

# 2025 BAF-3 ANNUAL NUNAVUT WATER BOARD REPORT

## FOR THE NORTH WARNING SYSTEM

Contract # W8485-157352/001/NX  
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## EXECUTIVE SUMMARY

This 2025 Annual Report for the Nunavut Water Board (NWB) has been prepared by Nasittuq for the Department of National Defence (DND) in order to meet the requirements of Part B “General Conditions”, paragraph 1 of its licence 8BC-BAF1929 issued on 01-Sep-2019. This report covers 01 January to 31 December 2025.

Nasittuq is the Operations and Maintenance (O&M) Contractor for the North Warning System (NWS), including BAF-3, the North Warning System (NWS) radar site located on Brevoort Island, Nunavut. The site transitioned to fully attended in 2022 and is now staffed year-round.

970.1 cubic meters of water was drawn from the water supply lake in 2025. This is below the annual maximum of 3,000 cubic meters allowed by the current licence.

Fuel tanks within the berms were demolished in 2012 and 2013, and the berms were intentionally breached in 2012 and 2015. No effluent (berm water) samples were taken in 2025. This monitoring point was discontinued in licence 8BC-BAF1929.

Hazardous waste, including waste oil, from BAF-3 will be shipped to an approved hazardous waste disposal facility outside of Nunavut in 2025.

Non-hazardous domestic solid waste was incinerated on site or flown out to the Logistics Support Site (LSS) in Iqaluit and disposed of at Iqaluit’s landfill. Nasittuq has documented authorization from the community for receiving the waste.

Three spills to the environment occurred at BAF-3 in 2025:

The Spill Contingency Plan was successfully implemented.



## 1.0 INTRODUCTION

This 2025 Annual Report for the Nunavut Water Board (NWB) has been prepared by Nasittuq for the Department of National Defence (DND) in order to meet the requirements of Part B “General Conditions”, paragraph 1 of its licence 8BC-BAF1929 issued 01 September 2019, and amended effective 14 April 2022. The amendment now allows for 3,000 cubic metres per year.

This report covers 01 January to 31 December 2025.

Nasittuq is the Operation and Maintenance (O&M) Contractor for the North Warning System (NWS), including BAF-3, the NWS radar site located on Brevoort Island, Nunavut. The site transitioned to fully staffed in 2022 and is now staffed year-round.

### 1.1 Report Details

Licensee:	Department of National Defence, Government of Canada
Licence:	8BC-BAF1929 – Type “B”
Location:	BAF-3 North Warning System Site, Brevoort Island, Qikiqtani Region, Nunavut
Report Prepared by:	Alaina Leslie and Reviewed by Don Beattie Nasittuq Corporation, 16-Mar-2026
Time period covered:	01 January to 31 December 2025

## 2.0 WATER USE

**970.1** cubic metres of water was drawn from the water supply lake in 2025. This is below the annual maximum of 3,000 cubic metres (299 cubic metres daily) allowed by the current licence. A maximum of **142.4 cubic metres** per day was drawn from the water supply lake. See Table 2-1 for the volume of water drawn at BAF-3 in 2024.

**Table 2-1: Monthly Raw Water Usage at BAF-3 in 2024**

Month	Raw water usage (m <sup>3</sup> )
January	0
February	0
March	0
April	0
May	0
June	0
July	0
August	105.1
September	865.0
October	0
November	0
December	0
<b>Total</b>	<b>970.1</b>

### 3.0 HAZARDOUS WASTE AND WASTE OIL DISPOSAL

The movement of hazardous waste outside of Nunavut is regulated under both the *Transportation of Dangerous Goods Regulations* (TDG) and the *Cross-border Movement of Hazardous Waste and Hazardous Recyclable Material Regulations* (XBR).

Hazardous waste, including waste oil, from BAF-3 were packaged to be sent to an approved hazardous waste disposal facility outside of Nunavut as required by the licence. Waste is outlined in the table below.

**Table 4-1: Hazardous Waste and Waste Oil Sent for Disposal from BAF-3 in 2025**

TDG shipping name	Description	Manifest # (TCN)	Movement Document	Quantity
Not Regulated	Waste Scrap Metal Not TDG Regulated	49049, 49356, 51115	UM-01476-1	8 Crates
Waste Batteries, Wet, Filled With Acid	Waste batteries, wet, filled with acid	49038, 49370	UM-01476-1	2 Crates
Waste Batteries, Wet, Non-Spillable	Waste batteries, wet, non-spillable	49327	UM-01476-1	1 Crate
Not Regulated	Waste Ash Not TDG Regulated	49367, 51115, 51115, 51179, 51774, 49287, 49287, 49287, 49358	UM-01476-1	11 Drums
Not Regulated	Waste cooking oil Not TDG Regulated	49286, 49286, 49330, 51177, 51774	UM-01476-1	5 Drums
Not Regulated	Waste glycol (drum) Not TDG Regulated	51114, 51177, 51179	UM-01476-1	4 Drums
Not Regulated	Waste Oil and Water Mixture	51756	UM-01476-1	4 Drums
Not Regulated	Waste oil filters Not TDG regulated	49367, 51115	UM-01476-1	2 Drums
Not Regulated	Waste oil Not TDG regulated	49286, 49330, 49354, 51114, 51114, 51114, 51177, 51757	UM-01476-1	14 Drums
Waste Fuel, Aviation, Turbine Engine	Waste Fuel, Aviation, Turbine Engine	51179, 49333	UM-01476-1	2 Drums
Waste Fuel, Aviation, Turbine Engine Mixture	Waste Fuel, Aviation, Turbine Engine Mixture	49355, 51758	UM-01476-1	6 Drums

Waste Fuel, Aviation, Turbine Engine Mixture	Waste tank bottom water/ tank cleaning effluent  Waste fuel, aviation, turbine engine mixture	49355, 49332, 49332, 49332, 49332, 49333, 49333, 49333, 49334, 49334, 49334, 49335, 49335	UM-01476-1	14 Drums
Waste paint, flammable	Waste paint	49368	UM-01476-1	12 Drums
Waste Solids Containing Flammable Liquid, N.O.S. (Fuel, Aviation, Turbine Engine)	Waste Jet A1 fuel fuel filters  Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	49358	UM-01476-1	1 Drum
Waste Solids Containing Flammable Liquid, N.O.S. (Fuel, Aviation, Turbine Engine)	Waste oily rags  Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	49328, 49328, 51774, 49358, 49358	UM-01476-1	6 Drums
Not Regulated	Waste grease (pail)	49286	UM-01476-1	1 Pail
Not Regulated	Waste oil  Not TDG regulated	49350	UM-01476-1	36 Pails
Waste paint, flammable	Waste paint	49031	UM-01476-1	1 Pail

#### 4.0 NON-HAZARDOUS SOLID WASTE DISPOSAL

Most of the non-hazardous domestic waste was incinerated on-site and the waste ash was containerized in drums and shipped south.

Some non-hazardous domestic solid waste was flown out to the Logistics Support Site (LSS) in Iqaluit and disposed of at Iqaluit’s landfill. Nasittuq has documented authorization from the community for receiving the waste.

See Table 4-1 for the quantity of waste generated.

**Table 4-1: Non-hazardous Domestic Solid Waste Sent for Disposal from BAF-3 in 2025**

Month	Waste Generated (kg)
January	374
February	655
March	760
April	1032
May	660
June	831
July	386
August	794
September	499
October	585
November	689

Month	Waste Generated (kg)
December	760
<b>TOTAL</b>	<b>8025</b>

## 5.0 MONITORING PROGRAM

In 2025, a monitoring program was implemented at BAF-3 as required by the water licence, Part J. The monitoring program included the following:

1. Volume of raw water drawn from the water Supply Lake (BAF-1). The information gathered from this requirement is shown in **Section 2.0 Water Use**. The volume of water drawn was within the limit stated in the water licence.
2. Quality of sewage discharged from the final discharge point of the sewage disposal facility (BAF-2). The location of the sewage effluent outfall is shown in **Annex C: Sewage Effluent Outfall (BAF-2) Location with Coordinates**. A sump for the sewage outfall was constructed in 2010. **Analysis of Discharged Sewage Effluent** is shown in **Annex D**.
3. Final Discharge Point from the Landfarm Facility (BAF-3). (inactive).
4. Final Discharge Point of the Bulk Fuel Storage Facility (BAF-4). Fuel tanks within the berms were demolished in 2012 and 2013, and the berms were intentionally breached in 2012 and 2015. As there are no intact berms, sampling location BAF-4 has been discontinued in licence 8BC-BAF1929. **Analysis of Berm Water** has been left blank.
5. Groundwater monitoring activities (BAF-5). Responsibility for groundwater monitoring of the 19-Mar-2015 Jet A1 spill is to be determined by DND.

## 6.0 SPILLS (UNAUTHORIZED DISCHARGES)

Three spills to the environment occurred at BAF-3 in 2025. Table 6-1, below, describes the spill (unauthorized discharge) details.

The Spill Contingency Plan was successfully implemented.

**Table 6-1: Unauthorized Discharges at BAF-3 in 2025**

Date, NT-NU Spill #	Product	Quantity	Cause and follow-up action	On-site location
22-Apr-2025, Spill # NTNU 2025-185	Jet-A1	10 L	A leaking connection on the summit pumphouse caused a spill of 10L. Impacted snow and ice was containerized for offsite disposal. The connection was repaired and the leak was stopped.	Outside Pumphouse (63o 20' 23" N, 64o 09' 18" W)
02-May-2025, Spill # NTNU 2025-203	Jet-A1	30 L	A leaking connection on heavy equipment caused a spill on to a gravel pad. Impacted gravel was removed and containerized for off-site disposal. The connection was repaired and the leak was stopped.	Main Station (63 20'02.6" N, 64 09'29.9" W)
19-Jul-2025, Spill # tbd	Oil	4 L	A leaking pail of oil was discovered at the retrograde staging area. Impacted gravel was cleaned up and containerized for off-site disposal.	Beach staging area (63o19'10.92" N 64o08'24.38" W)

## 7.0 REVISIONS TO THE SPILL CONTINGENCY PLAN

The Spill Contingency Plan was updated on **27-Mar-2026**. An updated copy of the Spill Contingency Plan has been submitted to the NWB with this annual report.

## 8.0 PROGRESSIVE RECLAMATION WORK UNDERTAKEN

On 19-Mar-2015 a fuel spill occurred at the BAF-3 summit site. Responsibility for this reclamation work is to be determined by DND.

## 9.0 ACRONYMS

**Table 9-1: Acronyms**

Acronym	Definition
MW	Monitoring Well
NAPL	Non-Aqueous Phase Liquids
NWB	Nunavut Water Board
NWS	North Warning System
NWSO	North Warning System Office
PHC	Petroleum Hydrocarbons
RW	Recovery Well
SVE	Soil Vapor Extraction
TDGR	Transportation of Dangerous Goods Regulations
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compounds
XBR	Cross-border Movement of Hazardous Waste and Hazardous Recyclable Material Regulations



## **ANNEX A. HAZARDOUS WASTE AND WASTE OIL DISPOSAL**

The Movement Documents for TDG Regulated waste and non-TDG Regulated waste are included below.

UM-01476-1

**MOVEMENT DOCUMENT / MANIFEST  
DOCUMENT DE MOUVEMENT / MANIFESTE**

<b>A Generator / consigneur name</b> Nom de producteur / expéditeur NASITTUQ CORP. 22 WING BLDG 109 HORNELL HEIGHTS CAN P0H1P0 Tel. No. / N° de tél 705-494-2011 X 3400		<b>Unique Identification Number</b> Numéro d'identification unique NUG100003		<b>Carrier name</b> Nom de transporteur Carrier name / Nom de transporteur Unique Identification Number / Numéro d'identification unique 23		Reference Nos. of other movement documents / Manifests used / N° de référence des autres documents de mouvement / manifestes utilisés 27	
<b>Shipping facility company name</b> Nom de l'entreprise de l'installation de l'envoi NWS BAF-3 Shipping facility addr. / A dr. de l'installation d'envoi BREVOORT ISLAND, NU E-mail / Courrier électronique Tel. No. / N° de tél		<b>Intended receiver / consignee name</b> Nom de réceptionnaire / destinataire prévu CHEZTAALUR ENVIRONNEMENTAL Mailing addr. / A dr. postale 5935 CHESTNUTCREUR ENTRANCE 1 SUITE 200 BROSSARD QC E-mail / Courrier électronique Tel. No. / N° de tél		<b>Trailer - Rali car No. 1</b> 1 <sup>er</sup> remorque - wagon <b>Trailer - Rali car No. 2</b> 2 <sup>e</sup> remorque - wagon <b>Port of entry /</b> Point d'entrée Date <b>Carrier Certificate:</b> I certify that I have received waste or recyclable material from the generator/consignor for delivery to the receiver/consignee as set out in Part A and that the information contained in Part B is complete and correct. <b>Attestation du transporteur:</b> J'atteste avoir reçu les déchets ou matières recyclables du producteur/expéditeur en vue de leur livraison au réceptionnaire/destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.		<b>Receiver/consignee name</b> Nom de réceptionnaire/destinataire Unique Identification Number / Numéro d'identification unique 28 <b>Receiving facility addr. / A dr. de l'installation de</b> réception City / Ville Prov. Country / Pays Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél 29 Delivery date / Date de livraison Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. If handling code "Other" (specify) Si code de manutention "autre" (spécifier)	
<b>Permit No. /</b> N° de permis <b>Perm. Line No. /</b> N° de ligne de la permis <b>Shipment</b> Envoi <b>Or / De</b> <b>D or R code</b> Code D ou R <b>C code</b> Code C		<b>Class / Classif.</b> Sub. Classif. / Sous-classeif. sub. <b>Packing/Category</b> Gr. d'emballage/ catégorie <b>Toxic by inhalation</b> Toxique par inhalation <b>Quantity shipped /</b> Quantité expédiée <b>Units</b> L or / ou kg Unités <b>Packaging / Containers</b> Codes No. / N° <b>Phys. state</b> État phys.		<b>Quantity received /</b> Quantité reçue <b>L or / ou kg</b> Unités <b>Comments</b> Commentaires <b>Handling /</b> Code / Code de manutention <b>Shipment / Envoi</b> Accepted / Refused Accepté / Refusé <b>Decorat. /</b> Pack. / Vén. / Cont. / Veh.		<b>Receiver/consignee certification:</b> I certify that the information contained in Part C is correct and complete. <b>Attestation du réceptionnaire/destinataire:</b> J'atteste que tous les renseignements à la partie C sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie) Signature Tel. No. / N° de tél 36 <b>TDQR additional info</b> Info additionnelle TDQR 1-888-CAN-UTEC OR 613-996-6666 <b>Special Handling / Manutention spéciale</b> <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre <b>24-Hour Number</b> Numéro 24 heures 705-494-2011 X3400 <b>Date Shipped / Date d'expédition</b> Year / Année Month / Mois Day / Jour <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. 2 5 1 0 1 1 02 23 <b>Scheduled arrival date / Date d'arrivée prévue</b> Year / Année Month / Mois Day / Jour	
<b>Generator/consignor certification:</b> I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/identified, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. <b>Attestation du producteur/expéditeur:</b> J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.		<b>Name of authorized person (print)</b> Nom de l'agent autorisé (caractère d'imprimerie) Signature Troy Kuster 705-494-2011x4510 Tel. No. / N° de tél 20		<b>Signature</b> Signature Troy Kuster 705-494-2011x4510 Tel. No. / N° de tél 20		<b>Signature</b> Signature Troy Kuster 705-494-2011x4510 Tel. No. / N° de tél 20	

ECCC XBR v1.1 (2022/08)

Additional carriers and waste lines on reverse / Transporteurs et lignes de déchets additionnels au verso

Copy / Copie \_\_\_ / Colour / Couleur



Movement Document / Manifest Reference No.  
N° de référence du document de mouvement / manifeste

<b>B Carrier name</b> <b>Nom de transporteur</b>		<b>Unique Identification Number</b> <b>Numéro d'identification unique</b>		<b>B Carrier name</b> <b>Nom de transporteur</b>		<b>Unique Identification Number</b> <b>Numéro d'identification unique</b>		<b>B Carrier name</b> <b>Nom de transporteur</b>		<b>Unique Identification Number</b> <b>Numéro d'identification unique</b>	
<b>Mailing addr. / Adr. postale</b>		<b>City / Ville</b>		<b>Prov.</b>		<b>Country / Postal code / Pays</b>		<b>Mailing addr. / Adr. postale</b>		<b>City / Ville</b>	
<b>E-mail / Courrier électronique</b>		<b>Tel. No. / N° de tél</b>		<b>E-mail / Courrier électronique</b>		<b>Tel. No. / N° de tél</b>		<b>E-mail / Courrier électronique</b>		<b>Tel. No. / N° de tél</b>	
<b>Vehicle / Véhicule</b>		<b>Registration No. / N° d'immatriculation</b>		<b>Prov.</b>		<b>Vehicle / Véhicule</b>		<b>Registration No. / N° d'immatriculation</b>		<b>Prov.</b>	
<b>Trailer - Rail car No. 1</b> <b>1<sup>er</sup> remorque - wagon</b>						<b>Trailer - Rail car No. 1</b> <b>1<sup>er</sup> remorque - wagon</b>					
<b>Trailer - Rail car No. 2</b> <b>2<sup>e</sup> remorque - wagon</b>						<b>Trailer - Rail car No. 2</b> <b>2<sup>e</sup> remorque - wagon</b>					
<b>Port of entry</b> <b>Point d'entrée</b>		<b>Port of exit</b> <b>Point de sortie</b>		<b>Date</b>		<b>Port of entry</b> <b>Point d'entrée</b>		<b>Port of exit</b> <b>Point de sortie</b>		<b>Date</b>	
<b>Carrier Certification:</b> I certify that I have received waste or recyclable material from the generator/consignor for delivery to the receiver/consignee as set out in Part A and that the information contained in Part B is complete and correct. <b>Attestation du transporteur:</b> J'affirme avoir reçu les déchets ou matières recyclables du producteur/expéditeur en vue de leur livraison au récepteur/marchandises, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.		<b>Carrier Certification:</b> I certify that I have received waste or recyclable material from the generator/consignor for delivery to the receiver/consignee as set out in Part A and that the information contained in Part B is complete and correct. <b>Attestation du transporteur:</b> J'affirme avoir reçu les déchets ou matières recyclables du producteur/expéditeur en vue de leur livraison au récepteur/marchandises, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.		<b>Carrier Certification:</b> I certify that I have received waste or recyclable material from the generator/consignor for delivery to the receiver/consignee as set out in Part A and that the information contained in Part B is complete and correct. <b>Attestation du transporteur:</b> J'affirme avoir reçu les déchets ou matières recyclables du producteur/expéditeur en vue de leur livraison au récepteur/marchandises, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.							
<b>Name of authorized person (print)</b> <b>Nom de l'agent autorisé (caractère d'imprimerie)</b>		<b>Tel. No. / N° de tél</b>		<b>Name of authorized person (print)</b> <b>Nom de l'agent autorisé (caractère d'imprimerie)</b>		<b>Tel. No. / N° de tél</b>		<b>Name of authorized person (print)</b> <b>Nom de l'agent autorisé (caractère d'imprimerie)</b>		<b>Tel. No. / N° de tél</b>	
<b>Year / Année</b>		<b>Month / Mois</b>		<b>Day / Jour</b>		<b>Signature</b>		<b>Year / Année</b>		<b>Month / Mois</b>	

Additional waste lines information / Lignes d'informations supplémentaires de déchet

A													C				
Prov. code Code prov.	UN No. N° NU	Shipping name Appellation réglementaire	Class / Classe Risk / Classe(s) ab.	Packing category Règ. d'emballage catégorie	Toxic by inhalation Toxique par inhalation	Quantity shipped Quantité expédiée	Units L or cu m Unités	Packaging / Containers No. / N°	Codes M. Est.	Phys. state Etat phys.	Quantity received Quantité reçue	Units L or cu m Unités	Comments Commentaires	Handling Code / Code de manutention	Shipment / Envoi Accepted / Refusé	Decort. Pack. Lien Ven.	
Permit No. N° de permis	Permit Line No. N° de ligne de la permis	Shipment Envoi	Or/De	D or R code Code D ou R	C code Code C	Base/ Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE	H code Code H	Y code Code Y	National code in country of Code national du pays d'	Export Exportation	Import Importation	Customs codes Codes de douanes					
(V)	UN1863	WASTE FUEL, AIR INTAKE, TURBINE ENGINE INDIANE (fuel-vector mix)	3	III		1165	L	6	01	L							
(VI)	UN2800	WASTE BATTERIES, WET, NON-SPILLABLE, electric storage	8			726	kg	1	07	S							
(VII)	UN2794	WASTE BATTERIES, WET, FILLED WITH ACID, electric storage	8			431	kg	1	07	S							
(VIII)	UN1263	WASTE PAINT	3	III		120	L	1	01	L							
(V)																	
(VI)																	
(VII)																	
(VIII)																	

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## ANNEX B. LOCATION OF LANDFILL (INACTIVE) WITH COORDINATES



Figure 9-1 Coordinates of Landfill (inactive) Location: 63° 20' 30.00"N, 64° 10' 02.00"W

### ANNEX C. BAF-3 SEWAGE EFFLUENT OUTFALL LOCATION WITH COORDINATES



Figure 9-2: Coordinates of Sewage Outfall Location (Location ID: BAF-2): 63° 20' 21.40"N, 64° 09' 26.63"W



## **ANNEX D. ANALYSIS OF DISCHARGED SEWAGE EFFLUENT**

The sewage outfall was not discharged in 2025 therefore samples were not required.

## ANNEX E. ANALYSIS OF BERM WATER<sup>1</sup>

Fuel tanks within the berms were demolished in 2012 and 2013, and the berms were intentionally breached in 2012 and 2015. As there are no intact berms, no effluent (berm water) samples (Location ID: “BAF-4”) were taken in this period and this section has been left blank.

Sampling location ID “BAF-4” was discontinued in licence 8BC-BAF1929.

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<sup>1</sup> Effluent from bermed fuel storage facilities.



## **ANNEX F. MONITORING ACTIVITIES**

To be determined by DND.