



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

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

**Licence: 3BC-BAF0919 – Type “B”**

**Location: BAF-3 North Warning System Site,  
Brevoort Island, Qikiqtani Region, Nunavut**

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



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### **Executive Summary**

This 2013 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-BAF0919 – Type "B", Part B. General Conditions, paragraph 1.

BAF-3 is an unattended (unmanned) North Warning System radar site on Brevoort Island, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by Nasittuq staff based out of the Logistics Support Site - Iqaluit (LSS-Q), Iqaluit, Nunavut.

The annual water usage was 1,251.8 cubic meters. This is below the 1,750 cubic meters annual maximum 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 Safety Kleen, 2730 boulevard Industriel, Chambly, QC, J3L 4V2. The waste was 75 drums of assorted waste (fuel, fuel soaked absorbent, fuel contaminated activated carbon, oil, glycol, paint, etc.) and 2 crates of waste batteries.

Nonhazardous domestic solid waste was flown out to LSS-Q and disposed of at Iqaluit's 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.

No outdoor spills occurred.

The Spill Contingency Plan was revised. The table of fuel tanks was updated.

2013 was Year 7 of the remediation and monitoring of the January 2007 Jet A1 fuel spill. Monitoring continued at the upper site where the 2007 spill occurred. Work was done at the mid-site biopile area. There was contaminated soil where the last biopiles used to be located. This soil was removed and placed in a new biopile. Effluent from the biopiles was sent for laboratory analysis and confirmed to be within effluent quality limits as required by the water licence. Monitoring wells around the biopiles were sampled and analyzed as required by the water licence.



## **Introduction**

This 2013 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-BAF0919 – Type “B”, Part B. General Conditions, paragraph 1.

BAF-3 is an unattended (unmanned) North Warning System radar site on Brevoort Island, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by Nasittuq staff based out of the Logistics Support Site - Iqaluit (LSS-Q), Iqaluit, Nunavut.

## **Water Drawn from Water Supply Lake**

The annual water usage was 1,251.8 cubic meters. This is below the 1,750 cubic meters annual maximum allowed by the current licence. See Table 1 below for the volume of raw water drawn.

**Table 1. Monthly and annual raw water drawn.**

<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	0
July	0
August	1,251.8
September	
October	
November	
December	
<b>TOTAL</b>	<b>1,251.8</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 went to Safety Kleen, 2730 boulevard Industriel, Chambly, QC, J3L 4V2. The waste receiver number for Safety Kleen is 1144094969.

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 non-regulated waste.

**Table 2. Summary of waste sent for disposal.**

<b>Site</b>	<b>Description, TDG shipping name</b>	<b>Quantity</b>	<b>Movement Document or Nasittuq Manifest #</b>
BAF-3	Waste fuel contaminated activated carbon	23 drums	Mov. Doc. 2464777-8
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		
BAF-3	Waste fuel, aviation, turbine engine	16 drums	Mov. Doc. 2464777-8
BAF-3	Waste fuel water mixture	4 drums	Mov. Doc. 2464777-8
	Waste fuel, aviation, turbine engine mixture		
BAF-3	Waste paint	1 drum	Mov. Doc. 2464778-6
BAF-3	Waste paint related materials	1 drum	Mov. Doc. 2464778-6
BAF-3	Waste fuel soaked absorbent	14 drums	Mov. Doc. 2464778-6
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		
BAF-3	Batteries, wet, filled with acid	1 crate	Mov. Doc. 2464779-4
BAF-3	Batteries, wet, non-spillable	1 crate	Mov. Doc. 2464779-4
BAF-3	Waste aerosols	1 drum	Mov. Doc. 2464779-4
BAF-3	Waste fuel filters	1 drum	Mov. Doc. 2464779-4
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		

**Table 2. Summary of waste sent for disposal (continued).**

Site	Description, TDG shipping name	Quantity	Movement Document or Nasittuq Manifest #
BAF-3	Waste glycol	5 drums	Nas. Man. 31398, 31399, 31400, 31402
BAF-3	Waste oil	8 drums	Nas. Man. 31398, 31399, 31400, 31401
BAF-3	Waste oil filters	1 drum	Nas. Man. 31397

### **Nonhazardous Solid Waste Disposal**

Nonhazardous domestic solid waste was flown out to LSS-Q and disposed of at Iqaluit's landfill. Nasittuq has documented authorization from the community for receiving the waste. See Table 3 below for the quantity of waste generated. The BAF-3 landfill still exists (see **Annex B**).

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

Month	Waste generated (kg)
January	94
February	66
March	40
April	30
May	126
June	24
July	140
August	280
September	499
October	262
November	69
December	49
<b>TOTAL</b>	<b>1,679</b>

### **Monitoring Program**

See **Annex C** for the location of the sewage effluent outfall, Monitoring Station # BAF-2, with GPS co-ordinates. A sump for the sewage outfall was built in 2010.

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

See **Annex E** for the list of bermed fuel storage facilities, Monitoring Station # BAF-4, with GPS co-ordinates.

See **Annex F** for the 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.

See **Annex G** for the analysis of untreated effluent from the mid-site biopiles, for the final discharge point from the landfarm (Monitoring Station # BAF-3), and for the biopile monitoring wells (Monitoring Station # BAF-5).

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

No outdoor spills occurred.

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

The Spill Contingency Plan was revised. The table of fuel tanks (Appendix 8) was updated.



### **Progressive reclamation work undertaken**

2013 was Year 7 of the remediation and monitoring of the January 2007 Jet A1 fuel spill (reported in the 2007 Annual Report).

Monitoring continued at the upper site where the 2007 spill occurred. See **Annex G** for information on the monitoring and for recommendations for 2014.

Work was done at the mid-site biopile area. The last two biopiles from the summit spill were decommissioned in 2012. Soil samples collected from beneath former biopiles (BP) 11 and 13 showed residual impacts above the Canadian Council of Ministers of the Environment (CCME) Canada Wide Standards for Petroleum Hydrocarbons (CWS for PHC) and above Dew Line Cleanup Criteria (for BP 11 only). Therefore, in 2013, the soil from beneath former BP 11 and 13 was removed and placed in new BP 17.

Untreated effluent from the biopiles was sampled and analyzed as required by the water licence (see **Annex G** for the results) and confirmed to be within effluent quality limits. Samples were taken in July and September.

Monitoring wells around the biopiles were sampled and analyzed as required by the water licence (see **Annex G** for the results). Samples were taken in July and September. In September, monitoring well 5 (MW 5) had insufficient water to analyze for all parameters listed in the water licence, therefore priority was given to Oil & Grease, total metals (arsenic and zinc were done; mercury was not), and phenols. In July and September, MW 5 exceeded the criterion for Oil & Grease. In July and September, all monitoring wells exceeded the criterion for Zinc (total). The cause of these exceedances is unknown.



## **Annex A**

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

Note: On some completed movement documents (i.e. Parts A, B, and C completed), the shipping names in Part A are too faint to read. In such cases, another copy of the movement document with a legible Part A has been included.



**2464777-8**

<b>A Generator / consigneur</b> Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		<b>B Carrier</b> Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		<b>C Receiver / consignee</b> Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	
Company name / Nom de l'entreprise DND-D. L. VAC-HUA CORP		Company name / Nom de l'entreprise DND-D. L. VAC-HUA CORP		Company name / Nom de l'entreprise DND-D. L. VAC-HUA CORP	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal 12 Wing King Kong Road, Kowloon, Hong Kong		Mailing address / Adresse postale City / Ville Province Postal code / Code postal 12 Wing King Kong Road, Kowloon, Hong Kong		Mailing address / Adresse postale City / Ville Province Postal code / Code postal 12 Wing King Kong Road, Kowloon, Hong Kong	
E-mail / Courriel électronique Tel. No. / N° de tél. ( )		E-mail / Courriel électronique Tel. No. / N° de tél. ( )		E-mail / Courriel électronique Tel. No. / N° de tél. ( )	
Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal 12 Wing King Kong Road, Kowloon, Hong Kong		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>er</sup> remorqueur - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorqueur - wagon Registration No. / N° d'immatriculation: Prov.:		Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure 12/11/2011 10:00 AM	
Intended Receiver / consignee Réceptionnaire / destinataire prévu Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. ( )		Port of entry / Point d'entrée International use only Port of exit / Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to this receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au récepteur / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.		Receiving site address / Adresse du lieu de destination City / Ville Province Postal code / Code postal 12 Wing King Kong Road, Kowloon, Hong Kong	
Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Year / Année Month / Mois Day / Jour Signature		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Year / Année Month / Mois Day / Jour Signature		If waste or recyclable material to be transferred, specify intended company name! Si les déchets ou matières recyclables doivent être transférés, précisez le nom du destinataire. Registration No. / Provincial ID No. N° d'immatriculation/d'id. provincial	
Prov. code Code prov.		Shipping name Appellation réglementaire		Quantity received Quantité reçue	
Class / Classe Sub-class / Sous-classe		UN No. NU		Units Unités	
Packing / Risk Gr. Emballage / de risque		Quantity shipped Quantité expédiée		Packaging / Containment Codes int.-ext.	
National code in country of export / Code du pays Exportation		National code in country of import / Code du pays Importation		Customs code(s) Code(s) de douanes	
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Shipment Envoi	
Off / De		D or R code Code É ou R		C code Code C	
Base/Annex VII or OECD Code Annexe VIII de Bâle ou Code OCDE		H code Code H		Y code Code Y	
If handling code "Other" (specify) Si code de manutention « autre » (spécifier)		Receiver / consignee certification: I certify 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.		Names of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)	
Signature		Signature		Signature	
Special handling / Manutention spéciale <input type="checkbox"/> Attached / Joint <input type="checkbox"/> As follows / Comme ci:		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour		Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour		Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour		Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	

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# 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/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2464777-8

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

<b>A Generator / consigneur</b> <b>Producteur / expéditeur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial NUG 100003 Company name / Nom de l'entreprise DND/CLONASIT/HUG CORP. Mailing address / Adresse postale 22 WING RIDG 109, HORNEILL HEIGHTS, ON P6H 1P0 City / Ville E-mail / Courriel électronique Tel. No. / N° de tél. ( ) Shipping site address / Adresse du lieu de l'expédition MWS LRR BAF-3 NUNAVUT City / Ville BREVVOORT Island Postal code / Code postal		<b>B Carrier</b> <b>Transporteur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial NUC 200001 Company name / Nom de l'entreprise NUNAVUT EASTERN ARCTIC SHIPPING Mailing address / Adresse postale PORT OF VALLEYFIELD, QC J6T 6L4 City / Ville E-mail / Courriel électronique Tel. No. / N° de tél. 468-373-3379 Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>re</sup> remorque - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon Registration No. / N° d'immatriculation Port of entry / Point d'entrée Port of exit / Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au récepteur / destinataire tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) CLAUDIA 13KHA Year / Année Month / Mois Day / Jour Signature 1/3 09 23 Claudia B. KHA		<b>C Receiver / consignee</b> <b>Récepteur / destinataire</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Receiver / consignee information same as in Part A Les renseignements du récepteur / destinataire est la même qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. ( ) Receiving site address / Adresse du lieu de destination Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Quantity received / Quantité reçue Units / Unités Comments / Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Accepté Refused / Refusé Pack / Cart. Descript. / Veh. If handling code "Other" (specify) Si code de manutention « autre » (spécifier) Receiver / consignee certification: I certify 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. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. ( ) Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
Prov. code / Code prov. Shipping name / Appellation réglementaire Class / Classe Sub. class (s) / Classe(s) sub. UN No. / N° NU Packing / Emballage Gr. d'emballage / de risque Quantity shipped / Quantité expédiée Units / Unités L or / ou kg Packaging / Conditionnement Codes Int.-ext. Phys. state / État phys. (i) WASTE SOLIDS CONTAINING FLAMMABLE LIQUID, A.Q.S. (FUEL, COUCTION, TURBINE ENGINE) 4.1 UN 3175 II 5001 KG 23 01 S (ii) WASTE FUEL, AVIATION, TURBINE ENGINE *X 3 UN 1863 III 2415 L 16 01 L (iii) WASTE FUEL AVIATION TURBINE ENGINE *X 3 UN 1863 III 655 L 4 01 L		Notice No. / N° de notification Notice Line No. / N° de ligne de la notification Shipment / Envoi Of / De D or R code / Code E 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 Export / Exportation Import / Importation Customs code(s) / Code(s) de douanes (i) ** FLASH POINT 38°C (ii) 24-HOUR NUMBER: CANUTEC 615-996-6666 Collect only (iii) USE IN CASE OF DANGEROUS GOODS EMERGENCY Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. Don DAVISON 43942011 2944			

MOE 04-1917 (07/07)

Retained by Consignor (Generator) - Gardée par l'expéditeur

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# 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/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2464778-6

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

<b>A Generator / consigneur</b> Producteur / expéditeur		<b>B Carrier</b> Transporteur		<b>C Receiver / consignee</b> Réceptionnaire / destinataire	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	
Company name / Nom de l'entreprise		Company name / Nom de l'entreprise		Company name / Nom de l'entreprise	
Mailing address / Adresse postale		Mailing address / Adresse postale		Mailing address / Adresse postale	
City / Ville		City / Ville		City / Ville	
Province		Province		Province	
Postal code / Code postal		Postal code / Code postal		Postal code / Code postal	
E-mail / Courriel électronique		E-mail / Courriel électronique		E-mail / Courriel électronique	
Tel. No. / N° de tél.		Tel. No. / N° de tél.		Tel. No. / N° de tél.	
Shipping site address / Adresse du lieu de l'expédition		Vehicle / Véhicule		Receiving site address / Adresse du lieu de destination	
City / Ville		Trailer - Rail car No. 1 1 <sup>er</sup> remorque - wagon		City / Ville	
Province		Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon		Province	
Postal code / Code postal		Registration No. / N° d'immatriculation		Postal code / Code postal	
Intended Receiver / consignee Réceptionnaire / destinataire prévu		Port of entry Point d'entrée		Date received / Date de réception	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Port of exit Point de sortie		Year / Année	
Mailing address / Adresse postale		Carrier Certification / I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur : 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.		Month / Mois	
City / Ville		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)		Day / Jour	
Province		Tel. No. / N° de tél.		Time / Heure	
Postal code / Code postal		Signature		<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
E-mail / Courriel électronique		Year / Année		If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire	
Tel. No. / N° de tél.		Month / Mois		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	
Receiving site address / Adresse du lieu de l'expédition		Day / Jour		Quantity received / Quantité reçue	
City / Ville		Signature		Units / L or / ou kg	
Province		Year / Année		Comments / Commentaires	
Postal code / Code postal		Month / Mois		Handling Code / Code de manutention	
Prov. code / Code prov.		Day / Jour		Shipment / Envoi	
Shipping name / Appellation réglementaire		Signature		Accepted / Refused	
Classes / Classes		Signature		Decom. / V. Cont.	
Sub. classes / Sub. classes		Signature			
UN No. / N° UN		Signature			
Packing / rsk. gr. / Gr. d'emballage / de risque		Signature			
Quantity shipped / Quantité expédiée		Signature			
Units / L or / ou kg		Signature			
Packaging / Conteneur		Signature			
No. / N°		Signature			
Codes Int.-ext.		Signature			
Phys. state / Etat phys.		Signature			
National code in country of / Code du pays		Signature			
Export / Importation		Signature			
Customs code(s) / Code(s) de douanes		Signature			
Notice No. / N° de notification		Signature			
Notice Line No. / N° de ligne de la notification		Signature			
Shipment / Envoi		Signature			
Of / De		Signature			
D or R code / Code D ou R		Signature			
C code / Code C		Signature			
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE		Signature			
H code / Code H		Signature			
Y code / Code Y		Signature			
National code in country of / Code du pays		Signature			
Export / Importation		Signature			
Customs code(s) / Code(s) de douanes		Signature			
Notice No. / N° de notification		Signature			
Notice Line No. / N° de ligne de la notification		Signature			
Shipment / Envoi		Signature			
Of / De		Signature			
D or R code / Code D ou R		Signature			
C code / Code C		Signature			
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE		Signature			
H code / Code H		Signature			
Y code / Code Y		Signature			
National code in country of / Code du pays		Signature			
Export / Importation		Signature			
Customs code(s) / Code(s) de douanes		Signature			
Notice No. / N° de notification		Signature			
Notice Line No. / N° de ligne de la notification		Signature			
Shipment / Envoi		Signature			
Of / De		Signature			
D or R code / Code D ou R		Signature			
C code / Code C		Signature			
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE		Signature			
H code / Code H		Signature			
Y code / Code Y		Signature			
National code in country of / Code du pays		Signature			
Export / Importation		Signature			
Customs code(s) / Code(s) de douanes		Signature			
Notice No. / N° de notification		Signature			
Notice Line No. / N° de ligne de la notification		Signature			
Shipment / Envoi		Signature			
Of / De		Signature			
D or R code / Code D ou R		Signature			
C code / Code C		Signature			
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE		Signature			
H code / Code H		Signature			
Y code / Code Y		Signature			
National code in country of / Code du pays		Signature			
Export / Importation		Signature			
Customs code(s) / Code(s) de douanes		Signature			
Notice No. / N° de notification		Signature			
Notice Line No. / N° de ligne de la notification		Signature			
Shipment / Envoi		Signature			
Of / De		Signature			
D or R code / Code D ou R		Signature			
C code / Code C		Signature			
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE		Signature			
H code / Code H		Signature			
Y code / Code Y		Signature			
National code in country of / Code du pays		Signature			
Export / Importation		Signature			
Customs code(s) / Code(s) de douanes		Signature			
Notice No. / N° de notification		Signature			
Notice Line No. / N° de ligne de la notification		Signature			
Shipment / Envoi		Signature			
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C code / Code C		Signature			
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE		Signature			
H code / Code H		Signature			
Y code / Code Y		Signature			
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# 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/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2464778-6

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

<b>A Generator / consigneur</b> Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial MUG100003 Company name / Nom de l'entreprise DND C/O NASITTUQ CORP Mailing address / Adresse postale 222 WING BLDS 109, HORNELL HEIGHTS ON R6H 3P0 City / Ville Tel. No. / N° de tél. E-mail / Courriel électronique Shipping site address / Adresse du lieu de l'expédition MWS LRR BAF-3 City / Ville Brevort Island Nunavut Intended Receiver / consignee Réceptionnaire / destinataire prévu SAFETY KIEEN Mailing address / Adresse postale 6785 ROUTE 133, VILLE-SIE CAROLINE, QC J5C 1B6 City / Ville Tel. No. / N° de tél. E-mail / Courriel électronique Receiving site address / Adresse du lieu de l'expédition 2730, boulevard Industriel City / Ville CHAMBLY QC Postal code / Code postal J3L 4V2		<b>B Carrier</b> Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial NUC 200001 Company name / Nom de l'entreprise NUNAVUT EASTERN ARCTIC SHIPPING (NEAS) Mailing address / Adresse postale PORT OF VALLEYFIELD, QC J6T 6L4 City / Ville Tel. No. / N° de tél. E-mail / Courriel électronique Vehicle / Véhicule Registration No. / N° d'immatriculation Port of entry Point d'entrée Port of exit Point de sortie Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: 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. Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): CLAUDIA ISKRA Year / Année Month / Mois Day / Jour Signature: 13 09 23 (Claudia Iskra)		<b>C Receiver / consignee</b> Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire est le même qu'à la Partie A Yes / Oui No, complete the box below / Non, remplir la case ci-dessous Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. Receiving site address / Adresse du lieu de destination Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure A.M. P.M. If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Quantity received / Quantité reçue Units / Unités Lor / ou kg Comments / Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Refusé Decant. / Veh. If handling code "Other" (specify) Si code de manutention « autre » (spécifier) Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. Attestation du réceptionnaire / destinataire: J'atteste que tous les renseignements à la partie C sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. Special handling / Manutention spéciale Attached / Joint As follows / Ci contre Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure A.M. P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
Prev. code Code prov. Shipping name Appellation réglementaire Class / Classe Sub. class(es) Classe(s) sub. UN No. N° UN Packing / risk gr. Gr. d'emballage / de risque Quantity shipped Quantité expédiée Units Unités Lor / ou kg Unités Packing / risk gr. Gr. d'emballage / de risque Codes Codes Int.-ext. Phys. state État phys. (i) WASTE PAINT 3 UN 1263 (a) 50 L 1 01 L (ii) WASTE PAINT SOLIDIFIED MATERIAL 3 UN 1263 (a) 5 L 1 01 L (iii) WASTE SOLIDS CONTAINING FLAMMABLE LIQUID, M.O.S. 4.1 UN 3375 II 1798 KG 14 01 S (iv) (Excl. aviation, turbine engine)		Notice No. N° de notification Notice No. N° de ligne de la notification Shipment Envoi OT / De D or R code Code E ou R C code Code C Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE H code Code H Y code Code Y Export Exportation Import Importation Customs code(s) Code(s) de douanes (i) (ii) (iii) (iv) 24-Hour NUMBER: CANUTEC 813-996-6666 Collect only USE IN CASE OF DANGEROUS GOODS EMERGENCY Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature DAVID DAWSON Date 13 09 23			

MOE 04-1917 (07/07)

Retained by Consignor (Generator) - Gardée par l'expéditeur

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<b>A Generator / consigneur</b> <b>Producteur / expéditeur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél. Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal Intended Receiver / consignee Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél. Receiving site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal		<b>B Carrier</b> <b>Transporteur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél. Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>er</sup> remorque - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon Port of entry / Point d'entrée International use only Port of exit / Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au récepteur / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Year / Année Month / Mois Day / Jour Signature		<b>C Receiver / consignee</b> <b>Réceptionnaire / destinataire</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél. Receiving site address / Adresse du lieu de destination Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> AM <input type="checkbox"/> PM If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial																																																																																
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Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél.		Special handling / Manipulation spéciale <input type="checkbox"/> Attached / Joint: <input type="checkbox"/> As follows / Ci-joint: Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> AM <input type="checkbox"/> PM Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour																																																																																		

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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/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2464779-4

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

[illegible]

MOE 04-1917 (07/07)

Retained by Consignor (Generator) - Gardée par l'expéditeur

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NASITTUQ MANIFEST							
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7							
NON NEGOTIABLE							
Filled By: <b>DDAVISON</b>		Date: <b>2013-07-21 3:47 PM</b>		TCN-31397			
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA				From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818		Priority <b>1</b>	
Attention:				Attention:			
Carrier: NEAS		Routing:		Waybill #:		Total Pcs. 2	
						Total Weight: 238 KG	
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1.0	STEEL DRUM	87 KG	2003635	WASTE - FUEL FILTERS (DRUM)	EIN 323064		57"x27"x46"
1.0	STEEL DRUM	114 KG	2002356	WASTE - OIL FILTERS (DRUM)	EIN 322433		
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>DDAVISON</b>		Date: <b>2013-07-21 4:13 PM</b>		TCN-31398			
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA				From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818		Priority <b>1</b>	
Attention:				Attention:			
Carrier: NEAS		Routing:		Waybill #:		Total Pcs. 2	
						Total Weight: 288 KG	
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1.0	DRUM	112 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 323191		57"x27"x46"
1.0	DRUM	139 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 325164		
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>DDAVISON</b>		Date: <b>2013-07-21 4:21 PM</b>		TCN-31399			
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA				From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818		Priority <b>1</b>	
Attention:				Attention:			
Carrier: NEAS		Routing:		Waybill #:		Total Pcs. 3	
						Total Weight: 637 KG	
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2.0	DRUM	381 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 325165,325606		48"x48"x43"
1.0	DRUM	196 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 309224		
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>DDAVISON</b>		Date: <b>2013-07-21 4:24 PM</b>		TCN-31400			
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA				From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818		Priority <b>1</b>	
Attention:				Attention:			
Carrier: NEAS		Routing:		Waybill #:		Total Pcs. 3	
						Total Weight: 645 KG	
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1.0	DRUM	166 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 325163		48"x48"x44"
2.0	DRUM	419 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 326036,326035		
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>DDAVISON</b>	Date: <b>2013-07-21 4:27 PM</b>						
TCN-31401							
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA	From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818						
Priority <b>1</b>							
Attention:	Attention:						
Carrier: NEAS	Routing:						
Waybill #:	Total Pcs. 4						
Total Weight: 892 KG							
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4.0	DRUM	892 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 325189,325604		48"x48"x44"
0.0					EIN 325605,325190		
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>DDAVISON</b>	Date: <b>2013-07-22 8:40 AM</b>						
TCN-31402							
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA	From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818						
Priority <b>1</b>							
Attention:	Attention:						
Carrier: NEAS	Routing:						
Waybill #:	Total Pcs. 1						
Total Weight: 185 KG							
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1.0	DRUM	185 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 326037		48"x48"x44"
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

### Location of Landfill with GPS Co-ordinates





## Annex C

### Sewage Outfall Location (Monitoring Station # BAF-2) with GPS Co-ordinates



## **Annex D**

**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 E

### 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-BAF0919 Type "B"	BAF-3 North Warning System Site, Brevoort Island, Qikiqtani Region, Nunavut	BAF-4	- Summit - Berm of tanks W22A and W22B	63° 20' 23" N 64° 09' 18" W
			- Beach - Berm that used to contain tanks W22C and W22D - Note: Tanks W22C and W22D were demolished in 2012. The berm was left intact.	63° 19' 52" N 64° 10' 40" W

## **Annex F**

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



02 July 2013  
Summit, Berm of tanks W22A and W22B  
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: 1314127  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF-3  
COC #: 127355

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1040425 Water 2013-07-02 B3-W22AB Dissolved
Group	Analyte	MRL	Units	Guideline	
Metals	Cd	0.0001	mg/L		0.0002
	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 Exceedance  
\*\* = 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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Page 2 of 3





02 July 2013  
Summit, Berm of tanks W22A and W22B  
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160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:   
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1314125  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF-3  
COC #: 127355

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1040422 Water  2013-07-02 B3-W22AB
Group	Analyte	MRL	Units	Guideline	
General Chemistry	pH	1.00			6.52
Mercury	Hg	0.0001	mg/L		<0.0001
Metals	Aqua-Regia Digest		mg/L		y
	As	0.02	mg/L		<0.02
	Zn	0.04	mg/L		0.20
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
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	%		92

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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Page 2 of 5



02 July 2013

Beach, Berm that used to contain tanks W22C and W22D  
(tanks demolished in 2012)

Page 1 of 2

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

Report Number: 1314123  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF3  
COC #: 127356

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1040418 Water 2013-07-02 B3-W22CD Dissolved
Group	Analyte	MRL	Units	Guideline	
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		<0.001
	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.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,  
IMAC = 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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Page 2 of 3



## **Annex G**

### **2013 (Year 7) Remediation and Monitoring Activities of 2007 Jet A1 Fuel Spill**

#### Analytical Results

- Results for untreated effluent from mid-site biopiles, for the final discharge point from the landfarm (Monitoring Station # BAF-3)
- Results for mid-site biopile monitoring wells (Monitoring Station # BAF-5)

#### Other Information

- Excerpts from “BAF-3 2013 Field Season – Monitoring Report # 2” (draft) dated 31 October 2013 by Stantec Consulting Limited:
  - Upper Site: Monitoring Well Location Plan
  - Excerpt from 4.0 Results
  - Excerpt from 5.0 Recommendations



**14 July 2013**  
**Mid-site, Effluent from Biopiles**  
**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: 1315076  
Date Submitted: 2013-07-17  
Date Reported: 2013-07-22  
Project: BAF-3  
COC #: 171565

Group		Analyte	MRL	Units	Guideline
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	0.002
		Ni	0.005	mg/L	<0.005
		Pb	0.001	mg/L	<0.001

Lab I.D.  
Sample Matrix  
Sample Type  
Sampling Date  
Sample I.D.

1043026  
Surfacewater  
  
2013-07-14  
Mid Site Berm Water

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

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

Page 2 of 3



14 July 2013  
Mid-site, Effluent from Biopiles  
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: 1315075  
Date Submitted: 2013-07-17  
Date Reported: 2013-07-24  
Project: BAF-3  
COC #: 171565

				Lab I.D.	1043025
				Sample Matrix	Surfacewater
				Sample Type	
				Sampling Date	2013-07-14
				Sample I.D.	Mid Site Berm Water
Group	Analyte	MRL	Units	Guideline	
General Chemistry	pH	1.00			7.04
Mercury	Hg	0.0001	mg/L		<0.0001
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		0.002
Oil & Grease	Oil & Grease - Total	1	mg/L		<1
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1
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	%		93

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

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



18 September 2013  
Mid-site, Effluent from Biopiles (Sample ID “Berm”)  
Page 1 of 3

EXOVA OTTAWA

Certificate of Analysis



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

Report Number: 1320798  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-28  
Project: BAF3-Midesite  
COC #: 171597

					1059471 Water 2013-09-19 B3-MW6	1059472 Water 2013-09-19 B3-MW4	1059473 Water 2013-09-19 B3-MW7	1059474 Water 2013-09-19 Berm
Group	Analyte	MRL	Units	Guideline				
Metals	Cd	0.0001	mg/L		0.0018	0.0003	0.0008	<0.0001
	Co	0.0002	mg/L		0.0002	0.0034	0.0043	0.0045
	Cr	0.001	mg/L		0.002	<0.001	0.001	<0.001
	Cu	0.001	mg/L		<0.001	<0.001	<0.001	0.004
	Ni	0.005	mg/L		<0.005	<0.005	<0.005	<0.005
	Pb	0.001	mg/L		0.001	<0.001	<0.001	<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.

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Page 2 of 5

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

**18 September 2013**  
**Mid-site, Effluent from Biopiles (Sample ID "Berm")**  
**Page 2 of 3**

**EXOVA** OTTAWA

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

Report Number: 1320795  
 Date Submitted: 2013-09-21  
 Date Reported: 2013-09-26  
 Project: BAF3-Midesite  
 COC #: 171597

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1059466 water 2013-09-18 B3-MW6	1059467 water 2013-09-18 B3-MW4	1059468 Water 2013-09-18 B3-MW7	1059469 Water 2013-09-18 B3-MW5
Group	Analyte	MRL	Units	Guideline					
General Chemistry	pH	1.00				6.33	6.34	6.45	
Mercury	Hg	0.0001	mg/L			<0.0001	<0.0001	<0.0001	
Metals	Aqua-Regia Digest		mg/L			y	y	y	y
	As	0.02	mg/L			<0.02	<0.02	<0.02	<0.02
	Zn	0.04	mg/L			71.3	61.1	64.6	140
Nutrients	Phenols	0.001	mg/L			<0.001	<0.001	<0.001	<0.001
Oil & Grease	Oil & Grease - Total	1	mg/L			<1	<1		
		4	mg/L					<4	16
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L			<0.1	<0.1		
VOCs	Benzene	0.5	ug/L			<0.5	<0.5	<0.5	
	Ethylbenzene	0.5	ug/L			<0.5	<0.5	<0.5	
	Toluene	0.5	ug/L			<0.5	<0.5	<0.5	
	Toluene-d8	0	%			104	104	105	

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1059470 Water 2013-09-18 Berm
General Chemistry	pH	1.00			6.88
Mercury	Hg	0.0001	mg/L		<0.0001
Metals	Aqua-Regia Digest		mg/L		y
	As	0.02	mg/L		<0.02
	Zn	0.04	mg/L		0.06
Nutrients	Phenols	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.

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





**18 September 2013**  
**Mid-site, Effluent from Biopiles (Sample ID “Berm”)**  
**Page 3 of 3**

**EXOVA OTTAWA**

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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: 1320795  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

				Lab I.D.	1059470
				Sample Matrix	Water
				Sample Type	2013-09-18
				Sampling Date	Berm
				Sample I.D.	
Group	Analyte	MRL	Units	Guideline	
Oil & Grease	Oil & Grease - Total	1	mg/L		<1
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1
VOCs	Benzene	0.5	ug/L		<0.5
	Ethylbenzene	0.5	ug/L		<0.5
	Toluene	0.5	ug/L		<0.5
	Toluene-d8	0	%		105

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.

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Page 3 of 6

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



**14 July 2013**  
**Mid-site, Monitoring Wells**  
**Page 1 of 2**

**EXOVA OTTAWA**

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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: 1315074  
 Date Submitted: 2013-07-17  
 Date Reported: 2013-07-22  
 Project: BAF-3  
 COC #: 171565

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1043021	1043022	1043023	1043024
					Groundwater 2013-07-15 MW-4	Groundwater 2013-07-15 MW-5	Groundwater 2013-07-15 MW-6	Groundwater 2013-07-15 MW-7
Metals	Cd	0.0001	mg/L		0.0003	0.0007	0.0009	0.0011
	Co	0.0002	mg/L		0.0003	0.0002	0.0002	0.0002
	Cr	0.001	mg/L		<0.001	<0.001	<0.001	<0.001
	Cu	0.001	mg/L		<0.001	0.002	<0.001	<0.001
	Ni	0.005	mg/L		<0.005	<0.005	<0.005	<0.005
	Pb	0.001	mg/L		<0.001	<0.001	<0.001	<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

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

**14 July 2013**  
**Mid-site, Monitoring Wells**  
**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: 1315073  
 Date Submitted: 2013-07-17  
 Date Reported: 2013-07-24  
 Project: BAF-3  
 COC #: 171565

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1043016 Water 2013-07-14 MW-4	1043017 Water 2013-07-14 MW-5	1043018 Water 2013-07-14 MW-6	1043019 Water 2013-07-14 MW-7
General Chemistry	pH	1.00			7.17	6.82	6.83	6.81
Mercury	Hg	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001
Metals	Aqua-Regia Digest		mg/L		y	y	y	y
	As	0.02	mg/L		<0.02	<0.02	<0.02	<0.02
	Zn	0.04	mg/L		9.46	25.9	14.9	39.4
Nutrients	Phenols	0.001	mg/L		<0.001	<0.001	<0.001	<0.001
Oil & Grease	Oil & Grease - Total	1	mg/L		<1	7	<1	4
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1	<0.1	<0.1	<0.1
VOCs	Benzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Toluene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Toluene-d8	1	%		95	99	102	102

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 Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO =  
 Interim Provincial Water Quality Objective, TDR = Typical Desired Range



**18 September 2013**  
**Mid-site, Monitoring Wells (Sample IDs B3-MW6, B3-MW4, and B3-MW7)**  
**Page 1 of 2**

**EXOVA OTTAWA**

**Certificate of Analysis**



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

Report Number: 1320796  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

					1059471 Water 2013-09-19 B3-MW6	1059472 Water 2013-09-19 B3-MW4	1059473 Water 2013-09-19 B3-MW7	1059474 Water 2013-09-19 Berm
Group	Analyte	MRL	Units	Guideline				
Metals	Cd	0.0001	mg/L		0.0018	0.0003	0.0008	<0.0001
	Co	0.0002	mg/L		0.0002	0.0034	0.0043	0.0045
	Cr	0.001	mg/L		0.002	<0.001	0.001	<0.001
	Cu	0.001	mg/L		<0.001	<0.001	<0.001	0.004
	Ni	0.005	mg/L		<0.005	<0.005	<0.005	<0.005
	Pb	0.001	mg/L		0.001	<0.001	<0.001	<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

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,  
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= Interim Provincial Water Quality Objective, TDR = Typical Desired Range

**18 September 2013**  
**Mid-site, Monitoring Wells (Sample IDs B3-MW6, B3-MW4, B3-MW7,**  
**and B3-MW5)**

**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: 1320795  
 Date Submitted: 2013-09-21  
 Date Reported: 2013-09-20  
 Project: BAF3-Midesite  
 COC #: 171597

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1059466 water 2013-09-18 B3-MW6	1059467 water 2013-09-18 B3-MW4	1059468 Water 2013-09-18 B3-MW7	1059469 Water 2013-09-18 B3-MW5
General Chemistry	pH	1.00				6.33	6.34	6.45	
Mercury	Hg	0.0001	mg/L			<0.0001	<0.0001	<0.0001	
Metals	Aqua-Regia Digest		mg/L			y	y	y	y
	As	0.02	mg/L			<0.02	<0.02	<0.02	<0.02
	Zn	0.04	mg/L			71.3	61.1	94.8	140
Nutrients	Phenols	0.001	mg/L			<0.001	<0.001	<0.001	<0.001
Oil & Grease	Oil & Grease - Total	1	mg/L			<1	<1		
		4	mg/L					<4	10
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L			<0.1	<0.1		
VOCs	Benzene	0.5	ug/L			<0.5	<0.5	<0.5	
	Ethylbenzene	0.5	ug/L			<0.5	<0.5	<0.5	
	Toluene	0.5	ug/L			<0.5	<0.5	<0.5	
	Toluene-d8	0	%			104	104	105	

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	pH	1.00			1059470 Water 2013-09-18 Berm
Mercury	Hg	0.0001	mg/L		
Metals	Aqua-Regia Digest		mg/L		y
	As	0.02	mg/L		<0.02
	Zn	0.04	mg/L		0.06
Nutrients	Phenols	0.001	mg/L		<0.001

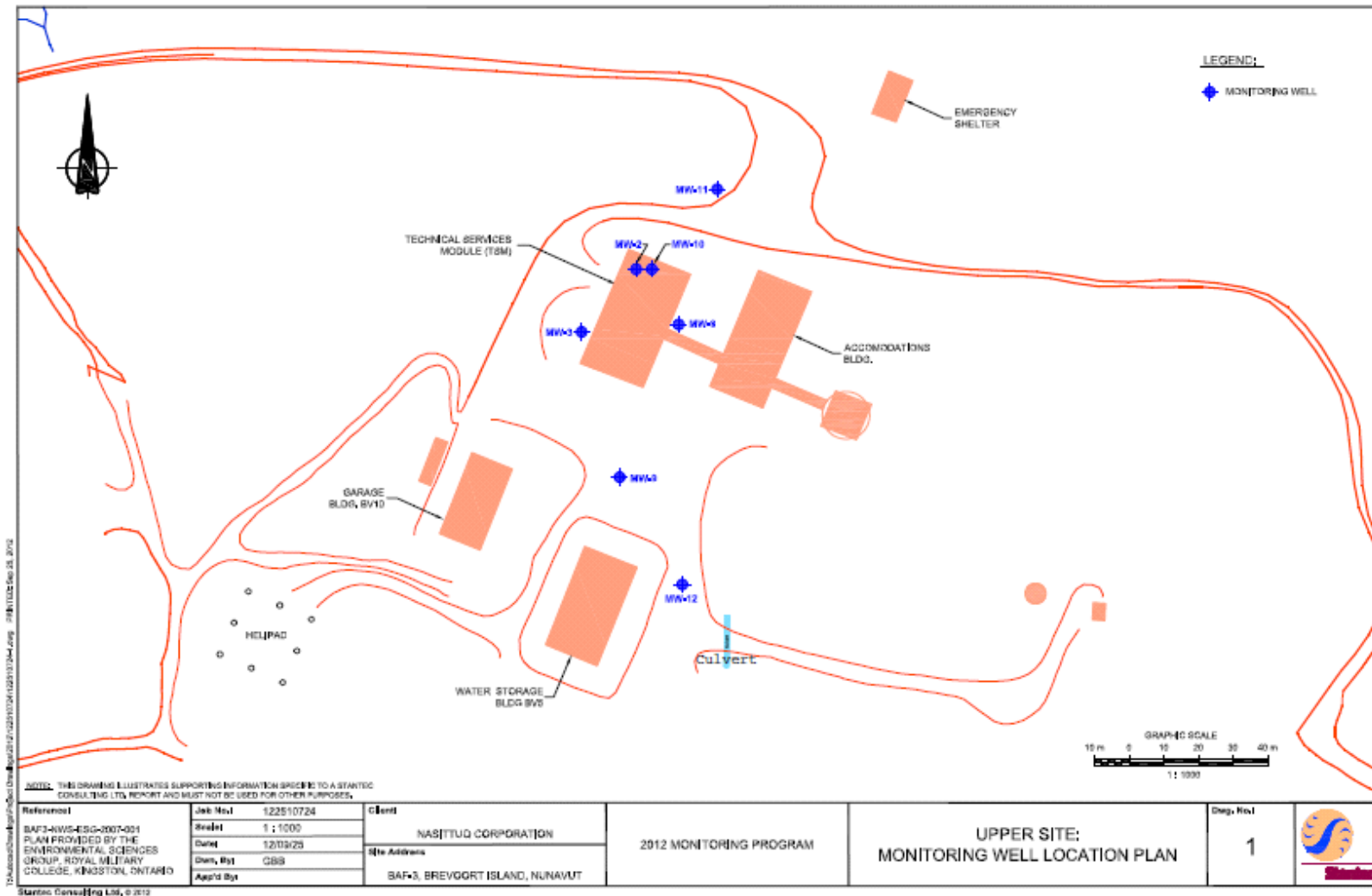
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146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Excerpts from “BAF-3 2013 Field Season – Monitoring Report # 2” (draft) by Stantec Consulting Limited  
 - Upper Site: Monitoring Well Location Plan



Excerpts from “BAF-3 2013 Field Season – Monitoring Report # 2” (draft) by Stantec Consulting Limited

- 4.0 Results

Stantec’s report, 4.0 Results, 4.1 Upper Site Groundwater Monitoring states “In comparing the results from this sampling event to historical results, it can be seen that, for the original set of wells (MWs 2, 3, 8, 9, and 10), BTEX parameters were generally lower with the exception of results for MW 8, where an increasing trend is shown. Newer wells MW 11 (north of the roadway alongside the TSM) and MW 12 (south of the TSM, just east of the Water Building) show an increasing trend in MW 11 and a flat trend in MW 12 - relative concentrations in MW 11 are still well below those across most of the original wells.”

- 5.0 Recommendations

Stantec’s report lists the following recommendations:

- continue to monitor “the apparent migrations of the dissolved PHC plume at the upper site, both northerly and southerly”;
- undertake 2 monitoring visits in 2014; and
- determine the source of the high zinc (total) concentrations in the mid-site monitoring wells and the source of the oil and grease in MW 5.

PHC means petroleum hydrocarbon.