



**2013 Annual Report  
to the  
Nunavut Water Board**

**Licensee: Department of National Defence,  
Government of Canada**

**Licence: 3BC-SHE0919 – Type “B”**

**Location: CAM-3 North Warning System Site,  
Shepherd Bay, Kitikmeot Region, Nunavut**

**Report prepared by: Nasittuq Corporation,  
21 March 2014**



## **2013 Annual Report to the Nunavut Water Board**

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Shepherd Bay, Kitikmeot Region, Nunavut

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21 March 2014

### **Executive Summary**

This 2013 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-SHE0919 – Type “B”, Part B. General Conditions, paragraph 1.

CAM-3 is an unattended (unmanned) North Warning System radar site at Shepherd Bay, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by Nasittuq staff from CAM-M, Cambridge Bay, Nunavut.

The annual water usage was 90.8 cubic meters. This is well below the 1,440 cubic meters annually allowed by the licence.

The water contained in the berms of fuel storage facilities was sent for laboratory analysis and confirmed to be within effluent quality limits before the water was pumped out of the berms.

Hazardous waste was removed from the site for disposal outside of Nunavut. The waste went to Clean Harbors, P.O. Box 390, Ryley, AB, T0B 4A0. The waste was 23 drums of assorted waste (fuel, fuel filters, oil, oily rags, oil filters, fuel contaminated soil) and 1 crate of batteries.

Nonhazardous domestic solid waste was flown out to CAM-M and disposed of through a contract with the Hamlet of Cambridge Bay at the local landfill. Nasittuq has documented authorization from the community for receiving the waste.

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

Two outdoor spills occurred. The spills were:

- a. NT-NU Spill Line Report # 13-245. 2 litres of Jet A1 fuel were discovered at the helicopter dry break near tank W20D on 08 July 2013. Contaminated soil was placed in a container for future disposal at a licensed hazardous waste disposal facility outside of Nunavut.
- b. NT-NU Spill Line Report # 13-249. 1 litre of Jet A-1 was discovered near tank W22J on 09 July 2013. The tank was inspected and no leaks were found. Contaminated soil was placed in a container for future disposal at a licensed hazardous waste disposal facility outside of Nunavut.

The Spill Contingency Plan was revised. The Spill Response Flow Chart and the Emergency Contacts List were updated.

## **Introduction**

This 2013 Annual Report to the Nunavut Water Board (NWB) is submitted as required, by the licence issued 10 September 2009 3BC-SHE0919 – Type “B”, Part B. General Conditions, paragraph 1.

CAM-3 is an unattended (unmanned) North Warning System radar site at Shepherd Bay, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by Nasittuq staff from CAM-M, Cambridge Bay, Nunavut.

## **Water Drawn from SHE-1**

A total of 90.8 cubic meters was drawn from the water supply lake. This is well below the 1,440 cubic meters annually allowed by the licence. See Table 1 below for the volume of raw water drawn.

**Table 1. Monthly and annual raw water drawn at CAM-3.**

<b>Month</b>	<b>Raw water drawn in cubic meters (m<sup>3</sup>)</b>
January	0
February	0
March	0
April	0
May	0
June	9.6
July	53.2
August	23.2
September	0
October	4.9
November	0
December	0
<b>TOTAL</b>	<b>90.8</b>

## **Hazardous Waste and Waste Oil Disposal**

Hazardous waste and waste oil were sent to an approved hazardous waste disposal site 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 2 below for the list of items sent for disposal.

See **Annex A** for the shipping documents: the completed movement documents for waste regulated under the Transportation of Dangerous goods Regulations (TDGR) and Nasittuq manifests for nonregulated wastes.

**Table 2. Summary of waste sent for disposal from CAM-3.**

<b>Site</b>	<b>Description, TDG shipping name</b>	<b>Quantity</b>	<b>Movement Document or Nasittuq Manifest #</b>
CAM-3	Waste fuel	2 drums	Mov. Doc. 2464750-5
	Waste fuel, aviation, turbine engine		
CAM-3	Waste fuel filters	1 drum	Mov. Doc. 2464750-5
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		
CAM-3	Waste fuel contaminated soil	1 drum	Mov. Doc. 2464750-5
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		
CAM-3	Waste oily rags	2 drums	Mov. Doc. 2464750-5
	Waste solids containing flammable liquid, n.o.s. (fuel, aviation, turbine engine)		
CAM-3	Waste batteries, wet, filled with acid	1 crate	Mov. Doc. 2464750-5
CAM-3	Waste oil	16 drums	Nas. Man. 31418, 31421, 31422, 31464
CAM-3	Waste oil filters	1 drum	Nas. Man. 31430

### **Nonhazardous Solid Waste Disposal**

Nonhazardous domestic solid waste was flown out to CAM-M and disposed of through a contract with the Hamlet of Cambridge Bay at the local landfill. Nasittuq has documented authorization from the community for receiving the waste. See Table 3 below for the quantity of waste generated.

**Table 3. Monthly and annual nonhazardous domestic solid waste sent for disposal from CAM-3.**

<b>Month</b>	<b>Waste generated (kg)</b>
January	0
February	0
March	0
April	0
May	0
June	0
July	1,864
August	2,223
September	0
October	0
November	0
December	278
<b>TOTAL</b>	<b>4,365</b>

### **Monitoring Program**

See **Annex B** for the location of the sewage effluent outfall, SHE-2, with GPS 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.

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

See **Annex E** for analysis of berm water (water contained in the berms of fuel storage facilities). The results were confirmed to be within effluent quality limits before the water was pumped out of the berms.

### **Spills (Unauthorized Discharges)**

Two outdoor spills occurred. They are listed in Table 4 below.

**Table 4. Outdoor spills at CAM-3.**

<b>Date, Spill #</b>	<b>Product</b>	<b>Quantity</b>	<b>Cause and follow-up action</b>	<b>Location at CAM-3</b>
08 Jul 2013,  Spill # 13-245	Jet A1 fuel	2 litres	Site personnel discovered fuel contaminated soil around the helicopter dry break, as well as a mix of fuel and water in a drip tray. The dry break was examined and no leaks were found. The spill is believed to have occurred the last time the dry break was used. Contaminated soil was placed in a container for future disposal at a licensed hazardous waste disposal facility outside of Nunavut.	At helicopter dry break, near tank W20D
09 Jul 2013,  Spill # 13-249	Jet A1 fuel	1 litre	A patch of fuel contaminated soil was found near bulk fuel tank W22J during an inspection. The cause of the spill is unknown. The tank was inspected, and no leaks were found. Contaminated soil was placed in a container for future disposal at a licensed hazardous waste disposal facility outside of Nunavut.	Near tank W22J

### **Revisions to the Spill Contingency Plan**

The Spill Contingency Plan was revised. The changes were:

- minor formatting changes;
- the Spill Response Flow Chart was updated; and
- the Emergency Contacts List was updated.

### **Progressive reclamation work undertaken**

None undertaken.

## **Annex A**

### **2013 Movement document for regulated waste and Nasittuq manifests for non-regulated waste**





MOVEMENT DOCUMENT / MANIFEST  
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.  
Ce document de mouvement/manifester est conforme aux règlements fédéraux et provinciaux en matière de transport et de l'environnement.

1: NAFSLI001-1 2: NALFSLD002 3: CH403227

10P, 10R

4: LBLA

7C8255022-002

2464750-5

98-9, 99-7

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

<b>A</b> Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>NUG100003</b>		<b>B</b> Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>AIT000001K</b>		<b>C</b> Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>ABR1089</b>	
Company name / Nom de l'entreprise <b>DND C/O Nasittuq Corp</b>		Company name / Nom de l'entreprise <b>Northern Transportation Company Ltd</b>		Company name / Nom de l'entreprise <b>ABR1089</b>	
Mailing address / Adresse postale City/Ville Province Postal code / Code postal <b>22 Wing, Bldg 109, Hornell Heights, ON L1R 1P0</b>		Mailing address / Adresse postale City/Ville Province Postal code / Code postal <b>1-104 Ave Hay River, NT X0E 0G9</b>		Mailing address / Adresse postale City/Ville Province Postal code / Code postal <b>1 Sm. Th @ ntel. com</b>	
E-mail / Courriel électronique <b>(705) 494-2011 EXT 944</b>		E-mail / Courriel électronique <b>1 Sm. Th @ ntel. com</b>		E-mail / Courriel électronique <b>867 874-5103</b>	
Shipping site address / Adresse du lieu de l'expédition <b>NWS LSS Can-3 Shepherd BAY</b>		Port of entry / Point d'entrée <b>Can 3</b>		Port of exit / Point de sortie <b>Hay River</b>	
City/Ville Province Postal code / Code postal <b>Shepherd BAY NU X0B 0C0</b>		Port of entry / Point d'entrée <b>Can 3</b>		Port of exit / Point de sortie <b>Hay River</b>	
Intended Receiver / consignee Réceptionnaire / destinataire prévu <b>Clean Harbors</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>ABR 1089</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>ABR 1089</b>	
Mailing address / Adresse postale City/Ville Province Postal code / Code postal <b>PO BOX 390 Ryley AB T0B 4A0</b>		Mailing address / Adresse postale City/Ville Province Postal code / Code postal <b>PO BOX 390 Ryley AB T0B 4A0</b>		Mailing address / Adresse postale City/Ville Province Postal code / Code postal <b>PO BOX 390 Ryley AB T0B 4A0</b>	
E-mail / Courriel électronique <b>(705) 494-2011</b>		E-mail / Courriel électronique <b>(705) 494-2011</b>		E-mail / Courriel électronique <b>(705) 494-2011</b>	
Receiving site address / Adresse du lieu de réception <b>2 km North Hwy 14, Secondary Rd 854</b>		Receiving site address / Adresse du lieu de réception <b>2 km North Hwy 14, Secondary Rd 854</b>		Receiving site address / Adresse du lieu de réception <b>2 km North Hwy 14, Secondary Rd 854</b>	
City/Ville Province Postal code / Code postal <b>Ryley Alberta T0B 4A0</b>		City/Ville Province Postal code / Code postal <b>Ryley Alberta T0B 4A0</b>		City/Ville Province Postal code / Code postal <b>Ryley Alberta T0B 4A0</b>	
Prox. code Code prox.		Shipping name Nom de l'expédition		Class / Classe Système de classement	
429		WASTE FUEL, AVIATION		3 UN	
431		WASTE SOLIDS, COAL		4.1 UN	
437		WASTE SOLIDS, COAL		4.1 UN	
442		WASTE BATTERIES, WET		8 UN	
		FILLED WITH ACID		8 UN	
Flash point 38°C		EQUIVALENCY CERTIFICATE SU 8074		24-HOUR NUMBER: CANUTEC 613-996-6666	
USE IN CASE OF DANGEROUS GOODS EMERGENCY		USE ONLY			
Name of authorized person (sign) Nom de l'agent autorisé (signature)		Name of authorized person (sign) Nom de l'agent autorisé (signature)		Name of authorized person (sign) Nom de l'agent autorisé (signature)	
DAVID TRUSSLER		DAVID TRUSSLER		DAVID TRUSSLER	
Signature		Signature		Signature	
Date stamped / Date d'expédition Year / Année Month / Mois Day / Jour <b>13 / 10 / 23</b>		Date stamped / Date d'expédition Year / Année Month / Mois Day / Jour <b>13 / 10 / 23</b>		Date stamped / Date d'expédition Year / Année Month / Mois Day / Jour <b>13 / 10 / 23</b>	

MDE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 4 white / blanc



NASITTUQ							
NASITTUQ MANIFEST							
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7							
NON NEGOTIABLE							
Filled By: <b>DTRUSSLER</b>	Date: 2013-07-24 8:24 AM						
TCN-31418							
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RILEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Nasittuq Corporation, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112						
Priority <b>0</b>							
Attention:	DTRUSSLER						
Carrier: NTCL	Routing: 1.63 M3						
Waybill #:	Total Pcs. 1						
Total Weight: 844-KGS							
QTY Order	Type PALLET	Line 844- KGS	Item 2002406	Description WASTE - OIL (45 GALLON DRUM)	WO or PO	B/Code or S/N	Remarks NON-REGULATED/ ASSET'S: 325827 / 325826 / 321085 / 323281
4.0							
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.				Received By: _____ Date _____			
				Received By: _____ Date _____			

NASITTUQ							
NASITTUQ MANIFEST							
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7							
NON NEGOTIABLE							
Filled By: <b>DTRUSSLER</b>	Date: 2013-07-24 9:45 AM						
TCN-31421							
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RILEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Nasittuq Corporation, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112						
Priority <b>0</b>							
Attention:	DTRUSSLER						
Carrier: NTCL	Routing: 1.63 M3						
Waybill #:	Total Pcs. 1						
Total Weight: 844-KGS							
QTY Order	Type PALLET	Line 844- KGS	Item 2002406	Description WASTE - OIL (45 GALLON DRUM)	WO or PO	B/Code or S/N	Remarks NON-REGULATED / ASSET'S: 321056 / 320279 / 324815 / 318335
4.0							
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.				Received By: _____ Date _____			
				Received By: _____ Date _____			



NASITTUQ MANIFEST						
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7						
NON NEGOTIABLE						
Filled By: <b>DTRUSSLER</b>		Date: 2013-07-24 9:54 AM		TCN-31422		
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RILEY, AB, T0B 4A0 CA 780-663-3828		From: CAM-3, SHEPHERD BAY, DND Storeroom Nasittuq Corporation, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112		Priority <b>0</b>		
Attention:		Attention:		DTRUSSLER		
Carrier: NTCL		Routing: 1.63 M3		Waybill #: 1		
				Total Pcs. 1		
				Total Weight: 844-KGS		
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
4.0	PALLET	844-KGS	2002406	WASTE - OIL (45 GALLON DRUM)		
						Remarks NON REGULATED / ASSET'S: 325564 / 324824 / 325992 / 323336
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.						Received By: _____ Date _____
						Received By: _____ Date _____

NASITTUQ MANIFEST						
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7						
NON NEGOTIABLE						
Filled By: <b>DTRUSSLER</b>		Date: 2013-07-24 5:34 PM		TCN-31430		
Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RILEY, AB, T0B 4A0 CA 780-663-3828		From: CAM-3, SHEPHERD BAY, DND Storeroom Nasittuq Corporation, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112		Priority <b>0</b>		
Attention:		Attention:		DTRUSSLER		
Carrier: NTCL		Routing: 0.65 M3		Waybill #: 1		
				Total Pcs. 1		
				Total Weight: 113-KGS		
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
1.0	PALLET	113-KGS	2002356	WASTE - OIL FILTERS (DRUM)		
						Remarks NON-REGULATED / ASSET: 323434 / 1 DRUM ON PALLET
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.						Received By: _____ Date _____
						Received By: _____ Date _____



## NASITTUQ MANIFEST

Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7

NON NEGOTIABLE

Filled By: <b>DTRUSSLER</b>	Date: 2013-07-28 4:33 PM	TCN-31464
--------------------------------	-----------------------------	-----------

Ship To: CLEAN HARBORS CANADA INC. PO BOX 390 RILEY, AB, T0B 4A0 CA 780-663-3828	From: CAM-3, SHEPHERD BAY, DND Storeroom Nasittuq Corporation, NWS LSS Cambridge Bay, P.O. Bag 1050 Cambridge Bay, NU, X0B 0C0 867-983-2112	Priority <b>0</b>
--	--	----------------------

Attention:		Attention:	DTRUSSLER
------------	--	------------	-----------

Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NTCL	1.63 M3		1	844-KGS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4.0	PALLET	844- KGS	2002406	WASTE - OIL (45 GALLON DRUM)			NON REGULATED / ASSET'S: 326471 / 321126 / 326472 / 322652

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

Received By:	Date
--------------	------

Received By:	Date
--------------	------

## Annex B

### CAM-3 - Sewage Outfall Location (SHE-2) with GPS Co-ordinates



## **Annex C**

**This Annex has been left blank intentionally.  
(The sump of the sewage outfall was not pumped out therefore no samples were  
taken for laboratory analysis.)**



## Annex D

### CAM-3 - Bermed Fuel Storage Facilities with GPS Co-ordinates

Licence	Location	Monitoring Station # (Final Discharge Point of Bermed Fuel Storage Facility)	Berm's Location On- site	Berm's GPS co-ordinates
3BC-SHE0919 Type "B"	CAM-3 North Warning System Site, Shepherd Bay, Kitikmeot Region, Nunavut	SHE-3	- Summit (near helipad) - 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

## **Annex E**

### **CAM-3 - Analysis of Berm Water (Effluent from Bermed Fuel Storage Facilities)**





**15 June 2013**  
**Summit, Berm of tank W22A**  
**Page 1 of 2**

**EXOVA OTTAWA**

**Certificate of Analysis**



Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:   
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1312440  
Date Submitted: 2013-06-22  
Date Reported: 2013-06-28  
Project: CAM-3  
COC #: 114152

				Lab I.D.	1035658
				Sample Matrix	Water
				Sample Type	
				Sampling Date	2013-06-15
				Sample I.D.	Summit CAM-3
				Guideline	W22A1 - Dis
Group	Analyte	MRL	Units		
Metals	Cd	0.0001	mg/L		0.0001
	Co	0.0002	mg/L		<0.0002
	Cr	0.001	mg/L		0.001
	Cu	0.001	mg/L		0.010
	Ni	0.005	mg/L		<0.005
	Pb	0.001	mg/L		<0.001

Guideline = \* = Guideline Exceedence  
\*\* = Analysis completed at Mississauga, Ontario.  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 3

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,  
MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable  
Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO =  
Interim Provincial Water Quality Objective, TDR = Typical Desired Range



15 June 2013  
Summit, Berm of tank W22A  
Page 2 of 2

EXOVA OTTAWA

Certificate of Analysis



Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:   
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1312439  
Date Submitted: 2013-06-22  
Date Reported: 2013-07-02  
Project: CAM-3  
COC #: 114152

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1035657 Water  2013-06-15 Summit CAM-3 W22A1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	pH	1.00			7.60
Metals	Aqua-Regia Digest		mg/L		y
	As	0.02	mg/L		<0.02
	Zn	0.04	mg/L		<0.04
Nutrients	Phenols	0.001	mg/L		<0.001
Oil & Grease	Oil & Grease - Total	1	mg/L		<1
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1
Subcontract	Hg	0.0001	mg/L		<0.0001
VOCs	Benzene	0.5	ug/L		<0.5
	Ethylbenzene	0.5	ug/L		<0.5
	Toluene	0.5	ug/L		<0.5
	Toluene-d8	1	%		113

Guideline = \* = Guideline Exceedence  
\* = Analysis completed at Mississauga, Ontario.  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,  
MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable  
Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPIWQO  
= Interim Provincial Water Quality Objective, TDR = Typical Desired Range

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 5



**15 June 2013**  
**Beach, Berm of tanks W22C and W22D**  
**Page 1 of 2**

**EXOVA OTTAWA**

**Certificate of Analysis**



Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:   
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1312438  
Date Submitted: 2013-08-22  
Date Reported: 2013-08-28  
Project: CAM-3  
COC #: 115440

Group		Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline
Metals		Cd	0.0001	mg/L	1035656 Water 2013-08-15 Beach CAM-3 W22C - Dis <0.0001
		Co	0.0002	mg/L	<0.0002
		Cr	0.001	mg/L	0.001
		Cu	0.001	mg/L	0.001
		Ni	0.005	mg/L	<0.005
		Pb	0.001	mg/L	<0.001

Guideline = \* = Guideline Exceedence  
\*\* = Analysis completed at Mississauga, Ontario.  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 3

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,  
MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable  
Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO =  
Interim Provincial Water Quality Objective, TDR = Typical Desired Range



**15 June 2013**  
**Beach, Berm of tanks W22C and W22D**  
**Page 2 of 2**

**EXOVA OTTAWA**

Certificate of Analysis



Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:   
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1312437  
Date Submitted: 2013-06-22  
Date Reported: 2013-07-02  
Project: CAM-3  
COC #: 115440

				Lab I.D.	1035655
				Sample Matrix	Water
				Sample Type	
				Sampling Date	2013-06-15
				Sample I.D.	Beach CAM-3 W22C
Group	Analyte	MRL	Units	Guideline	
General Chemistry	pH	1.00			7.28
Metals	Aqua-Regia Digest		mg/L		Y
	As	0.02	mg/L		<0.02
	Zn	0.04	mg/L		<0.04
Nutrients	Phenols	0.001	mg/L		<0.001
Oil & Grease	Oil & Grease - Total	1	mg/L		<1
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1
Subcontract	Hg	0.0001	mg/L		<0.0001
VOCs	Benzene	0.5	ug/L		<0.5
	Ethylbenzene	0.5	ug/L		<0.5
	Toluene	0.5	ug/L		<0.5
	Toluene-d8	1	%		110

Guideline = \* = Guideline Exceedence  
\*\* = Analysis completed at Mississauga, Ontario.  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,  
MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable  
Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO  
= Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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