



2015 ANNUAL NUNAVUT WATER BOARD REPORT FOR CAM-3

FOR THE

North Warning System

Contract # W8485-100224/001/NX
CDRL 16.F.5.d

Document Number
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Prepared for

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CHANGE HISTORY

This sheet is a record of each issue of this document. When the revised document is issued, the previous issue is automatically superseded.

Version	Date	Configuration Management	Pages Changed	Reason for Change
1	17-Mar-2016	-	-	Initial Document Release.
Document Title: 2015 Annual Report Nunavut Water Board for CAM-3				Document Number: FM-EHS-13

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EXECUTIVE SUMMARY

This 2015 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada Limited (RCL) for the Department of National Defence in order to meet the requirements of the licence issued 10 September 2009 3BC-SHE0919 – Type “B”, Part B. General Conditions, paragraph 1. This report covers the period from 01 January to 31 December 2015.

RCL is the Operations and Maintenance (O&M) Contractor for the North Warning System (NWS) including CAM-3. CAM-3 is the unattended (unmanned) NWS radar site located at Shepherd Bay, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by RCL staff from CAM-M, Cambridge Bay, Nunavut.

In 2015, a total of 67.9 cubic meters was drawn from the water supply lake at CAM-3. This is below the annual maximum of 1,440 cubic meters allowed by the licence.

The berm water was not pumped out therefore no samples were taken for laboratory analysis. When staff arrived on-site for the summer 2015 preventive maintenance trip in August 2015 there was no water in the summit or beach berms.

Hazardous waste and waste oil from CAM-3 were sent to an approved hazardous waste disposal facility outside of Nunavut as required by the licence. The waste was sent to Clean Harbors, P.O. Box 390, Ryley, AB, T0B 4A0. The waste receiver number for Clean Harbors is ABR1092. The hazardous waste consisted of 39 drums of assorted waste (oil, fuel, glycol, etc.).

Non-hazardous domestic solid waste was disposed of through a contract with the Hamlet of Cambridge Bay at the local landfill. RCL has documented authorization from the community for receiving the waste.

No spills occurred at CAM-3 in 2015.

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EXECUTIVE SUMMARY IN INUKTITUT

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TABLE OF CONTENTS

1.0	Introduction	1
1.1	Report Details.....	1
2.0	Water Use	1
3.0	Hazardous Waste and Waste Oil Disposal	2
4.0	Non-hazardous Solid Waste Disposal.....	3
5.0	Monitoring Program.....	3
6.0	Spills (Unauthorized Discharges).....	4
7.0	Revisions to the Spill Contingency Plan.....	4
8.0	Progressive Reclamation Work Undertaken	4
9.0	Acronyms	5
	Annex A – Hazardous Waste and Waste Oil Disposal in 2015	6
	Annex B - CAM-3 - Sewage Effluent Outfall (CDL-2) Location with Co-ordinates.....	11
	Annex C - CAM-3 - Analysis of Sewage Effluent	12
	Annex D - CAM-3 - Location of Bermed Fuel Storage Facilities with Co-ordinates.....	13
	Annex E - CAM-3 - Analysis of Berm Water (Effluent from Bermed Fuel Storage Facilities).....	14

TABLE OF TABLES

Table 2-1 Monthly Raw Water Usage at CAM-3 in 2015	2
Table 3-1 Hazardous Waste and Waste Oil Sent for Disposal from CAM-3 in 2015	2
Table 4-1 Non-hazardous Domestic Solid Waste Sent for Disposal from CAM-3 in 2015.....	3
Table 7-1 Outdoor Spills Reported at CAM-3 in 2015.....	4

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1.0 INTRODUCTION

This 2015 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada Limited (RCL) for the Department of National Defence in order to meet the requirements of the licence issued 10 September 2009 3BC-SHE0919 – Type “B”, Part B. General Conditions, paragraph 1. This report covers the period from 01 January to 31 December 2015.

RCL is the Operations and Maintenance (O&M) Contractor for the North Warning System (NWS) including CAM-3. CAM-3 is an unattended (unmanned) North Warning System radar site located at Shepherd Bay, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by RCL staff from CAM-M, Cambridge Bay, Nunavut.

1.1 REPORT DETAILS

Licensee: Department of National Defence, Government of Canada
Licence: 3BC-SHE0919 – Type “B”
Location: CAM-3 North Warning System Site,
Cambridge Bay, Kitikmeot Region, Nunavut
Report prepared by: Raytheon Canada Limited, 16-Mar-2016
Time Period Covered: 01 January to 31 December 2015

2.0 WATER USE

A total of 67.9 cubic meters was drawn from the water supply lake. This is below the annual maximum of 1,440 cubic meters allowed by the licence. See Table 2-1 for the volume of raw water drawn at CAM-3 in 2015.

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Table 2-1 Monthly Raw Water Usage at CAM-3 in 2015

Month	Raw water usage in cubic metres (m ³)
January	0
February	0
March	0
April	9.8
May	5.1
June	0
July	28.0
August	25.0
September	0
October	0
November	0
December	0
TOTAL	67.9

3.0 HAZARDOUS WASTE AND WASTE OIL DISPOSAL

Hazardous waste and waste oil were sent to an approved hazardous waste disposal facility outside of Nunavut as required by the licence. The waste was sent to Clean Harbors, P.O. Box 390, Ryley, AB, T0B 4A0. The waste receiver number for Clean Harbors is ABR1092.

See Table 3-1 for the list of items sent for disposal.

See Annex A for the shipping documents including the completed movement documents for waste regulated under the Transportation of Dangerous Goods Regulations (TDGR) and NWS Manifests for non-regulated waste. A total of 40 drums of waste HAZMAT were shipped from CAM-3 in 2015.

Table 3-1 Hazardous Waste and Waste Oil Sent for Disposal from CAM-3 in 2015

Site	Description, TDG shipping name	Quantity	Movement Document or Manifest #
CAM-3	Waste Glycol Not TDG Regulated	3 Drums	NWS Shipping Manifest 34393
CAM-3	Waste Oil Not TDG Regulated	23 Drums	NWS Shipping Manifest 34415, 34417, 34418, 34419, 34420, 34421
CAM-3	Waste Oil Filters Not TDG Regulated	1 Drum	NWS Shipping Manifest 34423
CAM-3	Waste Jet A1 Fuel Waste Fuel, Aviation, Turbine Engine	4 Drums	Movement Document 2581511-9

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Site	Description, TDG shipping name	Quantity	Movement Document or Manifest #
CAM-3	Waste Jet A1 Fuel Mixture Waste Fuel, Aviation, Turbine Engine Mixture	2 drums	Movement Document 2581511-9
CAM-3	Waste Jet A1 Fuel Impacted Soil/ Waste Jet A1 Fuel Soaked Sorbents Waste Solids Containing Flammable Liquid, N.O.S. (Fuel, Aviation, Turbine Engine)	7 Drums	Movement Document 2581511-9

4.0 NON-HAZARDOUS SOLID WASTE DISPOSAL

Non-hazardous domestic solid waste was flown from CAM-3 to CAM-M and disposed of through a contract with the Municipality of Cambridge Bay at the local landfill. RCL 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 CAM-3 in 2015

Month	Waste Generated (kg)
January	0
February	0
March	0
April	522
May	318
June	454
July	0
August	0
September	181
October	0
November	0
December	0
Total	1474

5.0 MONITORING PROGRAM

See **Annex B** for the location of the sewage effluent outfall, SHE-2, with co-ordinates. A sump for the sewage outfall was built in 2010.

Annex C is blank. The sump for the sewage outfall was not pumped out therefore no samples were taken for laboratory analysis.

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See **Annex D** for the list of bermed fuel storage facilities, SHE-3, with coordinates.

Annex E is blank. The berm water was not pumped out therefore no samples were taken for laboratory analysis. When staff arrived on-site for the summer 2015 preventive maintenance trip in August 2015 there was no water in the summit or beach berms.

6.0 SPILLS (UNAUTHORIZED DISCHARGES)

Table 6-1 Outdoor Spills Reported at CAM-3 in 2015

Date, Spill #	Product	Quantity	Cause and follow-up action	Location at CAM-3
No outdoor spills occurred at CAM-3 in 2015.				

7.0 REVISIONS TO THE SPILL CONTINGENCY PLAN

There were no revisions to the Spill Contingency Plan in 2015.

8.0 PROGRESSIVE RECLAMATION WORK UNDERTAKEN

None undertaken.

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9.0 ACRONYMS

Acronym	Definition
CC&C	Care, Custody, and Control
DEG	Diesel Engine Generator
DND	Department of National Defence
NWB	Nunavut Water Board
NWS	North Warning System
NWSO	North Warning System Office
O&M	Operations and Maintenance
PCB	Polychlorinated Biphenyl
RCL	Raytheon Canada Limited
TDGR	Transportation of Dangerous Goods Regulations

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ANNEX A – HAZARDOUS WASTE AND WASTE OIL DISPOSAL IN 2015

2015 Movement Documents for TDG Regulated waste and NWS Manifests for non-TDG Regulated waste.

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

The movement document contains information to be entered
and provincial transport and environmental regulations.
Ce document de transport contient des renseignements sur les législations
fédérale et provinciale sur l'entreposage et le transport.

2581511-9

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8243

NS/ITI/10 LSS-5

A Generator / émetteur Producteur / émetteur		Registration No. / Provincial ID No. N° d'immatriculation - état/province NUG 100003	B Carrier / Transporteur Registration No. / Provincial ID No. N° d'immatriculation - état/province		21		Movement Document / Manifest Reference No. N° de référence du document de mouvement/manifeste				
Shipping name / Nom de l'expéditeur De port en port International De France & RCL		Company name / Nom de l'entreprise 221, 10th Blvd 10th Street, 09 Port Pirie		Mailing address / Adresse postale City/Ville Province Postal code / Code postal Shepherd Bay NU		Post office / Bureau de poste City/Ville Province Postal code / Code postal ABR 1089		Recipient / consignee information same as in Part A Les renseignements du récepteur/destinataire sont identiques à la Partie A. <input type="checkbox"/> Yes/Yes <input type="checkbox"/> No, complete the box below/Non, remplir le cas-châssis			
Shipping date/Address of the consignee NWS/IRR-CAM3		Email/Courriel électronique ABR 1089		Vehicle / Véhicule Title - Plat no. 1 2 Title - Plat no. 2 2		Registration No. / N° d'immatriculation Title no. / N° de tit. TOB 400		Company name / Nom de l'expéditeur Mailing address / Adresse postale City/Ville Province Postal code / Code postal 2km North Highway 14 Secondary Road			
Recipient's address / Adresse du récepteur ABR 1089		Email/Courriel électronique ABR 1089		Part C only Partie C seulement		Information use only Informations au seul usage Part C details Détails de la partie C		Recycling address / Adresse du lieu de distribution Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> AM <input type="checkbox"/> PM			
Pack code / Code type Waste Fuel Aviation		Shipping name / Appellation émetteur Waste Fuel Aviation		Class / Class Sub class/Classement 3		Packing / Emballage Gr. d'emballage Code d'emballage UN 1863		Quantity shipped / Quantité expédiée Unit or Kg Unité ou Kg 111 800 L		Packing/Condition Unit or Kg Unité ou Kg 4 01 L	
Hazard No. / N° de classification Flammable, N.O.S. (Not Otherwise Specified)		Hazardous class No. / N° de classification 3		Hazardous class No. / N° de classification 3		Hazardous class No. / N° de classification UN 1593		Quantity shipped / Quantité expédiée Unit or Kg Unité ou Kg 111 200 L		Packing/Condition Unit or Kg Unité ou Kg 2 01 L	
Hazard No. / N° de classification Flammable, N.O.S. (Not Otherwise Specified)		Hazardous class No. / N° de classification 4.1		Hazardous class No. / N° de classification UN 3175		Hazardous class No. / N° de classification 11		Quantity shipped / Quantité expédiée Unit or Kg Unité ou Kg 690 K		Packing/Condition Unit or Kg Unité ou Kg 7 01 S	
Hazard No. / N° de classification Flammable, N.O.S. (Not Otherwise Specified)		Hazardous class No. / N° de classification 319		Hazardous class No. / N° de classification 319		Hazardous class No. / N° de classification 319		Hazardous class No. / N° de classification 319		Hazardous class No. / N° de classification 319	
International use only											
24-hour Number: Can/Re: 705-444-2011 ext 3400 USE IN CASE OF DANGEROUS GOODS EMERGENCY Peter Shepard											
Description / certificat d'émission: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this document are fully and accurately described above by the proper shipping name, and are classified, packed, labeled and marked, in full, with all respects (in proper condition for transport according to applicable International and provincial governmental regulations). Attestation de protection / déclaration: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce document est décrit correctement au moyen du nom d'expédition approprié et est classé, emballé, étiqueté et marqué en entier, dans toute la mesure nécessaire (dans un état correct pour le transport conformément aux réglementations internationales et provinciales applicables).											
Recipient / consignee certification: I certify that the information contained in Part C is correct and complete. I hereby declare that the information contained in Part C is correct and complete. / Attestation du récepteur/destinataire : J'atteste que tous les renseignements à la partie C sont exacts et complets.											
Signature _____ Tel. No. / N° de tél. Peter Shepard											
Special handling / Manutention spéciale <input type="checkbox"/> Knocked down <input type="checkbox"/> Anti-theft Closure											
Quantity shipped / Quantité expédiée Year / Année Month / Mois Day / Jour		Date received / Date de réception Year / Année Month / Mois Day / Jour		Time / Hours <input type="checkbox"/> AM <input type="checkbox"/> PM		Quantity received / Quantité reçue Year / Année Month / Mois Day / Jour		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour		Quantity shipped / Quantité expédiée Year / Année Month / Mois Day / Jour	
Instructions on reverse Instructions au verso											
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: PSHEPPARD	Date: Aug 6, 2015 9:59 AM	TCN-34393					
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority 0					
Attention:	Attention:						
Carrier: NTCL	Routing:	Waybill #:	Total Pcs. 3	Total Weight:			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
3	2002344		WASTE - GLYCOL (DRUM)				Asset# 328604, 326603, 321784
NOTE: All claims related to this shipment have to be filed with Raytheon within 45 hours of receipt.				Received By:	Date		
				Received By:	Date		

SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: TSHAW	Date: Aug 7, 2015 2:19 PM	TCN-34415					
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority 0					
Attention:	Attention:						
Carrier: NTCL	Routing:	Waybill #:	Total Pcs. 4	Total Weight:			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	2002406		WASTE - OIL (45 GALLON DRUM)				Asset# 331139, 331756, 331186, 322694
NOTE: All claims related to this shipment have to be filed with Raytheon within 45 hours of receipt.				Received By:	Date		
				Received By:	Date		

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Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: TSHAW	Date: Aug 7, 2015 2:31 PM	TCN-34417					
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority 0					
Attention:	Attention:						
Carrier: NTCL	Routing:	Waybill #:	Total Pcs. 4	Total Weight:			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4			2002406	WASTE - OIL (45 GALLON DRUM)			Asset# 331637, 331638, 331189, 329712

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date

SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: TSHAW	Date: Aug 7, 2015 2:39 PM	TCN-34418					
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority 0					
Attention:	Attention:						
Carrier: NTCL	Routing:	Waybill #:	Total Pcs. 4	Total Weight:			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4			2002406	WASTE - OIL (45 GALLON DRUM)			Asset# 331185, 331184, 326470, 330016

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date

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SHIPPING MANIFEST					
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8			NON NEGOTIABLE		
Filled By: TSHAW		Date: Aug 7, 2015 2:42 PM	TCN-34419		
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828			From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112		Priority 0
Attention:		Attention:			
Carrier: NTCL		Routing:	Waybill #:	Total Pcs. 3	Total Weight:
QTY Order	Type	Line Weight	Item	Description	WO or PO B/Code or S/N Remarks
3	2002406		WASTE - OIL (45 GALLON DRUM)	Asset# 332533, 329713	
NOTE: All claims related to this shipment have to be filed with Raytheon within 45 hours of receipt.					
			Received By:	Date	
			Received By:	Date	

¹See note below.

SHIPPING MANIFEST					
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8			NON NEGOTIABLE		
Filled By: TSHAW		Date: Aug 7, 2015 2:45 PM	TCN-34420		
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828			From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112		Priority 0
Attention:		Attention:			
Carrier: NTCL		Routing:	Waybill #:	Total Pcs. 4	Total Weight:
QTY Order	Type	Line Weight	Item	Description	WO or PO B/Code or S/N Remarks
4	2002406		WASTE - OIL (45 GALLON DRUM)	Asset# 329714, 326444, 331188, 331187	
NOTE: All claims related to this shipment have to be filed with Raytheon within 45 hours of receipt.					
			Received By:	Date	
			Received By:	Date	

¹ Note: TCN 34419 was the NWS Shipping Manifest for 3 drums. The asset numbers of the drums were 332533, 329713, and 331186. Asset number 331186 is not shown on the attached NWS Shipping Manifest.

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Filled By: TSHAW	Date: Aug 7, 2015 2:48 PM	TCN-34421					
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority 0					
Attention:	Attention:						
Carrier: NTCL	Routing:	Waybill #:	Total Pcs. 4	Total Weight:			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4			2002406	WASTE - OIL (45 GALLON DRUM)	Asset# 332526, 332527, 332040, 331639		
NOTE: All claims related to this shipment have to be filed with Raytheon within 45 hours of receipt.					Received By:	Date	
					Received By:	Date	

SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: TSHAW	Date: Aug 7, 2015 3:25 PM	TCN-34423					
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RYLEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Raytheon Canada Limited, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority 0					
Attention:	Attention:						
Carrier: NTCL	Routing:	Waybill #:	Total Pcs. 3	Total Weight:			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1			2002356	WASTE - OIL FILTERS (DRUM)	Asset# 326503,		
1			2003635	WASTE - FUEL FILTERS (DRUM)	Asset# 326504		
NOTE: All claims related to this shipment have to be filed with Raytheon within 45 hours of receipt.					Received By:	Date	
					Received By:	Date	

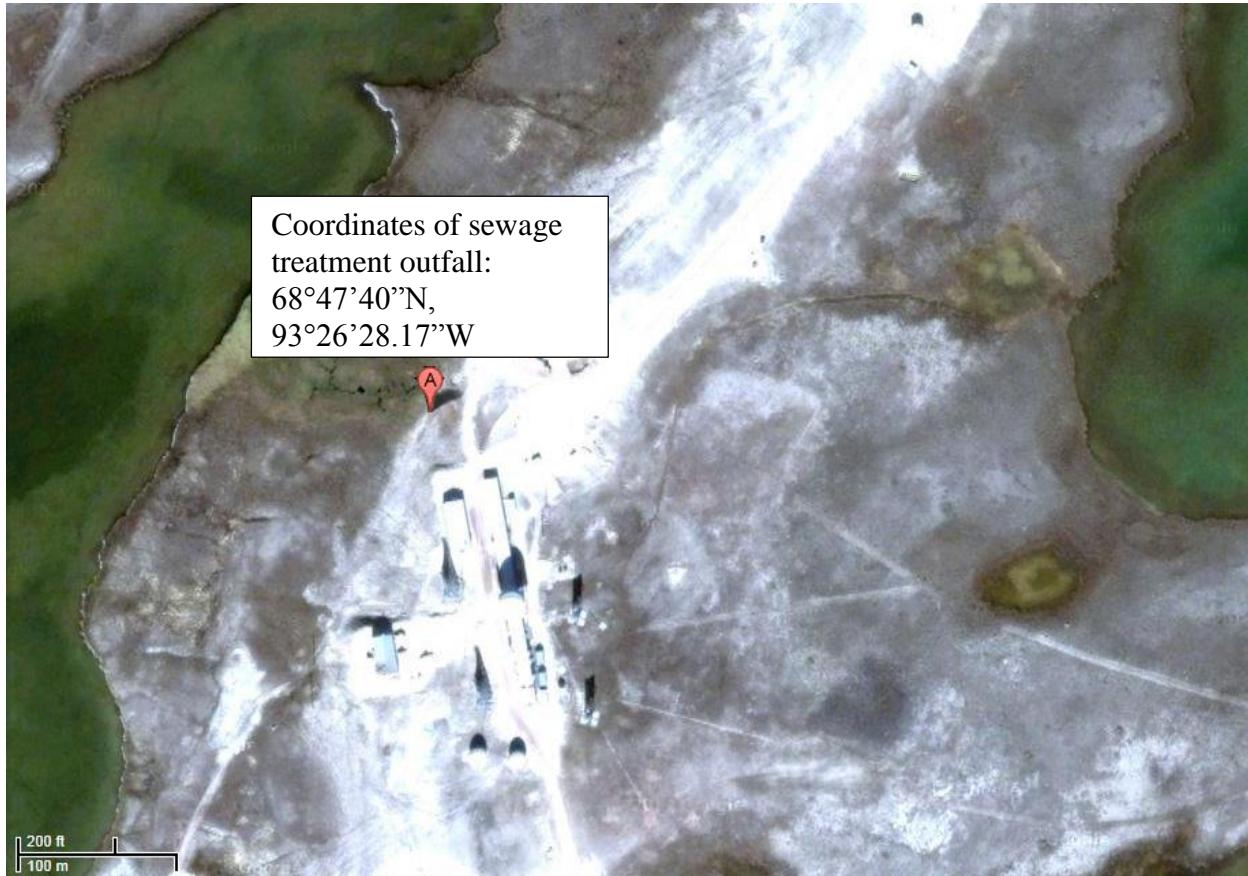
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ANNEX B - CAM-3 - SEWAGE EFFLUENT OUTFALL (CDL-2) LOCATION WITH COORDINATES



Coordinates of sewage treatment outfall: 68°47'40"N, 93°26'28.17"W

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ANNEX C - CAM-3 - ANALYSIS OF SEWAGE EFFLUENT

The sump of the sewage outfall was not pumped out therefore no samples were taken for laboratory analysis. This Annex has been left blank because there are no results to report.

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ANNEX D - CAM-3 - LOCATION OF BERMED FUEL STORAGE FACILITIES WITH COORDINATES

Licence	Location	Monitoring Station # (Final discharge point of bermed fuel storage facility)	Berm's location on-site	Berm's coordinates
3BC- SHE0919 Type "B"	CAM-3 North Warning System Site, Cambridge Bay, Kitikmeot Region, Nunavut	SHE-3	Summit, berm of tank W22A	68° 47' 42" N 93° 26' 20" W
			Beach, berm of tanks W22C and W22D	68° 48' 07" N 93° 36' 50" W

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ANNEX E - CAM-3 - ANALYSIS OF BERM WATER (EFFLUENT FROM BERMED FUEL STORAGE FACILITIES)

The berm water was not pumped out therefore no samples were taken for laboratory analysis. When staff arrived on-site for the summer 2015 preventive maintenance trip in August 2015 there was no water in the summit or beach berms. This Annex has been left blank because there are no results to report.

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