins and that to their knowledge, no product was spilled. The overall quantity of improperly disposed of material is expected to be less than what was reported, however, they were unable to quantify the volume. It was noted that the garbage bin (Figure 1) was filled by HRN with the dust suppressant waste product, however, no pictures taken by the Town have been shared with an Inspector to date. The Town relocated the calcium chloride into a heavy duty woven polypropylene bag and relocated it into the hazardous waste storage cell at the SWDF (Figure 2).

The Lessee is expected to meet the conditions outlined in WL S18L-003 and operate in accordance with all approved plans. It is the responsibility of the Town of Norman Wells to ensure the disposal of solid waste at the SWDF is in accordance with the approved Solid Waste Disposal Facility Operation and Maintenance Plan. Section 8.3 of the *Solid Waste Disposal Facility, Norman Wells, NT "OPERATIONS & MAINTENANCE MANUAL"* the Town committed to establishing rules and educating landfill users to prevent situations such as improper waste disposal from occurring. If the Town feels the education programs and signage for landfill users has been sufficient and some users are intentionally ignoring rules the Town should consider enforcing the Solid Waste Management By-Law (BY-LAW NO. 20-06).

During the inspection the Inspector determined that there are no concerns with how this site was remediated. The Town of Norman Wells responded to this spill in a timely manner and acted in accordance with their Spill Contingency Plan. Once the Inspector receives a detailed report, as outlined in Part H- Condition 3(d) of WL S18L-003 within 30 days of the incident, the status of Spill #2023232 will be changed to "Closed-Remediated" on the ECC Spill (NT-NU Spill Line) Database. Please note that the detailed report for this event is required by June 30, 2023.

As identified in the previous spill reports under this Water License, there are matters that require follow up from the Town of Norman Wells no later than July 1, 2023.

MATTERS FOR FOLLOW UP

Direction given by Officer BREMNER on May 26, 2023, and Officer BETTS on June 14, 2023, in the "MATTER FOR FOLLOW UP" section of previously circulated Inspection Reports have yet to be fully rectified. In order to be in compliance with WL S18L-003 the Town must:

- Provide detailed records on all spill events identified by Officer BREMNER to both the Board and an Inspector
- Provide copies of logs taken that show visual inspections of the utilidor are being conducted as well as the maintenance currently pending for the line.
- Update the Board with the new contact information and any other operational changes to any plans associated with WL S18L-003.
- Commit to notifying the Board as well as an Inspector within 24 hours of a spill event
- Ensure all spills that are associated with this WL are captured in the Annual Water Licence Report in addition to the ECC (NT-NU Spill Line) Database.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Until the issues identified on May 26, 2023, by Officer BREMNER are addressed the Licensee remains in non-compliance with the following Water Licence conditions:

- Part H- Condition 2
- Part H- Condition 3 (c)
- Part H- Condition 3 (d)

As indicted in the last Inspection Report, the Town of Norman Wells continues to make progress with responding to spills. The Town of Norman Wells notified the Inspector of Spill #2023232 immediately, however, it continues to be unclear whether or not the Board is being notified within 24 hours of spill events. The Inspector believes the Town can be in compliance with WL S18L-003 provided the points identified in

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“MATTER FOR FOLLOW UP” section are addressed in the near future. It is strongly recommended that the Town of Norman Wells contact the ECC- Land and Water Division if there are issues with meeting the July 1, 2023, timeline identified by Officer BREMNER and/or providing a detailed report of Spill #2023232 prior to June 30, 2023, to the Inspector.

Inspector’s Signature: Megan Bell



WATER USE INSPECTION REPORT

INSPECTION IMAGES

Figure 1

Waste bin where the calcium chloride was disposed off after the Town removed the product of concern.

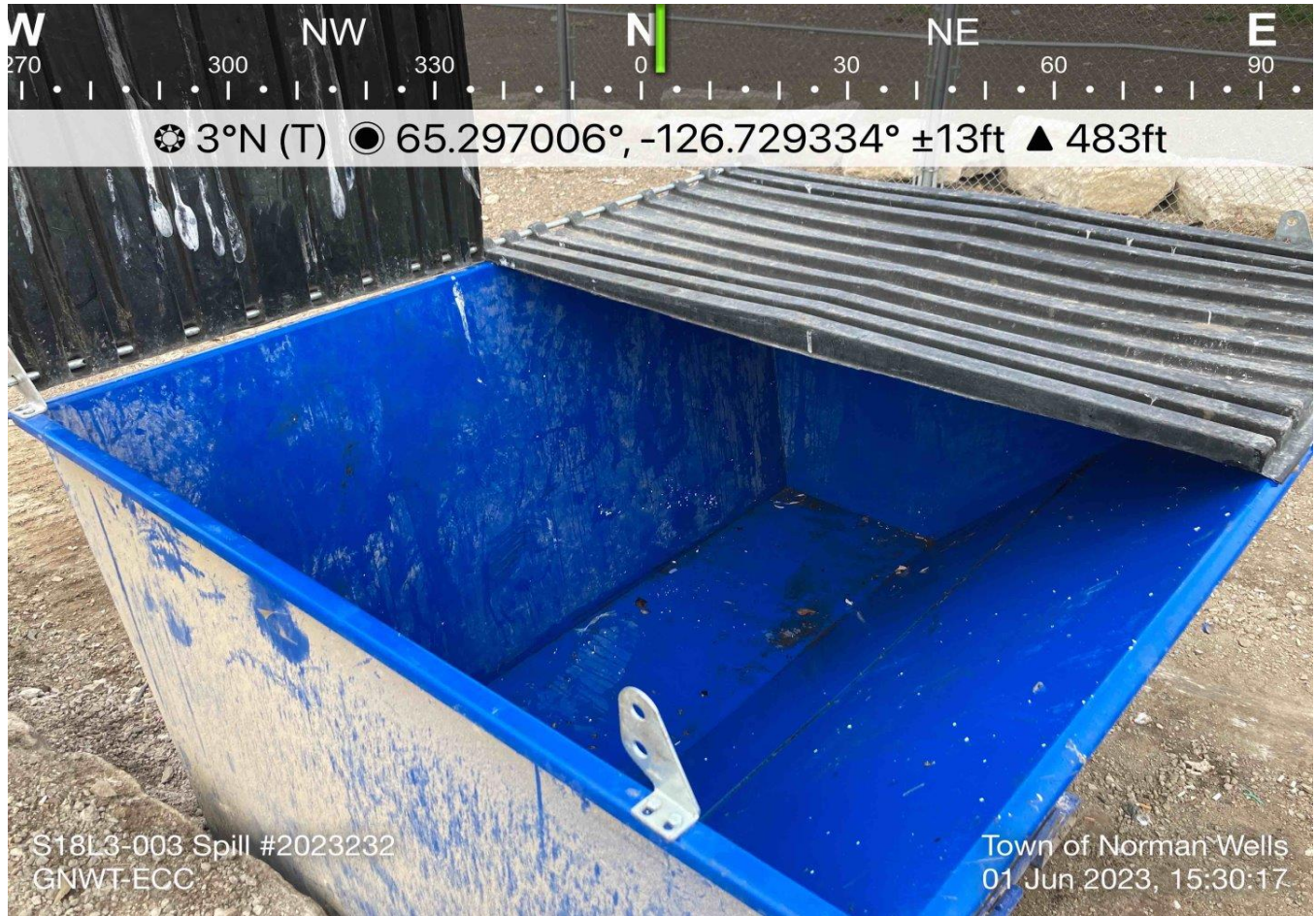


Figure 2

Calcium chloride product in the heavy duty woven polypropylene bag located in the hazardous waste cell at the SWDF.





WATER USE INSPECTION REPORT Appendix A

Spill Report submitted by the Town of Norman Wells following Spill #2023232

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS



NT-NU 24-HOUR SPILL REPORT LINE
Tel: (867) 920-8130 • Fax: (867) 873-6924 • Email: spills@gov.nt.ca

REPORT LINE USE ONLY

A	Report Date: 06 01 23	Report Time: 11:05 am	<input checked="" type="checkbox"/> Original Spill Report	Report Number:
B	Occurrence Date: 06 01 23	Occurrence Time: 11:06 am	<input type="checkbox"/> Update # _____ to the Original Spill Report	
C	Land Use Permit Number (if applicable):	Water Licence Number (if applicable): S18L3-003		
D	Geographic Place Name or Distance and Direction from the Named Location: Norman Wells Solid Waste Disposal Facility		Region: <input checked="" type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean	
E	Latitude: _____ Degrees _____ Minutes _____ Seconds		Longitude: _____ Degrees _____ Minutes _____ Seconds	
F	Responsible Party or Vessel Name: Tabhr Dunn & Brandon Cormier		Responsible Party Address or Office Location:	
G	Any Contractor Involved: HRN Contracting		Contractor Address or Office Location: 65 MacKenzie Dr, Norman Wells, NT	
H	Product Spilled: <input type="checkbox"/> Potential Spill Calcium Chloride Flakes	Quantity in Litres, Kilograms or Cubic Metres: Unknown	U.N. Number:	
I	Spill Source: Bags of calcium chloride flakes	Spill Cause: Incompetent user	Area of Contamination in Square Metres: 15 cubic meters	
J	Factors Affecting Spill or Recovery: Weather Conditions	Describe Any Assistance Required:	Hazards to Persons, Property or Environment: Heat is generated when mixed with water. Serious eye irritation. Skin irritation. Harmful if swallowed.	
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: Bags of calcium chloride flakes dumped into the norman wells SWDF transfer station bins			
L	Reported to Spill Line by: Lucas Nadeau	Position: Public Works Manager	Employer: Town Of Norman Wells	Location Calling From: Norman Wells
M	Telephone: (867) 688-0682	Any Alternate Contact:	Position:	Employer:
	Alternate Contact Location:	Alternate Telephone:		

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
	Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA	Significance: <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Unknown		File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed	
	<input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____				
	Agency:	Contact Name:	Contact Time:	Remarks:	
	Lead Agency:				
	First Support Agency:				
	Second Support Agency:				
	Third Support Agency:				