



**2011 Annual Report
to the
Nunavut Water Board**

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

Licence: 3BC-DYE0919– Type “B”

**Location: DYE-M North Warning System Site,
Cape Dyer, Qikiqtani Region, Nunavut**

**Report prepared by: Nasittuq Corporation,
27 March 2012**

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Report prepared by: Nasittuq Corporation,
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Executive Summary

This 2011 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-DYE0919– Type “B”, Part B. General Conditions, paragraph 1.

DYE-M is an unattended (unmanned) North Warning System radar site at Cape Dyer, 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 site was temporarily attended (manned) due to project activity in July and August.

A total of 118.1 cubic meters was drawn from the melt water water source DYE-1(b). This is below the 1,440 cubic meters annually allowed by the licence. No water was taken from the water lake DYE-1(a).

Hazardous waste was removed from the site for disposal outside of Nunavut. The following waste was shipped to Recyclex, Montreal-Est, QC: 32 drums of assorted waste (fuel, oil, glycol, fuel filters, oil filters, etc.), 1 crate of batteries, 2 crates of assorted waste (fire extinguishers, treated wood), and 1 crate of 17 5-gallon pails of waste oil.

Nonhazardous domestic solid waste was flown out to the Logistics Support Site - Iqaluit and disposed of at Iqaluit’s landfill. Nasittuq had documented authorization from the community for receiving the waste.

The two sumps, one for each sewage outfall, were not pumped out therefore no samples were taken for laboratory analysis.



One outdoor spill occurred, NT-NU Spill Report # 11-344. One liter of waste oil leaked from a drum that was likely punctured by a forklift during positioning for pick up by sealift. The spill was cleaned up immediately.

The Spill Contingency Plan was not revised.

Introduction

This 2011 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-DYE0919– Type “B”, Part B. General Conditions, paragraph 1.

DYE-M is an unattended (unmanned) North Warning System radar site at Cape Dyer, 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 site was temporarily attended (manned) due to project activity in July and August.

Water Drawn from DYE-1(b)

A total of 118.1 cubic meters was drawn from the melt water water source DYE-1(b). This is below the 1,440 cubic meters annually allowed by the licence. No water was taken from the water lake DYE-1(a). See Table 1 below for the volume of raw water drawn.

Table 1. Monthly and annual raw water drawn at DYE-M.

Month	Raw water drawn in cubic meters (m³)
January	0
February	0
March	0
April	0
May	0
June	0
July	0
August	79.5
September	38.6
October	0
November	0
December	0
TOTAL	118.1

Hazardous Waste and Waste Oil Disposal

Hazardous waste and waste oil were sent to an approved hazardous waste disposal site outside of Nunavut as required by the licence. The waste was sent to Recyclex, 8381 Place Marien, Montreal-Est, QC, H1B 5W6. The waste receiver number for Recyclex is 7610-06-01-01723111-40086392.

See Table 2 below for the list of items sent for disposal.

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

Table 2. Summary of waste sent for disposal from DYE-M.

Site	Description, TDG shipping name	Quantity	Movement Document or Nasittuq Manifest #
DYE-M	Waste batteries, wet, filled with acid	1 crate	Mov. Doc. 2464240-7
DYE-M	Waste aerosols	1 drum	Mov. Doc. 2464325-6
DYE-M	Waste fuel filters Waste environmentally hazardous substance, n.o.s. (fuel, aviation, turbine engine)	1 drum	Mov. Doc. 2464325-6
DYE-M	Waste paint related material	1 drum	Mov. Doc. 2464325-6
DYE-M	Waste fuel Waste fuel, aviation, turbine engine	6 drums	Mov. Doc. 2464326-4
DYE-M	Waste fuel mixture (tank bottom water/tank cleaning effluent) Waste fuel, aviation, turbine engine mixture	6 drums	Mov. Doc. 2464326-4
DYE-M	Waste oily rags Waste solids containing flammable liquid, n.o.s. (fuel, aviation, turbine engine)	2 drums	Mov. Doc. 2464326-4

Table 2. Summary of waste sent for disposal from DYE-M (continued)

Site	Description, TDG shipping name	Quantity	Movement Document or Nasittuq Manifest #
DYE-M	Waste oil	12 drums	Nas. Man. 26524, 26525, 26526
DYE-M	Waste treated wood	1 crate	Nas. Man. 26541
DYE-M	Waste oil filters	2 drums	Nas. Man. 26541, 26544
DYE-M	Waste glycol	1 drum	Nas. Man. 26544
DYE-M	Waste oil (5-gallon pail)	1 crate of 17 pails	Nas. Man. 26549
DYE-M	Waste fire extinguisher	1 crate	Nas. Man. 26552

Nonhazardous Solid Waste Disposal

Nonhazardous domestic solid waste was flown out to the Logistics Support Site - Iqaluit 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.

Table 3. Monthly and annual nonhazardous domestic solid waste sent for disposal from DYE-M.

Month	Waste generated (kg)
January	410
February	396
March	179
April	0
May	0
June	0
July	0
August	220
September	180
October	140
November	151
December	214
TOTAL	1,890

Monitoring Program

See **Annex B** for the location of the sewage effluent outfall, DYE-2, with GPS co-ordinates. Two sumps, one for each sewage outfall, were built in 2010.

Annex C is blank. The two sumps, one for each sewage outfall, were not pumped out therefore no samples were taken for laboratory analysis.

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

See **Annex E** 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.

Spills (Unauthorized Discharges)

One outdoor spill occurred. It is listed in Table 4 below.

Table 4. Outdoor spill at DYE-M.

Date, Spill #	Product	Quantity	Cause and follow-up action	Location at DYE-M
21 Aug 2011, Spill # 11-344	Waste oil	1 liter	A small hole was found in a drum of waste oil. Staff suspect that the drum was damaged by the fork lift when moving the pallet of drums of waste oil to prepare it to be shipped south to a hazardous waste disposal facility. Oil was cleaned from the pallet using absorbents. Used absorbents and contaminated ground were placed in a container to be disposed of at a hazardous waste disposal facility outside of Nunavut. The contents of the damaged drum were pumped into a new drum.	Beach, landing area for sealift



Revisions to the Spill Contingency Plan

The Spill Contingency Plan was not revised

Progressive reclamation work undertaken

None undertaken.



Annex A

**2011 Movement documents for regulated waste and
Nasittuq manifests for non-regulated waste.**



MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document is valid for all federal
and provincial transport and environmental legislation.
Ce document de mouvement/marque est conforme aux lois fédérales
et provinciales sur les transports et la protection
de l'environnement.

2464326-4

This Movement document is valid for all federal
and provincial transport and environmental legislation.
Ce document de mouvement/marque est conforme aux lois fédérales
et provinciales sur les transports et la protection
de l'environnement.

A Generator / consignor Producteur / expéditeur		B Carrier / Transporteur		C Receiver / destinataire Récepteur / destinataire	
Company name / Nom de l'entreprise DND % NASITTUQ CORP		Registration No. / Provincial ID No. N° d'immatriculation - d'ici provincial NUG100003		Registration No. / Provincial ID No. N° d'immatriculation - d'ici provincial 822381	
Shipping address / Adresse postale 22 wing bldg 109 Hornell/Heighron POTHPO		Shipping address / Adresse postale 950 Blvd. Gédéon Cuthbert & Viger P.O. J6S-2E5		Shipping address / Adresse postale 22 wing bldg 109 Hornell/Heighron POTHPO	
City / Ville 70549420112244		City / Ville 897285-6323		City / Ville 70549420112244	
Province NU		Province NU		Province NU	
Postal code / Code postal CAPE Dyer		Postal code / Code postal CAPE Dyer		Postal code / Code postal CAPE Dyer	
Intended Receiver / destinataire Recipient/destinataire prévu RECYCLEX INC.		Registration No. / Provincial ID No. N° d'immatriculation - d'ici provincial 4603-580-01 017231140008636		Registration No. / Provincial ID No. N° d'immatriculation - d'ici provincial 4603-580-01 017231140008636	
Shipping address / Adresse postale 9381 Place marien, Montreal QC H1B 5W6		Shipping address / Adresse postale 9381 Place marien, Montreal QC H1B 5W6		Shipping address / Adresse postale 9381 Place marien, Montreal QC H1B 5W6	
City / Ville Montreal QC		City / Ville Montreal QC		City / Ville Montreal QC	
Province QC		Province QC		Province QC	
Postal code / Code postal H1B 5W6		Postal code / Code postal H1B 5W6		Postal code / Code postal H1B 5W6	
Phone 514 875-3339		Phone 514 875-3339		Phone 514 875-3339	
Fax 514 875-3339		Fax 514 875-3339		Fax 514 875-3339	
Email / Courriel électronique francois.bouchard@recyclex.com		Email / Courriel électronique francois.bouchard@recyclex.com		Email / Courriel électronique francois.bouchard@recyclex.com	
Intended Receiver / destinataire Recipient/destinataire prévu FRANCOIS BOUCHARD		Intended Receiver / destinataire Recipient/destinataire prévu FRANCOIS BOUCHARD		Intended Receiver / destinataire Recipient/destinataire prévu FRANCOIS BOUCHARD	
Tel No. / N° de tél. 514 875-3339		Tel No. / N° de tél. 514 875-3339		Tel No. / N° de tél. 514 875-3339	
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Intended Receiver / destinataire Recipient/destinataire prévu WASTE Fuel augmentation Turbine engine		Intended Receiver / destinataire Recipient/destinataire prévu WASTE Fuel augmentation Turbine engine		Intended Receiver / destinataire Recipient/destinataire prévu WASTE Fuel augmentation Turbine engine	
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Packing / Type of Gr. d'emballage Description / Description III		Packing / Type of Gr. d'emballage Description / Description III		Packing / Type of Gr. d'emballage Description / Description III	
Quantity / Quantité Description / Description 760 L		Quantity / Quantité Description / Description 560 L		Quantity / Quantité Description / Description 200 Kg	
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Net weight / Poids net 601		Net weight / Poids net 601		Net weight / Poids net 201	
Packing Content / Contenu de l'emballage L		Packing Content / Contenu de l'emballage L		Packing Content / Contenu de l'emballage S	
Physical state / Etat physique LIQUID		Physical state / Etat physique LIQUID		Physical state / Etat physique SOLID	
Quantity received / Quantité reçue 760 L		Quantity received / Quantité reçue 560 L		Quantity received / Quantité reçue 200 K	
Quantity remaining / Quantité restante 0 L		Quantity remaining / Quantité restante 0 L		Quantity remaining / Quantité restante 0 K	
Comments / Commentaires International use only		Comments / Commentaires International use only		Comments / Commentaires International use only	
Signature / Signature Peter Stoppard		Signature / Signature Peter Stoppard		Signature / Signature Peter Stoppard	
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NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD	Date: Aug 17, 2011 8:59 AM				TCN-26524	
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818			Priority 0	
Attention:		Attention:				
Carrier: NEAS	Routing: 48X48X40	Waybill #:	Total Pcs. 1	Total Weight: 550 KG		
QTY Order	Type	Line Weight	Item Description	WO or PO	B/Code or S/N	Remarks
4.0		2002406	WASTE - OIL (45 GALLON DRUM)			ASSET 310018,310016,317455,317434

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

Received By:	Date
Received By:	Date

29-Feb-2012 1:49 PM



NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD		Date: Aug 17, 2011 9:03 AM	TCN-26525			
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818			Priority 0	
Attention:		Attention:				
Carrier: NEAS		Routing: 48X48X40	Waybill #:	Total Pcs. 1	Total Weight: 495 KGKG	
QTY Order	Type	Line Weight	Description	WO or PO	B/Code or S/N	Remarks
4.0		2002406	WASTE - OIL (45 GALLON DRUM)			ASSET 310017,310015,318486,318487

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

Received By:	Date
Received By:	Date

29-Feb-2012 1:50 PM



NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD	Date: Aug 17, 2011 9:05 AM				TCN-26526	
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818			Priority 0	
Attention:		Attention:				
Carrier: NEAS	Routing: 48X48X40	Waybill #:	Total Pcs. 1	Total Weight: 485 KGKGKG		
QTY Order	Type	Line Weight	Item Description	WO or PO	B/Code or S/N	Remarks
4.0	2002406		WASTE - OIL (45 GALLON DRUM)	ASSET 317989 / 317991 / 317990 / 317992		

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

Received By:	Date
Received By:	Date

29-Feb-2012 1:51 PM



NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD		Date: Aug 17, 2011 6:31 PM	TCN-26541			
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818			Priority 0	
Attention:		Attention:				
Carrier: NEAS		Routing: 48X48X40	Waybill #:	Total Pcs. 1	Total Weight: 250 kg	
QTY Order	Type	Line Weight	Description	WO or PO	B/Code or S/N	Remarks
1.0	2002356		WASTE - OIL FILTERS (DRUM)			asset 310022
1.0	2012227		WASTE - TREATED WOOD			asset 309890

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

Received By:	Date
Received By:	Date

29-Feb-2012 1:52 PM



NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD		Date: Aug 17, 2011 6:44 PM	TCN-26544		
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818			Priority 0
Attention:		Attention:			
Carrier: NEAS		Routing:	Waybill #:	Total Pcs.	Total Weight:
1.0	2002344	WASTE - GLYCOL (DRUM)			ASSET 310020
1.0	2002356	WASTE - OIL FILTERS (DRUM)			ASSET 317433
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.					
			Received By:	Date	
			Received By:	Date	

29-Feb-2012 1:53 PM



NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD		Date: Aug 18, 2011 1:07 PM	TCN-26549			
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818	Priority 0			
Attention:		Attention:				
Carrier: NEAS		Routing: 45x45x40	Waybill #:	Total Pcs. 1	Total Weight: 425 kg	
QTY Order	Type	Line Weight	Description	WO or PO	B/Code or S/N	Remarks
1.0	2003658		WASTE - OIL (5 GALLON PAIL)			asset 309784/309786/309792/ 309777/309795/309789/309783/ 309785/309796/309790/309782/ 309794/318499/318500/318501/ 318502/3188503
NOTE: All claims related to this shipment have to be filed with Nasittuq within 45 hours of receipt.				Received By:	Date	
				Received By:	Date	

29-Feb-2012 1:53 PM



NASITTUQ MANIFEST

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

NON NEGOTIABLE

Filled By: PSHEPPARD	Date: Aug 18, 2011 6:26 PM				TCN-26552	
Ship To: RECYCLEX INC. 8381 PLACE MARIEN MONTREAL, QC, H1B 5W6 CA 514-355-4150		From: DYE-M, CAPE DYER, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818			Priority 0	
Attention:		Attention:				
Carrier: NEAS	Routing: 24x36x30	Waybill #:	Total Pcs. 1	Total Weight: 145 kg		
QTY Order	Type	Line Weight	Item Description	WO or PO	B/Code or S/N	Remarks
4.0			1060664 EXTINGUISHER,FIRE,DRY CHEMICAL			asset 127569/127570/127571/ 127572
3.0			1009310 EXTINGUISHER,FIRE,DRY CHEMICAL			asset 117838/117839/117841
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.				Received By:	Date	
				Received By:	Date	

29-Feb-2012 1:54 PM

Annex B

DYE-M - Sewage Outfall Location (DYE-2) with GPS Co-ordinates





Annex C

**This Annex has been left blank intentionally.
(The two sumps, one for each sewage outfall, were not pumped out therefore no samples were taken for laboratory analysis.)**



Annex D

DYE-M - 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-DYE0919 Type "B"	DYE-M North Warning System Site, Cape Dyer, Qikiqtani Region, Nunavut	DYE-3	<ul style="list-style-type: none">- Summit (behind PGS building)- Berm of tank W20A	66° 40' 00" N 61° 21' 27" W
			<ul style="list-style-type: none">- Summit behind 'B' train- Berm of tanks W22K, W22J, W22I, and W20B	66° 39' 54" N 61° 21' 25" W



Annex E

DYE-M - Analysis of Berm Water (Effluent from Bermed Fuel Storage Facilities)



12 July 2011

Summit (behind PGS building), Berm of Tank W20A

Page 1 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS

Exova
Accutest

Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1115961
Date: 2011-07-19
Date Submitted: 2011-07-15

Project: DYE - Main

P.O. Number:
Matrix: Water

Chain of Custody Number: 117693

PARAMETER	UNITS	MRL	LAB ID:	896367					GUIDELINE
			Sample Date:	2011-07-12					
			Sample ID:	DM - W20 A					
pH				6.38					
Phenols	mg/L	0.001		<0.001					
Arsenic	mg/L	0.05		<0.05					
Mercury	mg/L	0.0001		<0.0001					
Zinc	mg/L	0.05		<0.05					

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

Metals analysis performed on aqua-regia digest of sample material.

APPROVAL:

Ewan McRobbie
Inorganic Lab Supervisor

Methods references and/or additional QA/QC Information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



12 July 2011

Summit (behind PGS building), Berm of Tank W20A

Page 2 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS

Exova
Accutest

Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1115981
Date: 2011-07-19
Date Submitted: 2011-07-15

Project: DYE - Main

P.O. Number:
Matrix: Water

Chain of Custody Number: 117693

PARAMETER	UNITS	MRL	LAB ID:	896387					TYPE	LIMIT	UNITS
Polychlorinated Biphenyls - PCBs Polychlorinated Biphenyls (PCBs)	ug/L	0.1		<0.1							
			Sample Date:	2011-07-12					GUIDELINE		
			Sample ID:	DM - W20 A							

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

APPROVAL:

Mina Nasirai
Organic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



12 July 2011
Summit (behind PGS building), Berm of Tank W20A
Page 3 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS



Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1115981
Date: 2011-07-10
Date Submitted: 2011-07-15

Project: DYE - Main

P.O. Number:
Matrix: Water

Chain of Custody Number: 117693

PARAMETER	UNITS	MRL	LAB ID: 898387 Sample Date: 2011-07-12 Sample ID: DM - W20 A				GUIDELINE		
							TYPE	LIMIT	UNITS
VOLATILE ORGANIC COMPOUNDS - VOCs									
Benzene	ug/L	0.5	<0.5						
Ethylbenzene	ug/L	0.5	<0.5						
Toluene	ug/L	0.5	<0.5						
VOC SURROGATES									
Toluene-d8	%		102						
Oil & Grease									
Oil & Grease - Total	mg/L	1	<1						

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

APPROVAL:

Mina Nasirai
Organic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



12 July 2011

Summit (behind PGS building), Berm of Tank W20A

Page 4 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS

Exova
Accutest

Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1115960
Date: 2011-07-19
Date Submitted: 2011-07-15

Project: DYE - Main

P.O. Number:
Matrix: Water

Chain of Custody Number: 117693

PARAMETER	UNITS	MRL	LAB ID:	896386					GUIDELINE
			Sample Date:	2011-07-12					
			Sample ID:	BM - W20 A					
Cadmium	mg/L	0.0001							
Chromium	mg/L	0.001		<0.001					
Cobalt	mg/L	0.0002		<0.0002					
Copper	mg/L	0.001		0.004					
Lead	mg/L	0.001		<0.001					
Nickel	mg/L	0.005		<0.005					

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

APPROVAL:

Ewan McRobbie
Inorganic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



20 July 2011

Summit (behind 'B' train), Berm of Tank W22K, W22J, W22I, and W20B

Page 1 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS



Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1116724
Date: 2011-08-03
Date Submitted: 2011-07-25

Project: Dye-Main

P.O. Number:
Matrix: Wastewater
GUIDELINE

Chain of Custody Number: 132943

PARAMETER	UNITS	MRL	LAB ID:	898307	Sample Date:	2011-07-20	Sample ID:	DM-W22JK W20B	TYPE	LIMIT	UNITS
pH											
Phenols	mg/L	0.001									
Arsenic	mg/L	0.05									
Mercury	mg/L	0.0001									
Zinc	mg/L	0.05									

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

Metals analysis performed on aqua-regia digest of sample material due to solids present in sample. MRLs may be elevated.

APPROVAL:

Ewan McRobbie
Inorganic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



20 July 2011

Summit (behind 'B' train), Berm of Tank W22K, W22J, W22I, and W20B

Page 2 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS



Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1116724
Date: 2011-08-03
Date Submitted: 2011-07-25

Project: Dye-Main

P.O. Number:
Matrix: Wastewater
GUIDELINE

Chain of Custody Number: 132943

PARAMETER	UNITS	MRL	LAB ID:	898307	Sample Date:	2011-07-20	Sample ID:	DM-W22JK W20B	TYPE	LIMIT	UNITS
Polychlorinated Biphenyls - PCBs Polychlorinated Biphenyls (PCBs)	ug/L	0.1	<0.1								

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

APPROVAL:

Mina Nasirai
Organic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



20 July 2011

Summit (behind 'B' train), Berm of Tank W22K, W22J, W22I, and W20B

Page 3 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS

Exova
Accutest

Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1116724
Date: 2011-08-03
Date Submitted: 2011-07-25

Project: Dye-Main

P.O. Number:
Matrix: Wastewater
GUIDELINE

Chain of Custody Number: 132943

PARAMETER	UNITS	MRL	LAB ID: Sample Date: Sample ID:	898307 2011-07-20 DM-W22JK W20B					TYPE	LIMIT	UNITS
									GUIDELINE		
									OG	MAC	IMAC
VOLATILE ORGANIC COMPOUNDS - VOCs											
Benzene	ug/L	0.5									
Ethylbenzene	ug/L	0.5									
Toluene	ug/L	0.5									
VOC SURROGATES											
Toluene-d8	%										
Oil & Grease											
Oil & Grease - Total	mg/L	1									

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

APPROVAL:

Mina Nasirai
Organic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.



20 July 2011

Summit (behind 'B' train), Berm of Tank W22K, W22J, W22I, and W20B

Page 4 of 4

EXOVA ACCUTEST

REPORT OF ANALYSIS



Client: Nasittuq Corp. (Ottawa)
100-170 Laurier Ave. West

Ottawa, ON
K1P 5V5
Attention: Ms. Barb Thomson

Report Number: 1116725
Date: 2011-07-28
Date Submitted: 2011-07-25

Project: Dye-Main

P.O. Number:
Matrix: Wastewater
GUIDELINE

Chain of Custody Number: 132943

PARAMETER	UNITS	MRL	LAB ID:	898309					TYPE	LIMIT	UNITS
			Sample Date:	2011-07-20							
			Sample ID:	DM-W22JK W20B							
Cadmium	mg/L	0.0001									
Chromium	mg/L	0.001		<0.0001							
Cobalt	mg/L	0.0002		<0.0002							
Copper	mg/L	0.001		0.002							
Lead	mg/L	0.001		<0.001							
Nickel	mg/L	0.005		<0.005							

MRL = Method Reporting Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

898309: Metals analysis performed on aqua-regia digest of sample material due to solids present in sample. MRLs may be elevated.

APPROVAL:

Ewan McRobbie
Inorganic Lab Supervisor

Methods references and/or additional QA/QC information available on request.

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

1 of 1

Results relate only to the parameters tested on the samples submitted.