



WATER LICENCE INSPECTION FORM

Original
 Follow-Up Report

Licensee	Licensee Representative
Department of National Defence	Nicolas Billette
Licence No. / Expiry	Representative's Title
8BC-NNF2124	Environmental Coordinator
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
July 9, 2022	Joseph Monteith
Activities Inspected	
<input checked="" type="checkbox"/> Camp: <input type="checkbox"/> Construction: <input type="checkbox"/> Drilling: <input checked="" type="checkbox"/> Fuel Cache: <input type="checkbox"/> Mining: <input type="checkbox"/> Reclamation: <input type="checkbox"/> Roads/Hauling: <input type="checkbox"/> Other:	

Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:				Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT				A	
B: GENERAL CONDITIONS				A	
C: CONDITIONS APPLYING TO SECURITY				NI	
D: CONDITIONS APPLYING TO WATER USE				A	1-5,
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT				A	6-16
F: CONDITIONS APPLYING TO MODIFICATIONS				NI	
G: CONDITIONS APPLYING TO CONSTRUCTION				NI	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING				A	16, 21-24
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING				NA	
J: CONDITIONS APPLYING TO MONITORING				NI	
SCHEDULES				NI	
<i>*The observation number corresponds with specific comments provided below.</i>					
Samples taken by Inspector:	Location(s): 73° 4' 01.09" N Longitude: 84° 32' 49.9" W (Camp)				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

SECTION 1	<input type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
BACKGROUND			
As part of an initiative to increase Canadian military presence in Arctic Waters, the Department of National Defense (DND or the Applicant or the Proponent) proposes to construct and operate a naval facility near the Hamlet of Arctic Bay, Nunavut. The Nanisivik Naval Facility (NNF or the Project) will consist of a deep-Water berthing and refueling station that will serve the Arctic/Offshore Patrol Ships (AOPS) Project, Royal Canadian Navy and other government vessels.			
On June 16, 2021 the Nunavut Water Board Issued the Department of National Defense a renewal Class "B" Water License 8BC-NNF2124 for the construction of the Nanisivik Naval Facility Project at Nanisivik, Qikiqtani Region, Nunavut for the use of water and deposit of waste. The licenses allow, and shall not exceed the following, 1200m ³ per year or 299m ³ per day for domestic and industrial purposes.			
Inspector Statement			
On July 9, 2022 a Water Licence Inspection was conducted by Water Resource Officer (WRO) Joseph Monteith at Nanisivik Naval Facility , Qikiqtani Region, Nunavut, for water licence water licence 8BC-NNF2124.			
General Condition			
On April 1, 2022 Sylvia Ekelik, Nunavut Water board sent Water Resource Officer(WRO) Joseph Monteith a copy of the Department of National Defence's 2021 Annual Report.			
ftp://ftp.nwb-oen.ca/registry/8%20MISCELLANEOUS/8B/8BC%20-%20Construction/8BC-NNF2124%20DND/3%20TECH/B%20GENERAL/2%20ANNUAL%20RPT/2021/220331%208BC-NNF1920-2021%20Annual%20			
Water Supply			
<ol style="list-style-type: none"> 1. The Nanisivik Naval Facility (photo 1) withdraws water using two water trucks, to withdrawal water from Arctic Bay for domestic and industrial purposes for the construction and operation phases of the project. They fill up the trucks until they are full. 			



2. The water is held in a water storage tank located in a sea can next to the living quarters building (photo 2 & 3)
3. On April 1, 2022 Sylvia Ekelik, Nunavut Water Board sent Water Resource Officer(WRO) Joseph Monteith a copy of the Department of National Defence's 2021 Annual Report. In the annual report, there was no use of water, due to the closure of activity due to COVID-19 Restrictions.
4. 2 x Water Delivery Trucks on site (photo 4 & 5)
5. Water Usage Log shows Between May 27, 2022 and July 14, 2022, 291,000 Litres (291 m³) withdrawn from the Arctic Bay Water Source. They are authorized for 1200m³ a year (photo 22).

Waste Disposal

6. Sewage is disposed of into the Community of Arctic Bay's wastewater facility.
7. 8 pages of Sewage Truck Log. Log shows 26,400 Litres (26.4 m³) discharged into the Arctic Bay Sewage Lagoon (photo 23)
8. 3 waste bins was observed on site (photo 8).
9. Bulk Metals observed in one of the bins (photo 9).
10. An Incinerator was observed on site, no signs of unauthorized items, or hazardous material (photo 18,19,20, 21).
11. Incinerator Log, 8 pages submitted (photo 24).
12. Incinerator (photo 18)
13. Fuel storage tank for incinerator(photo 19).
14. Signs of fuel spill under fuel storage tank(photo 21).
15. A sump pit was observed (photo 7).

Fuel Cache

16. A fuel Cache was observed on site. The fuel cache is a bermed structure with secondary containment. There was 16 drums on 4 pallets, and 1x 900 Litre Tote Storage Container within the secondary containment (photo 17).

Hazardous Waste

17. Hazardous Waste Storage inside a sea can away from the external elements (photo 12).
18. 2 x Fuel Transfer station, one of the transfer stations wasn't in secondary containment (photo 10 & 11).
19. Waste Batteries on Pallet (photo 15).

Spill Reports

20. 4 spill reports were submitted in 2022. All spills were below the reportable quantity for reporting as outlined in the NT/NU Spills Working Group Agreement, and have been closed off in the Spills Database as remediated. All spills listed have been cleaned up.
21. Spill Report 2022-365 was submitted on July 17, 2022, for 22.73 Litres of Diesel
22. Spill Report 2022- 003 was submitted on January 1, 2022, for 9 Litres of Diesel
23. Spill Report 2022-285 was submitted on June 18, 2022, for 20 Litres of Diesel
24. Spill Report 2022-374 was submitted on July 22, 2022, for 30 Litres of Diesel.
25. 3 signs of spills observed on site (photo 13,14,22)

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
3 x minor spills observed on site. Provide a detailed report for each spill report submitted as per the condition of the license.			
SECTION 3	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
If during the term of this License an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall: a. Employ the approved Emergency and Spill Response Plan; b. Report the spill immediately to the NWT/NU 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4284; and c. For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.			

Licensee or Representative	Inspector's Name
Nicolas Billette	Joseph Monteith
Signature	Signature
Date	Date
	November 17, 2022

CC: Licensing Department, NWB
Jeremy Fraser, Manager of Field Operations, CIRNAC



PHOTO LOG

Date	Camera	Inspector
July , 2022	Nikon Cool Pix	Joseph Monteith
Photo Log #	Location	
Photo 1	Nanisivik, Qikiqtani Region, Nunavut	

Description: Buildings that house the construction crew (background right hand side). Fuel dispensing manifold (foreground). Fuel storage tank (background centre).

Photo Log #	Location
Photo 2	Nanisivik

Description: Water Storage Tank



Photo Log #

Photo 3

Location

Nanisivik



Description: Water Storage Tank #2, with water pump

Photo Log #

Photo 4

Location

Nanisivik



Description: White Insulated Mobile Storage Tank for Water.



Location

Nanisivik

Photo 5



Description: all equipment historically stored near the water body were removed. No signs of banks being disturbed. White insulated mobile storage tanks for water.

Photo Log #

Photo 6

Location

Nanisivik



Description: Site of monitoring station at Twin Creeks. No concerns.



Photo Log #

Photo 7

Location

Nanisivik



Description: Grey Water Sump Pit.

Photo Log #

Photo 8

Location

Nanisivik



Description: Waste storage bins top corner pushed under a support for a cement pouring bucket.



Photo 9

Location

Nanisivik



Description: Bulk Metal Waste Storage.

Photo 10

Location

Nanisivik



Description: Hazardous material placement, in secondary containment. Fuel pump, and ope



Photo 11

Location

Nanisivik



Description: Fuel Transfer Station. No secondary containment. No signs of spills.

Photo 12

Location

Nanisivik



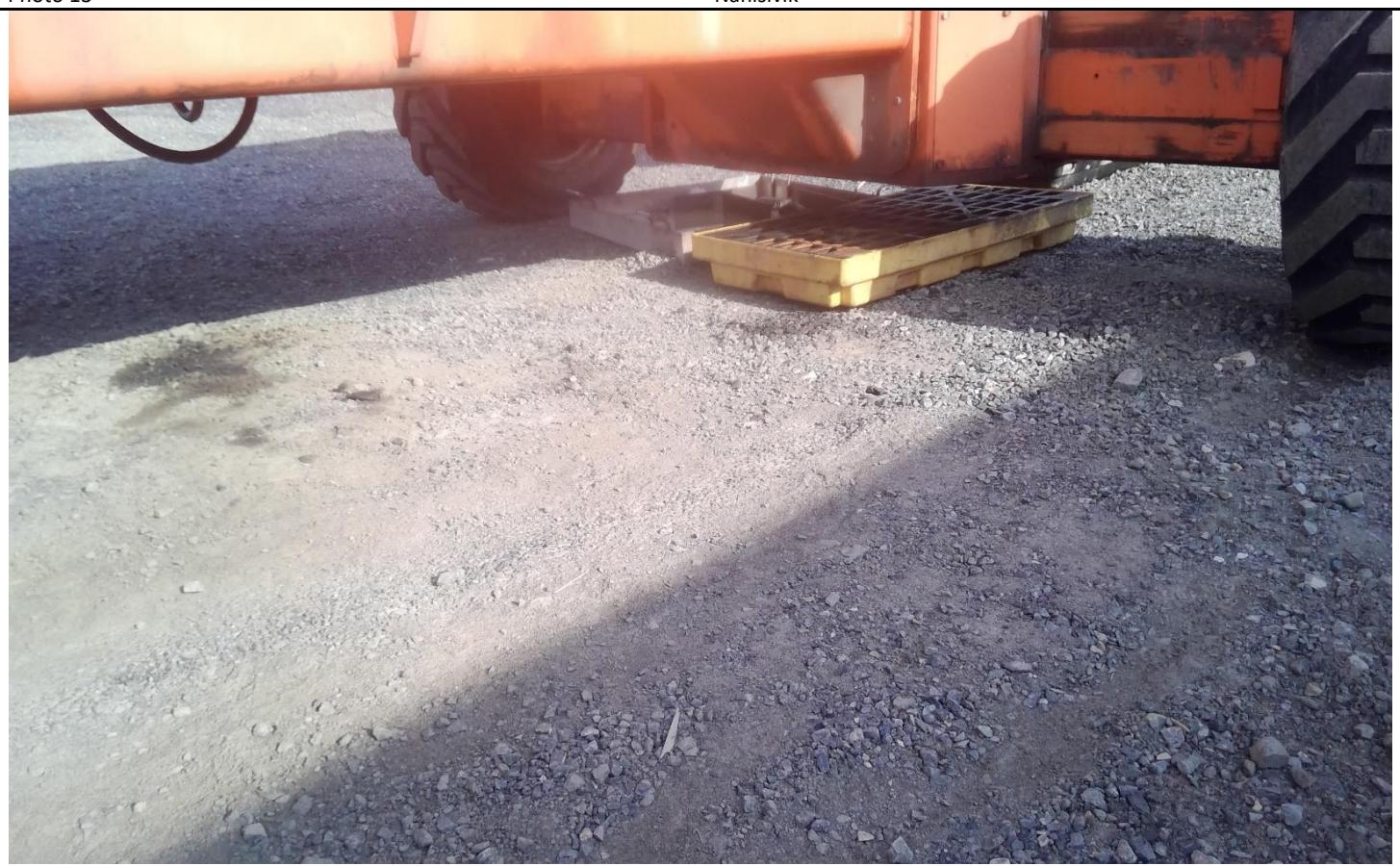
Description: Hazardous Waste Storage in sea can.



Photo 13

Location

Nanisivik

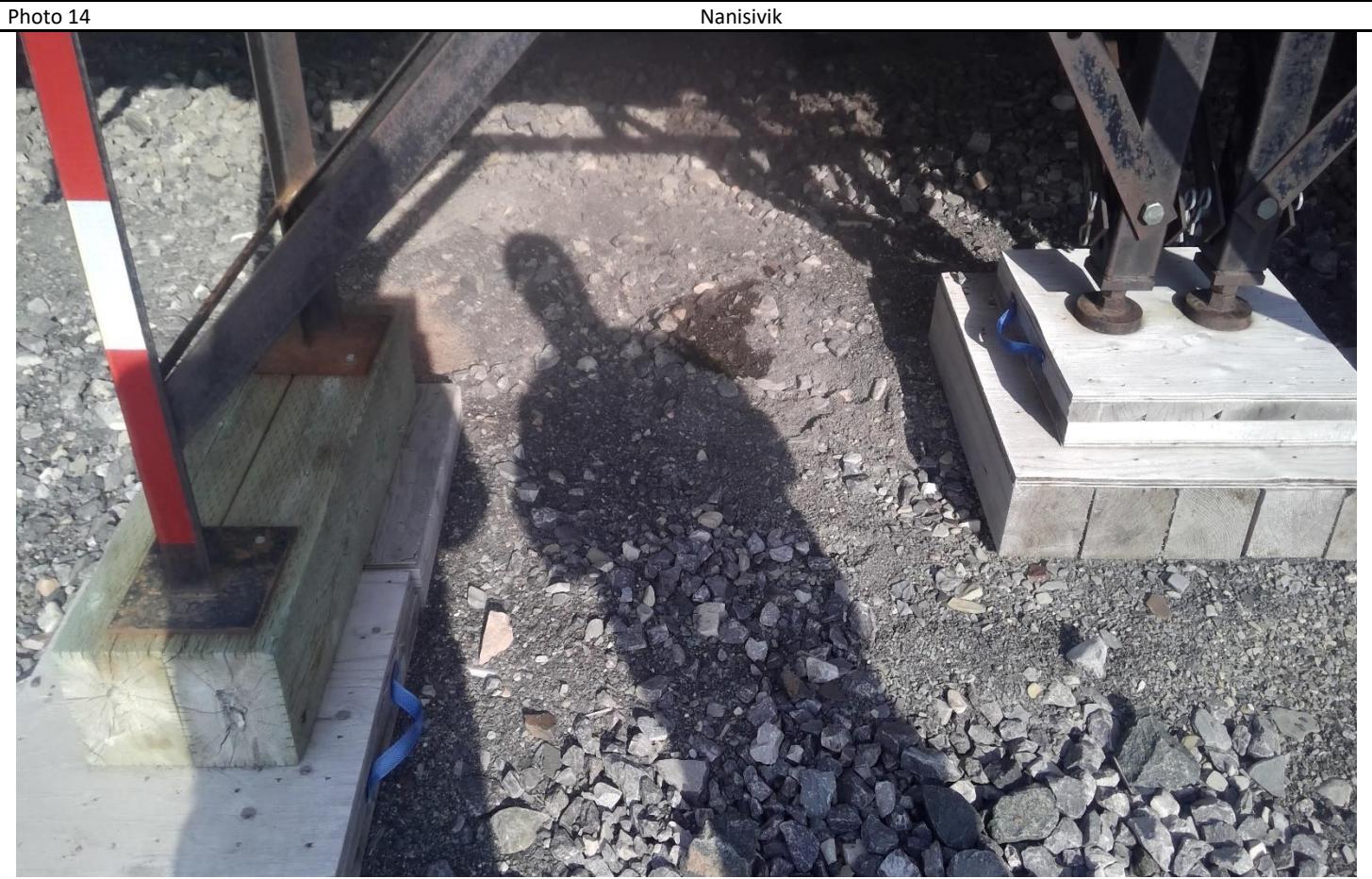


Description: sign of spill under Fork Lift. Secondary containment berm used as a drip pan, and a drip pan under fork lift.

Photo 14

Location

Nanisivik



Description: sign of spill under building. Leak coming from building.



Photo 15

Location

Nanisivik



Description: Hazardous Waste Storage. Batteries on pallet waiting for transport to an approved waste disposal facility.

Photo 16

Location

Nanisivik



Description: 2 x fuel tanks in secondary containment.



Location

Nanisivik

Photo 17



Description: 5 pallets of Fuel in drums. 1 900L tote Storage Container in secondary containment berm.

Location

Nanisivik

Photo 18



Description: sign of spill under building. Leak coming from building.



Photo 19

Location

Nanisivik



Description: No signs of any unauthorized items being incinerated.

Photo 20

Location

Nanisivik



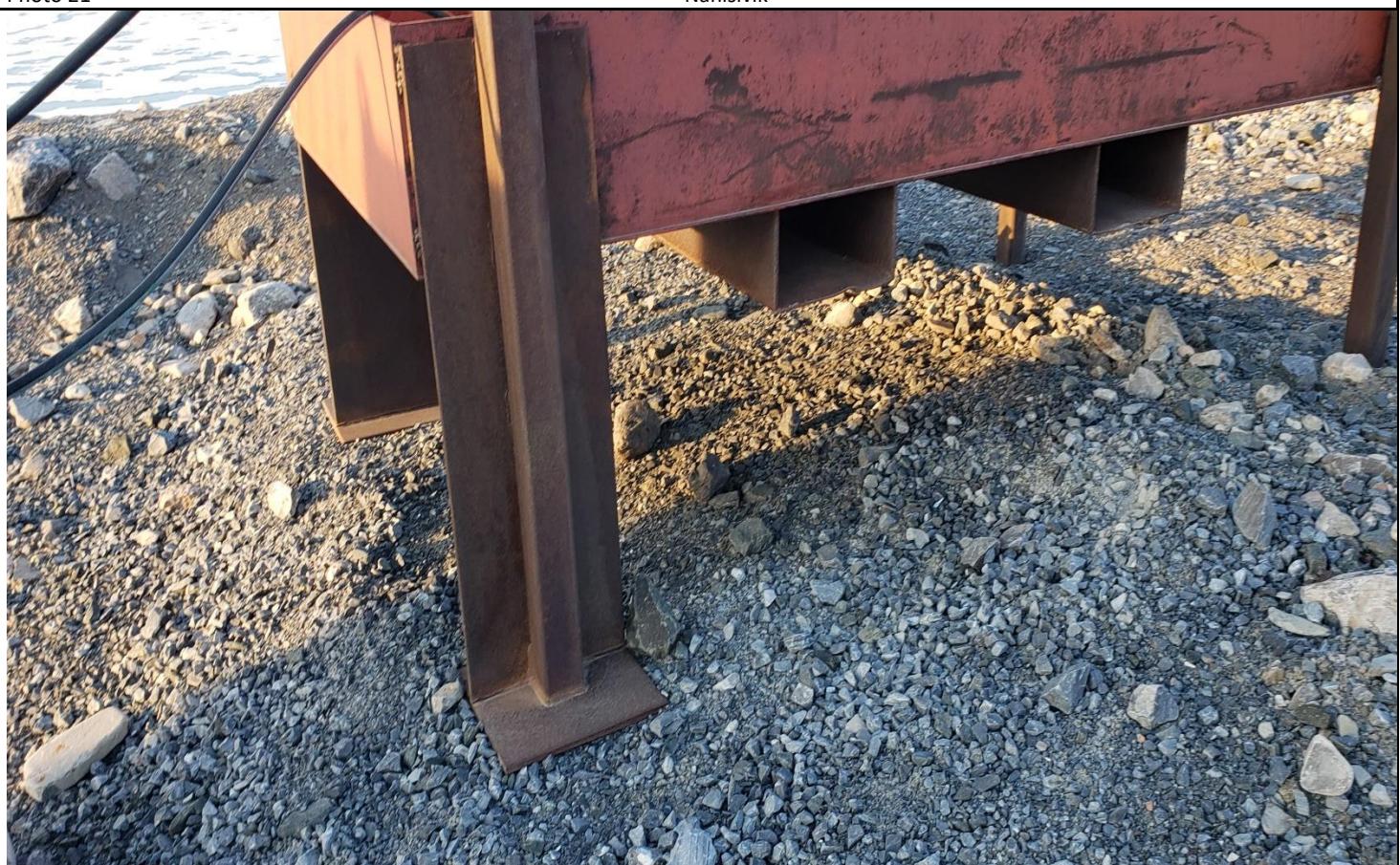
Description: Incinerator to Fuel Storage Tank. Electrical and fuel lines. Sign of spill under fuel storage tank.



Photo 21

Location

Nanisivik



Description: sign of spill under fuel storage tank.

Photo 22

Location

Nanisivik

Registre eau potable/ Potable water register

Date	Quantity (L)	Driver
5/27/2022	6000	Robin Voyer
5/29/2022	6000	Robin Voyer
5/30/2022	6000	Robin Voyer
6/1/2022	6000	Robin Voyer
6/3/2022	6000	Mason Pauloosie
6/6/2022	6000	Mason Pauloosie
6/7/2022	6000	Mason Pauloosie
6/8/2022	6000	Mason Pauloosie
6/9/2022	9000	Robin voyer
6/10/2022	9000	Mason Pauloosie
6/11/2022	9000	Mason Pauloosie
6/12/2022	9000	Mason Pauloosie
6/13/2022	9000	Mason Pauloosie
6/15/2022	9000	Mason Pauloosie
6/17/2022	9000	Benjamin Issuqangituuq
6/19/2022	9000	Mason Pauloosie
6/20/2022	9000	Mason Pauloosie
6/22/2022	9000	Mason Pauloosie
6/24/2022	9000	Mason Pauloosie
6/25/2022	9000	Mason Pauloosie
6/27/2022	9000	Mason Pauloosie
6/28/2022	9000	Mason Pauloosie
6/30/2022	9000	Mason Pauloosie
7/1/2022	9000	Mason Pauloosie
7/3/2022	9000	Mason Pauloosie
7/5/2022	9000	Mason Pauloosie
7/6/2022	9000	Mason Pauloosie
7/7/2022	9000	Mason Pauloosie
7/8/2022	9000	Mason Pauloosie
7/9/2022	9000	Mason Pauloosie
7/10/2022	9000	Robin Voyer
7/11/2022	9000	Mason Pauloosie
7/12/2022	9000	Mason Pauloosie
7/13/2022	9000	Mason Pauloosie
7/14/2022	9000	Mason Pauloosie
	0	
	0	
	0	
	0	
	0	
	0	
	0	
	0	
Total:	291000	

Description: Potable Water Register, shows 291,000 Litres withdrawn from Arctic Bay Water Source



Photo 23

Location
Nanisivik

Sewage truck / Eaux usées

Date	Quantity (L)	Driver	
6/1/2022	6000	Mason Pauloosie	
6/4/2022	6000	Mason Pauloosie	
6/6/2022	6000	Mason Pauloosie	
6/7/2022	6000	Mason Pauloosie	
6/8/2022	6000	Mason Pauloosie	
6/9/2022	9000	Robin Voyer	
6/10/2022	9000	Mason Pauloosie	
6/11/2022	9000	Mason Pauloosie	
6/12/2022	9000	Mason Pauloosie	
6/14/2022	9000	Mason Pauloosie	
6/16/2022	9000	Mason Pauloosie	
6/18/2022	9000	Mason Pauloosie	
6/21/2022	9000	Mason Pauloosie	
6/22/2022	18000	Mason Pauloosie	
6/24/2022	9000	Mason Pauloosie	
6/26/2022	9000	Mason Pauloosie	
6/27/2022	9000	Mason Pauloosie	
6/29/2022	9000	Mason Pauloosie	
6/30/2022	9000	Mason Pauloosie	
7/1/2022	9000	Mason Pauloosie	
7/3/2022	9000	Mason Pauloosie	
7/5/2022	9000	Mason Pauloosie	
7/6/2022	9000	Mason Pauloosie	
7/7/2022	9000	Mason Pauloosie	
7/8/2022	9000	Mason Pauloosie	
7/9/2022	9000	Mason Pauloosie	
7/10/2022	9000	Robin Voyer	
7/11/2022	9000	Mason Pauloosie	
7/12/2022	9000	Mason Pauloosie	
7/13/2022	9000	Mason Pauloosie	
Total:	264000		

Description: Sewage Truck Log. Log shows 26,400 Litres discharged into the Arctic Bay Sewage Lagoon

Photo 24

Location
NanisivikWaste incineration
Daily Report

Date :

29 JUN. 2022

Translucid/
white / black

Name :

Waste type	QTY (kg)	Incinerator temperature (celsius)	Wind condition (km/h)	Smoke colour
MANSE TABLE	700	800	10 KL.	GRN - BLU.
30 JUN.	50	800	30 KL.	ROSY
2 JULLET.	60	800	10 ILL.	GRN - BLU.
5 JULY	40	800	10 ILL.	GRN - BLU.
7 JULLET	70	800	10 ILL.	GRN - BLU.
11 JULY	80	800	20 KL.	GRN - BLU.
14 JULLET	100	800	10 ILL.	GRN - BLU.
	50	800	20 KL.	GRN - BLU.

Description: Waste Incinerator Daily Report. 8 pages were submitted to the inspector.