

NWB Annual Report

Year being reported: 2007



License No: 1BR-EKA0607

Issued Date: June 19, 2006

Expiry Date: December 31, 2007*

* Renewal application submitted

Project Name: FOX-C Ekalugad Fjord Remediation Project

Licensee: Indian and Northern Affairs Canada

Mailing Address: PO Box 2200
Iqaluit NU
X0A 0H0

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

General Background Information on the Project (*optional):

The FOX-C Intermediate Distant Early Warning (DEW) Line Site was constructed in 1957 and subsequently abandoned in 1963. It is located on the Northeast coast of Baffin Island, Nunavut on the south shore of Ekalugad Fjord. It is approximately 240 kilometres northwest of Qikiqtarjuaq and 260 kilometres south of Clyde River.

Two years of the planned two year remediation phase of the FOX-C Ekalugad Fjord Remediation Project have been completed but there is still a significant amount of work remaining. The work plan has been adjusted and now calls for the remediation phase to be completed in 2008 followed by the shipping of hazardous wastes and demobilization.

Licence Requirements: the licensee must provide the following information in accordance with

Part B



Item 1



A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):

Water Quantity:

River at River Crossing #4 (See Appendix 1: Daily Water Log)

30/day Quantity Allowable Domestic (cu.m)

12.737/day max Actual Quantity Used Domestic (cu.m)

Quantity Allowable Drilling (cu.m)

Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

☒ Solid Waste Disposal

☒ Sewage

☐ Drill Waste

☒ Greywater

☒ Hazardous

☐ Other:

Additional Details:

Soild waste from the Camp was landfilled in the Non-Hazardous Waste Landfill. Sewage and Greywater was stored in the sewage lagoon. All Hazardous Wastes were properly packaged and stored; these will be shipped to a southern disposal facility at the end of the project (See Appendix 3 for Analytical Results).

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

See the "NT-NU Spill Report Form" and "Spill Clean Up Report" contained in Appendix 2

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed ▼

Additional Details:

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed ▼

Additional Details:

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

WORK COMPLETED

- Landfarm construction & operation
 - Completed and ongoing
- Installation of monitoring wells at lower site
 - Completed
- Non hazardous waste landfill
 - Berm construction 3 of 4 completed
- Sewage lagoon construction & operation
 - complete
- Lower site hazardous waste processing area
 - Completed
- Beach tank demolition and land filling
 - Completed
- Beach debris removal
 - 99% completed
- Lake area debris removal
 - Completed (except under Blasting Caps)
- Excavate the beach POL contaminated soil area
 - Soil excavated, more to be excavated 2008
- Water Lake contaminated soil excavation
 - Soil excavated, more to be excavated 2008
- Asbestos abatement
 - Completed
- Construction of temporary PCB & hazardous waste storage areas
 - Complete
- Removal, packaging and storage of PCB amended painted materials
 - Complete
- Building demolition (Module Train, POL Tanks, Garage, Warehouse)
 - Complete
- Excavation of mid station pad contaminated soil to permafrost
 - excavated, more to be excavated 2008
- Mid Station regrading
 - Initiated, work remaining for 2008
- Mid Station debris removal and drum processing
 - Initiated, work remaining for 2008

FUTURE WORK PROPOSED

- Community meetings
- Mobilization
 - Reopening of camp
 - Worker orientation
- Field activities
 - Road repair
 - Survey
 - Drum processing & incineration
 - Contaminated soil excavation
 - Operation of sewage lagoon
 - Debris removal
 - Regrading
 - Landfarm, Landfill & sewage lagoon closure

Demobilization, Camp closure, Worker demobilization, Equipment demobilization, Hazardous materials shipment and disposal

- Demobilization
 - Camp closure
 - Worker demobilization
 - Equipment demobilization
 - Hazardous materials shipment and disposal

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Details attached



Additional Details:

See GPS Co-ordinates on Page 6.

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Details attached



Additional Details:

See GPS Co-ordinates on Page 6.

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (date of request, analysis of results, data attached, etc)

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (Attached or provided below)

Any responses or follow-up actions on inspection/compliance reports

No inspection and/or compliance report issued by INAC ▼

Additional Details: (Dates of Report, Follow-up by the Licensee)

Any additional comments or information for the Board to consider

Photographs of the Non-Hazardous Waste Landfill and the Camp & Sewage Lagoon are provided on Page 7.

The project has been extended an extra year due to a number of factors. A Nunavut Water Board Licence Renewal Application has been submitted.

Date Submitted:
Submitted/Prepared by:
Contact Information:

March 28, 2008

Natalie Plato

Tel: (867) 975-4730

Fax: (867) 975-4736

email: platon@inac-ainc.gc.ca

GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg °	Min ?	Sec ?	Deg °	Min ?	Sec ?
River at River Crossing #4	68	43	38	68	39	10

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	Deg °	Min ?	Sec ?	Deg °	Min ?	Sec ?
Non-Hazardous Waste Landfill	68	43	21	68	38	56
Camp Wastewater - Temporary Sewage Lagoon	68	44	31	68	37	7
Camp Wastewater - Permanent Sewage Lagoon	68	44	34	68	39	11
Waste water discharge point	68	44	35	68	38	58

APPENDIX 2: PHOTOGRAPHS

As built drawings are not being submitted because the Non-Hazardous Waste Landfill is not complete. Please see the pictures below:



Lower Site Non-Hazardous Waste Landfill



Camp and Sewage Lagoon

APPENDIX 1: DAILY WATER LOG

Daily Log - Camp Water Supply - 2007

Name - Operator	Date	Sterling or Steamer	Filled from	Destination	Load	Volume	Daily Volume
Chris Giroux	10-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	11-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	12-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	13-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	14-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	15-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	16-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	17-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	18-Jul-07	Sterling	River Crossing 4	Camp Reservoir	0	-	-
Chris Giroux	19-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	20-Jul-07	Sterling	River Crossing 4	Camp Reservoir	0	-	-
Chris Giroux	21-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	22-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	23-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	24-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	25-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	26-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	27-Jul-07	Steamer	River Crossing 4	Camp Reservoir	1	1,300.00	1,300.00
Chris Giroux	28-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	29-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	30-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	31-Jul-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Jean-Louis	01-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Jean-Louis	02-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Jean-Louis	03-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Jean-Louis	04-Aug-07	Steamer	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Jean-Louis	05-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Jean-Louis	06-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	07-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	08-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	09-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	10-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	11-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	12-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
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Chris Giroux	16-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	17-Aug-07	Sterling	River Crossing 4	Steamer/Camp	1	12,737.00	11,357.00
Chris Giroux	18-Aug-07	Sterling	River Crossing 4	Steamer/Camp	1	12,737.00	11,357.00
Chris Giroux	19-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00

Legend	
Destination	Volume (L)
Camp Reservoir	11,357.00
Road	1,993.00
Landfarm	1.00
Steamer	1.00
Pressure Washer	1,300.00
Flower Pot	1,300.00
UMA Lab	

Daily Log - Camp Water Supply - 2007

Jean-Louis	20-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	21-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	22-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	23-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
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Chris Giroux	30-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	31-Aug-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	01-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	02-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	03-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	04-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
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Chris Giroux	06-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
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Chris Giroux	09-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	10-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	11-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
Chris Giroux	12-Sep-07	Sterling	River Crossing 4	Camp Reservoir	1	11,357.00	11,357.00
				Total	62		705,434.00

APPENDIX 2: NT-NU SPILL REPORT FORM & SPILL CLEAN-UP REPORT



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 05-07-2007		REPORT TIME		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH - DAY - YEAR UNKNOWN - DISCOVERED MAY 3RD 07		OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) N2005X0009		WATER LICENCE NUMBER (IF APPLICABLE) 1BR-EKA 0607			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION EKALUGAD FIORD / FOX-C DEW LINE			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 68 MINUTES 42 SECONDS N		LONGITUDE DEGREES 68 MINUTES 33 SECONDS W			
F	RESPONSIBLE PARTY OR VESSEL NAME PIKIPTAALUK CORPORATION		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION PO BOX 1228, IQALUIT, NU X0A 0H0			
G	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED DIESEL		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 250 US GAL (0.95 m ³) APPROX.		U.N. NUMBER UN1202	
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
I	SPILL SOURCE FURNACE TANK		SPILL CAUSE PIPE RUPTURE		AREA OF CONTAMINATION IN SQUARE METRES 9.3 m ²	
J	FACTORS AFFECTING SPILL OR RECOVERY SPILL ON SNOW		DESCRIBE ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS CLEAN-UP METHODOLOGY PROPOSED: THE DIESEL CONTAMINATED SNOW WILL BE CONTAINED IN A ROLL-OFF CONTAINER LINED W/ 6-8 MIL POLYETHYLENE. (THE ROLL-OFF CONTAINER IS IN ITSELF CONSIDERED WATER-PROOF WHEN THE TAIL-GATE IS PROPERLY SECURED. HOWEVER THE 6-8 MIL PE LINER WILL ACT AS AN ADDITIONAL CONTAINMENT BARRIER). IF ACCESSIBLE, A BACKHOE OR EXCAVATOR WILL BE USED TO DIG-UP THE SNOW, IF NOT IT WILL HAVE TO BE SHOVELED BY HAND AT THE END OF THE CLEAN-UP OPERATION THE ROLL-OFF CONTAINER WILL BE COVERED WITH A LAYER OF 6-8 MIL PE LINER TO AVOID DILUTION FROM FUTURE PRECIPITATION. ALL FREE PRODUCT WILL BE RECOVERED USING APPROPRIATE SORBENT MATERIALS (ALREADY STORED ON-SITE). THE USED SORBENT MATERIALS WILL BE STORED IN THE GARAGE IN SEALED DOUBLED-UP GARBAGE BAGS.					
L	REPORTED TO SPILL LINE BY CATHY BAPTISTA	POSITION ENVIRO. ENGINEER	EMPLOYER PIKIPTAALUK ENV.	LOCATION CALLING FROM MONTREAL	TELEPHONE 514 940-3332	
M	ANY ALTERNATE CONTACT JEREMIAH GROVES	POSITION CAMP SUPERINTENDENT	EMPLOYER PIKIPTAALUK CORP.	ALTERNATE CONTACT LOCATION IQALUIT	ALTERNATE TELEPHONE 867 979-8400	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME		CONTACT TIME		REMARKS
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						



DIESEL FUEL SPILL AT EKALUGAD FIORD / FOX-C SPILL CLEAN-UP REPORT WITH CONFIRMATORY SAMPLING RESULTS

BACKGROUND

A diesel spill at the Ekalugad Fiord / FOX-C site (68° 42' N, 68° 33' W) was reported to Qikiqtaaluk Corporation on Friday May 4th 2007. Qikiqtaaluk Corporation is the Contractor responsible for the Camp Services and the Restoration Contracts for Ekalugad Fiord /FOX-C.

A Spill Contingency Report was faxed to 24 Hour Spill Report Line on Monday May 7th 2007.

A Spill Response Plan prepared by Qikiqtaaluk Corporation/Qikiqtaaluk Environmental was approved by PWGSC on May 22nd 2007.

The next available Twin Otter (Ken Borek) was chartered for May 24th 2007. However due to weather conditions (high winds) the flight was postponed several days.

SPILL CLEAN-UP

CLEAN-UP DATE: June 5th 2007 from 12:00 PM to 4:00 PM

SPILL SOURCE & LOCATION: The fuel tank (200 gallons) located in front of the FOX-C garage

CLEAN-UP CREW:

The work crew consisted of 4 labourers (Jay Peter, Mathewsie Onalik, Mark Etuk and Pauloosie Audlakiak) and of Alex Flaherty, which supervised the clean up operation. Mr. Flaherty recently obtained an Environmental Technology Diploma from Arctic College.

CLEAN-UP OBJECTIVE:

Recover and contain all the diesel contaminated media (snow/soil) in appropriate impermeable containers until the beginning of the work season scheduled for July 2007, thereby minimizing exposure to local hunters and wildlife.

INITIAL ASSESSMENT:

The fuel tank had detached from the garage building and was lying on its side. Approximately 5 gallons of diesel remained in the tank.

CLEAN-UP METHODOLOGY:

Upon arrival, the spill source was stopped by securing the tank in upright position. The work crew then shovelled the diesel contaminated soil by hand into 45 gallon overpack drums. Three (3) overpack drums were filled with soil. The depth of the excavation was limited to 6 – 10 inches deep due to encounter of large boulders (used for the foundation of the garage building). Sorbent pads were place at the bottom of the excavation and sorbent booms around its perimeter to absorb any remaining diesel fuel.

Figures 1 to 5 on the following pages clearly illustrate the main steps of the clean-up process.



Figure 1 : Fuel tank on its side and visible diesel fuel contaminated soil



Figure 2 : Fuel tank on its side (view of the top of the tank)



Figure 3 : Shovelling of contaminated soil into yellow Overpack Drums



Figure 4 : Sorbent pads and booms around decontaminated area

CONFIRMATORY SAMPLING

Confirmatory testing was conducted in July 2007 by Cathy Baptista, P. Eng. Composite samples were taken on the perimeter (samples *GARAGE 1* to *GARAGE 4*) and the bottom (sample *GARAGE 5*) of the excavation. The samples were sent to CAEAL accredited Bodycote Laboratory for analysis. A sketch of the soil samples locations is provided below.



Figure 5: Layout of confirmatory sampling locations

The soil samples were analysed according to the CCME Canada Wide Standard for Petroleum Hydrocarbons. The analytical results are provided in the Table 1 as well as the criteria applicable at FOX-C. A copy of the laboratory certificates is enclosed.

Table 1 : Confirmatory Soil Results and Applicable CCME Criteria (mg/kg)

ANALYSIS	CRITERIA	GARAGE 1	GARAGE 2	GARAGE 3	GARAGE 4	GARAGE 5
F1	260	<10	<10	<10	<10	<10
F2	900	101	<20	<20	242	<20
F3	800	191	978	<20	95	55
F4	5600	<20	445	<20	<20	<20

As seen in Table 1, all confirmatory test results are well below the applicable hydrocarbon criteria except for the F3 fraction of the *GARAGE 2* composite sample. The side of the excavation corresponding to the *GARAGE 2* composite sample is on the limit of the main road, as such, the excavation could not be extended during the current working season without affecting the road.

FOLLOW-UP AND DISPOSAL

In July 2007, the fuel tank was braced directly to the garage building, in order to further minimise the risk of tipping during high winds in the off-season months.

Prior to the end of the FOX-C Remediation Project, the side of the excavation along the main road, corresponding to sample GARAGE 2, will be retested. If it remains above criteria, the excavation will be extended into the main road until confirmatory testing demonstrates that all the diesel contaminated soil has been adequately removed.

The excavated contaminated soil will be shipped south for disposal at the end of the FOX-C Remediation Project. The used sorbent pads and booms will also be disposed of accordingly off-site.

FORMAL CORRESPONDENCE

SPILL CONTINGENCY REPORT: faxed to the NT-NU 24 Hour Spill Report Line on Monday May 7th 2007. Copy sent to Brad Thompson (PWGSC) and Marc Yetman (INAC).

SPILL RESPONSE PLAN: sent to Brad Thompson, Jared Buchko (PWGSC) and Marc Yetman on May 22nd 2007.

SPILL CLEAN-UP REPORT: sent to the NT-NU 24 Hour Spill Report Line and Marc Yetman on June 15th 2007.

SPILL CLEAN-UP REPORT WITH CONFIRMATORY SAMPLING RESULTS: will be sent Marc Yetman on September 11th 2007.

For more information, contact:

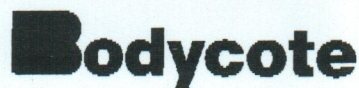
QIKIQTAAALUK ENVIRONMENTAL
Cathy Baptista, P. Eng.

T: 514.940.3332

F: 514.940.3435



Last update 2007-09-11, 16:14:16



GROUPE D'ESSAIS
www.bodycote.com
www.bodycotetesting.com

Certificat d'analyse

Numéro de demande d'analyse: **07-283238**

Demande d'analyse reçue le: 2007-09-06

Date d'émission du certificat: 2007-09-10

Numéro de version du certificat: 1

- ☒ Certificat d'analyse officiel
☐ Certificat d'analyse préliminaire

Requérant

SINANNI-STABILIS

3333 Queen Mary, suite 580
Montréal, Québec, Canada
H3V 1A2

Bon de commande	Votre Projet	Chargé de Projet
NA	Ekalugad	Cathy Baptista

Commentaires

Les critères de la "Politique de protection des sols et de réhabilitation des terrains contaminés" inclus dans ce certificat sont à titre indicatif seulement.
Les critères A pour les métaux correspondent à ceux de la région des Basses-Terres du St-Laurent.
Les critères D correspondant au "Règlement sur l'enfouissement des sols contaminés" sont inclus dans ce certificat à titre indicatif seulement.

Cette version remplace et annule toute version antérieure, le cas échéant.

ND : Non-détecté

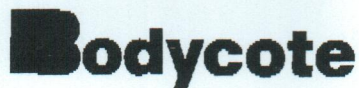
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Certificat d'analyse no. 212904 - Version 1 - Page 1 de 5

Bodycote Groupe d'Essais

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GROUPE D'ESSAIS
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 www.bodycotetesting.com

Numéro de demande: 07-283238

Client: SINANNI-STABILIS

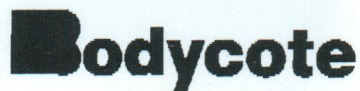
Bon de commande		Votre Projet		Chargé de Projet	
NA		Ekalugad		Cathy Baptista	
		Échantillon(s)			
No Labo.		1351895	1351896	1351897	1351898
Votre Référence		Garage 1	Garage 2	Garage 3	Garage 4
Matrice		Sol	Sol	Sol	Sol
Prélevé par		CD	CD	CD	CD
Lieu de prélèvement		NA	NA	NA	NA
Prélevé le		2007-08-29	2007-08-29	2007-08-29	2007-08-29
Reçu Labo		2007-09-06	2007-09-06	2007-09-06	2007-09-06
Paramètre(s)					
Méthode					
Référence					
Humidité (pour calcul)		Préparation	2007-09-10	2007-09-10	2007-09-10
Humidité (gravimétrie)		Analyse	2007-09-10	2007-09-10	2007-09-10
PON-98-01-05, section 5		No. séquence	134844	134844	134842
Humidité		%	8.4	6.8	7.9

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www.bodycotetesting.com**Numéro de demande: 07-283238**Client: **SINANNI-STABILIS**

Bon de commande	Votre Projet	Chargé de Projet
NA	Ekalugad	Cathy Baptista

Échantillon(s)**No Labo.** 1351899Votre
Référence Garage 5Matrice Sol
Prélevé par CDLieu de
prélèvement NA

Prélevé le 2007-08-29

Reçu Labo 2007-09-06

Paramètre(s)

Méthode

Référence

Humidité (pour calcul)

Humidité (gravimétrie)

PON-89-01-05, section 5

Humidité

Préparation 2007-09-10

Analyse 2007-09-10

No. séquence 134844

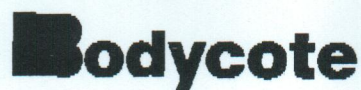
% 8.2

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Numéro de demande: 07-283238Client: **SINANNI-STABILIS**

Bon de commande	Votre Projet	Chargé de Projet
NA	Ekalugad	Cathy Baptista

Échantillon(s)

No Labo.	1351895	1351896	1351897	1351898
Votre Référence	Garage 1	Garage 2	Garage 3	Garage 4
Matrice	Sol	Sol	Sol	Sol
Prélevé par	CD	CD	CD	CD
Lieu de prélèvement	NA	NA	NA	NA
Prélevé le	2007-08-29	2007-08-29	2007-08-29	2007-08-29
Reçu Labo	2007-09-06	2007-09-06	2007-09-06	2007-09-06

Paramètre(s)

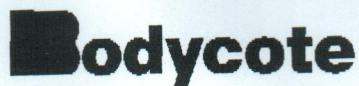
Méthode					
Références					
Hydrocarbures pét. C6@C10 (F1)	Préparation	2007-09-06	2007-09-06	2007-09-06	2007-09-06
COV (GC-FID). Résultats sur base sèche. BTEX non soustraits.	Analyse	2007-09-06	2007-09-06	2007-09-06	2007-09-06
PON-13-12-97 (REF CCME, PHCs CWS)	No. séquence	134429	134429	134429	134429
Hydrocarbures pétroliers C6@C10 (F1)	mg/kg	< 10	< 10	< 10	< 10
Hydrocarbures pétroliers C10@C50 (F2@F4)	Préparation	2007-09-07	2007-09-07	2007-09-07	2007-09-07
Hydrocarbures pétroliers C10@C50 (F2@F4). Résultats sur base sèche	Analyse	2007-09-07	2007-09-07	2007-09-07	2007-09-07
PON-13-18-06 (REF : CCME TPH in Soil)	No. séquence	134630	134630	134630	134630
Hydrocarbures pétroliers C10@C16 (F2)	mg/kg	101	< 20	< 20	242
Hydrocarbures Pétroliers C16@C34 (F3)	mg/kg	191	978	< 20	95
Hydrocarbures Pétroliers C34@C50 (F4)	mg/kg	< 20	445	< 20	< 20
Somme des hydrocarbures pétroliers C10@C50 (F2@F	mg/kg	292	1420	ND	337

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Numéro de demande: 07-283238

Client: SINANNI-STABILIS

Bon de commande	Votre Projet	Chargé de Projet
NA	Ekalugad	Cathy Baptista

Échantillon(s)

No Labo. 1351899

Votre
Référence Garage 5Matrice Sol
Prélevé par CDLieu de
prélèvement NA

Prélevé le 2007-08-29

Reçu Labo 2007-09-06

Paramètre(s)

Méthode

Référence

Hydrocarbures pét. C6@C10 (F1)

Préparation 2007-09-06

COV (GC-FID). Résultats sur base sèche. BTEX non soustraks.

Analyse 2007-09-06

PON-13-12-97 (REF: CCME, PHCs CWS)

No. séquence 134429

Hydrocarbures pétroliers C6@C10 (F1)

mg/kg < 10

Hydrocarbures pétroliers C10@C50 (F2@F4)

Préparation 2007-09-07

Hydrocarbures pétroliers C10@C50 (F2@F4). Résultats sur base sèche

Analyse 2007-09-07

PON-13-19-06 (REF: CCME TPH in Soil)

No. séquence 134630

Hydrocarbures pétroliers C10@C16 (F2)

mg/kg < 20

Hydrocarbures Pétroliers C16@C34 (F3)

mg/kg 55

Hydrocarbures Pétroliers C34@C50 (F4)

mg/kg < 20

Somme des hydrocarbures pétroliers C10@C50 (F2@F)

mg/kg 55

Note: Ces résultats et commentaires, le cas échéant, ne se rapportent qu'aux échantillons soumis pour l'analyse des paramètres ci-dessus mentionnés.

Caroline Schiltz
1995-046

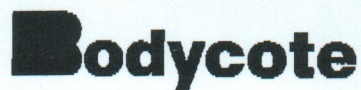
QUÉBEC

Chimiste

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Certificat d'analyse

Numéro de demande: **07-283238**

Client: **SINANNI-STABILIS**

Bon de commande	Votre Projet	Chargé de Projet
NA	Ekalugad	Cathy Baptista

Résultats du Contrôle de Qualité (CQ)

Paramètres (No.Séquence)	Unité	LDR	Blanc	Contrôle certifié	
				Obtenu	Attendu (Intervalle)
Humidité (pour calcul)					
No Séquence: 134842					
Humidité	%	< 0.1	< 0.1	52.7	45 - 55
Humidité (pour calcul)					
No Séquence: 134844					
Humidité	%	< 0.1	< 0.1	52.5	45 - 55
Hydrocarbures pét. C6@C10 (F1)					
No Séquence: 134429					
Hydrocarbures pétroliers C6@C10 (F1)	mg/kg	< 10	< 10	NA	NA
Hydrocarbures pétroliers C10@C50 (F2@F4)					
No Séquence: 134630					
Hydrocarbures pétroliers C10@C16 (F2)	mg/kg	< 20	< 20	NA	NA
Hydrocarbures Pétroliers C16@C34 (F3)	mg/kg	< 20	< 20	2050	1728.3 - 3209.85
Hydrocarbures Pétroliers C34@C50 (F4)	mg/kg	< 20	< 20	NA	NA

Commentaires CQ

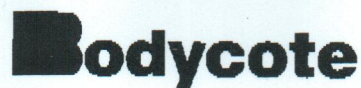
LDR : Limite de détection rapportée

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Certificat d'analyse**Numéro de demande: 07-283238**Client: **SINANNI-STABILIS**

Bon de commande	Votre Projet	Chargé de Projet
NA	Ekalugad	Cathy Baptista

Résultats du Contrôle de Qualité (CQ) - 2e partie

Paramètres (No.Séquence)	Duplicata			
	Unité	Valeur 1	Valeur 2	Écart (%)
Hydrocarbures pét. C6@C10 (F1)				
No Séquence: 134429	(No éch)		(1351895)	
Hydrocarbures pétroliers C6@C10 (F1)	mg/kg	< 10	< 10	-
Hydrocarbures pétroliers C10@C50 (F2@F4)				
No Séquence: 134630	(No éch)		(1351897)	
Hydrocarbures pétroliers C10@C16 (F2)	mg/kg	< 20	< 20	-
Hydrocarbures Pétroliers C16@C34 (F3)	mg/kg	< 20	< 20	-
Hydrocarbures Pétroliers C34@C50 (F4)	mg/kg	< 20	< 20	-
Somme des hydrocarbures pétroliers C10@C50 (F2@F4)	mg/kg	ND	ND	-

Commentaires CQ

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APPENDIX 3: ANALYTICAL RESULTS