

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE JULY 27 2017 NO **6196**

CONSIGNOR/CUSTOMER SITE ADDRESS
 Name: ROWES/OUTCOMES
 Address: JERICHO MINE, NU
 Telephone: Contact: GERECKS ELECHI
 Generator Pin #: Manifest #: NT12479-1

CONSIGNEE/RECEIVER SITE ADDRESS
 Name: KBL ENVIRONMENTAL
 Address: 17 CAMERON RD
YELLOWKNIFE, NT X1A 2P4
 Telephone: (867) 878-5263 Contact: JEFF BRIDGEMAN
 Receiver Pin #: NT000123 Manifest #: NT12479-1

CUSTOMER BILLING ADDRESS
 Name: ROWES/OUTCOME
 Address:
 Telephone: Contact:
 Email: PO #:

CARRIER/TRANSPORTER
 Name: AKR TUDI
 Address:
 Driver: Unit #:
 Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>3 X DR WASTE LEACHATE GLYCOL</u>	<u>N/R</u>	<u>N/R</u>	<u>N/R</u>	<u>5</u>	<u>01</u>	<u>5</u>	<u>DRUMS</u>	

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
 All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

 ABOVE NAME PRINTED
Coleman Sadler

DRIVER SIGNATURE
 ABOVE NAME PRINTED

CONSIGNEE SIGNATURE
 ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12479-1

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

A Generator / consigneur Producteur / expéditeur RCWES / OUTCOME		B Carrier Transporteur AIR TINDI YELLOWKANE NT		C Receiver / consignee 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		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Company name / Nom de l'entreprise	
E-mail / Courriel électronique Tel. No. / N° de tél. ()		E-mail / Courriel électronique Tel. No. / N° de tél. ()		Mailing address / Adresse postale	
Shipping site address / Adresse du lieu de l'expédition JERICHO MINE, NT		Vehicle / Véhicule Registration No. / N° d'immatriculation Prov.		City / Ville Province Postal code / Code postal	
City / Ville Province Postal code / Code postal		Trailer - Rail car No. 1 1 ^{re} remorque - wagon		E-mail / Courriel électronique Tel. No. / N° de tél. ()	
Intended Receiver / consignee RÉCEPTIONNAIRE / DESTINATAIRE PRÉVU KBL ENVIRONMENTAL		Port of entry / Point d'entrée International use only Port of exit / Point de sortie International use only		Receiving site address / Adresse du lieu de destination	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal P.O. BOX 1895 YELLOWKANE NT XIA 2P4		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.		Year / Année Month / Mois Day / Jour Signature:	
E-mail / Courriel électronique Tel. No. / N° de tél. ()		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie):		Date received / Date de réception Time / Heure Year / Année Month / Mois Day / Jour <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Receiving site address / Adresse du lieu de destination 17 CAMERON RD		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, préciser le nom du destinataire	
City / Ville Province Postal code / Code postal YELLOWKANE NT XIA 2P4		Year / Année Month / Mois Day / Jour Signature:		Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial	
Prov. code Code prov.		Shipping name Appellation réglementaire		Quantity received Quantités reçues	
Class / Classe Sub. class(es) / Classe(s) sub.		UN No. N° NU		Units L or / ou Kg Unités	
Packing / risk gr. Gr. d'emballage / de risque		Quantity shipped Quantités expédiées		Packaging/Contentant No. / N° Codes Phys. state État phys.	
(i) N/R WASTE LEACHATE - GLYCOL N/R N/R N/R 1025 675 L 85 01 L					
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		National code in country of / Code du pays	
Shipment Envoi		Of / De		Export Import Exportation Importation	
D or R code Code D ou R		C code Code C		Customs code(s) Code(s) de douanes	
Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE		H code Code H		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)	
Y code Code Y		National code in country of / Code du pays		Tel. No. / N° de tél.	
(i)		(ii)		(iii)	
(iv)		(v)		(vi)	
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Date shipped / Date d'expédition Time / Heure Year / Année Month / Mois Day / Jour <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Shipment Envoi		Of / De		Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
D or R code Code D ou R		C code Code C		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)	
Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE		H code Code H		Signature	
Y code Code Y		National code in country of / Code du pays		Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre:	
(i)		(ii)		(iii)	
(iv)		(v)		(vi)	

Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.

Name of authorized person (print)
 Nom de l'agent autorisé (caractère d'imprimerie)
Coleman Sadler
 Signature
Coleman Sadler

Instructions on reverse
 Instructions au verso

Copy / Copie 1 (white / blanche)

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT14107-6

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

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés	
Company name / Nom de l'entreprise Rstv Jericho Mines		Company name / Nom de l'entreprise Buffalo Airways Yellowknife		C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal Jericho Mines		Mailing address / Adresse postale City / Ville Province Postal code / Code postal Yellowknife		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
E-mail / Courrier électronique Tel. No. / N° de tél.		E-mail / Courrier électronique Tel. No. / N° de tél.		Company name / Nom de l'entreprise KBL Environmental	
Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal		Vehicle / Véhicule Registration No. / N° d'immatriculation Prov. 24 Trailer - Rail car No. 1 1 ^{re} remorque - wagon Trailer - Rail car No. 2 2 ^{de} remorque - wagon		Mailing address / Adresse postale City / Ville Province Postal code / Code postal Yellowknife NT	
Intended Receiver / consignee Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial KBL Environmental Mailing address / Adresse postale City / Ville Province Postal code / Code postal Yellowknife E-mail / Courrier électronique Tel. No. / N° de tél.		Port of entry Point d'entrée (International Line only) Port of exit Point de sortie (International Line only)		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.	
Receiving site address / Adresse du lieu de destination City / Ville Province Postal code / Code postal Yellowknife NT		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) Signature Year / Année Month / Mois Day / Jour 17 10 10		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	
Prov. code Code prov.		Shipping name Appellation réglementaire		Class / Classe Sub. class(es) Class(es) sub.	
UN No. N° NU		Packing / nsk gr. Gr. d'emballage/ de risque		Quantity shipped Quantité expédiée	
Units Lor / ou Kg Unités		Packaging/Container Codes Int.-ext.		Phys. state Etat phys.	
Quantity received Quantité reçue		Comments Commentaires		Handling Code / Code de manutention	
Shipment / Envoi Accepted / Refused Accepté / Refusé		Pack. / Veh. Cont. / Veh.		Decort. Cont. / Veh.	
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Shipmt / Envoi Of / De	
D or R code Code D 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		National code in country of / Code du pays	
Export Exportation		Import Importation		Customs code(s) Code(s) de douanes	
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur : J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature		Tel. No. / N° de tél.	
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	
Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre		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.	

Instructions on reverse
Instructions au verso

Copy / Copie 1 (white / blanche)

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE Oct 10, 2017

NO **4772**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Rajv
 Address: Jericho Mines
 Telephone: _____ Contact: _____
 Generator Pin #: _____ Manifest #: _____

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: Yellowknife
 Telephone: _____ Contact: _____
 Receiver Pin #: _____ Manifest #: _____

CUSTOMER BILLING ADDRESS

Name: _____
 Address: _____
 Telephone: _____ Contact: _____
 Account #: _____ PO #: _____

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: Yellowknife
 Driver: _____ Unit #: _____
 Carrier Pin #: _____

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required _____ Type _____

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION						EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING		U M		
					NO.	CODE			
1.	Waste oil + glycol + water + sludge				7	200			
					4	drums			
					<u>23897 lbs</u>				

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: _____ TRANSPORT TIME: _____

General Terms and Conditions:
 Wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, features, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED J. TAPPAN

ABOVE NAME PRINTED

Copy - File Pink - Receiver Coloured - Carrier

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE Oct 07, 2017

NO **4771**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: ROJV
 Address: Jenicho Mines

Telephone: _____ Contact: _____
 Generator Pin #: _____ Manifest #: _____

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental Ltd
 Address: PO Box 1108
Yellowknife

Telephone: _____ Contact: _____
 Receiver Pin #: _____ Manifest #: _____

CUSTOMER BILLING ADDRESS

Name: _____
 Address: _____
 Telephone: _____ Contact: _____
 Account #: _____ PO #: _____

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: Yellowknife

Driver: _____ Unit #: _____
 Carrier Pin #: _____

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required _____ Type _____

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>1. Waste oil + water</u>				<u>4</u>	<u>Tote</u>			
	<u>2. Glycerol + oil + water</u>				<u>1</u>	<u>Tote</u>			
					<u>5 Tote</u>				
					<u>1200 lbs</u>				

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: _____ TRANSPORT TIME: _____

General Terms and Conditions:

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CONSIGNOR SIGNATURE

DRIVER SIGNATURE [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED J. T. [Signature]

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE Oct 05, 2017

NO **4770**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: ROJV
 Address: Jericho Mines

Telephone: _____ Contact: _____
 Generator Pin #: _____ Manifest #: _____

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: Yellowknife

Telephone: _____ Contact: _____
 Receiver Pin #: _____ Manifest #: _____

CUSTOMER BILLING ADDRESS

Name: _____
 Address: _____
 Telephone: _____ Contact: _____
 Account #: _____ PO #: _____

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: _____
 Driver: _____ Unit #: _____
 Carrier Pin #: _____

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required _____ Type _____

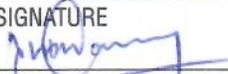
D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION				U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE			
1.	<u>Waste oil + water + Glycol</u>				<u>6 Tote</u>			

16,466 lbs

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: _____ TRANSPORT TIME: _____

General Terms and Conditions:
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CONSIGNOR SIGNATURE


DRIVER SIGNATURE


CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED
C VAN DRUNEN

ABOVE NAME PRINTED

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE Sept 27 2017

NO **4768**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: ROJV
 Address: Jericho Mines
Nunavut
 Telephone: 867-675-3810 Contact:
 Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: 17 Cameron Rd. Box # 1815
 Telephone: 867-873-5263 Contact: Jeff Bambridge
 Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
 Address:
 Telephone: Contact:
 Account #: PO #:

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: Box # 2015, Yellowknife
 Driver: Unit #:
 Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>1. Glycol + oil + water</u>				<u>12 Drums</u>				
	<u>2. Gear oil</u>				<u>6 Drums</u>				
	<u>3. Antifreeze</u>				<u>4 Tanks</u>				
					<u>10376 Ltrs</u>				

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:

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CONSIGNOR SIGNATURE [Signature]

DRIVER SIGNATURE [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED G. Elch

ABOVE NAME PRINTED JEFF TAPPAN

ABOVE NAME PRINTED

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE 22 Sept 2017 NO **4767**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine N.W.
 Address:
 Telephone: Contact:
 Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: 17 Cameron Rd Box 1815
 Telephone: 867-873-5263 Contact: Jeff Bembridge
 Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name: ROJV
 Address:
 Telephone: Contact:
 Account #: PO #:

CARRIER/TRANSPORTER

Name: Buffalo Air
 Address: Yellowknife
 Driver: Unit #:
 Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>waste Glycol/oil mix</u>	<u>N/R</u>	<u>N/R</u>	<u>52</u>	<u>drums</u>				
					<u>22 52 lbs</u>				

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
 All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE
[Signature]

DRIVER SIGNATURE
[Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED
G. Elachi

ABOVE NAME PRINTED
X JEFF TAPPOE

ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT14103-5

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

A Generator / consigneur Producteur / expéditeur				B Carrier Transporteur				C Receiver / consignee Réceptionnaire / destinataire			
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial				Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial				Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés			
Company name / Nom de l'entreprise Roves construction				Company name / Nom de l'entreprise 108 Berry St Yellow				Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous			
Mailing address / Adresse postale City / Ville Province Postal code / Code postal				Mailing address / Adresse postale City / Ville Province Postal code / Code postal				Company name / Nom de l'entreprise			
E-mail / Courrier électronique Jericho mine site				E-mail / Courrier électronique 17709212				Mailing address / Adresse postale			
Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal				Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{re} remorque - wagon		Registration No. / N° d'immatriculation		Prov. 24		City / Ville Province Postal code / Code postal	
Intended Receiver / consignee Réceptionnaire / destinataire prévu				Port of entry Point d'entrée		Port of exit Point de sortie		25		E-mail / Courrier électronique Tel. No. / N° de tél.	
KBL Environmental Box 1895 Yellowknife X1A 2A4				International use only		International use only		26		Receiving site address / Adresse du lieu de destination Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal				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.							
E-mail / Courrier électronique Tel. No. / N° de tél.				Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie):				Tel. No. / N° de tél.			
Receiving site address / Adresse du lieu de destination City / Ville Province Postal code / Code postal				Year / Année		Month / Mois		Day / Jour		Signature:	
17 Cameron Rd Yellowknife NT X1A 2P4				17		09		21		2	
Prov. code Code prov.			Shipping name Appellation réglementaire			Class / Classe Sub. class(es) Classes(es) sub.			UN No. N° NU		
(i)			Waste Glycol/oil			N/R			52 drums		
(ii)									22,572 lbs		
(iii)											
(iv)											
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Shipment Envoi		O / De		D or R code Code D ou R		C code Code C	
(i)											
(ii)											
(iii)											
(iv)											
National code in country of / Code du pays				Export Exportation				Import Importation			
18				19				19			
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)			
36				37				37			
Signature				Tel. No. / N° de tél.				38			
()				()				39			
Special handling / Manutention spéciale				Date shipped / Date d'expédition				Time / Heure			
40				41				41			
<input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre				Year / Année Month / Mois Day / Jour				Year / Année Month / Mois Day / Jour			
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.				Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)				Tel. No. / N° de tél.			
42				42				42			
Signature				Date shipped / Date d'expédition				Time / Heure			
43				43				43			
()				Year / Année Month / Mois Day / Jour				Year / Année Month / Mois Day / Jour			
44				44				44			

Instructions on reverse
Instructions au verso

Copy / Copie 1 (white / blanche)

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE: September 12 2017

NO **4766**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine N.U
 Address:

Telephone: Contact:
 Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: 17 CAMERON Rd Box 1815

Telephone: 867-273-5263 Contact: Jeff Bembridge
 Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
 Address:
 Telephone: Contact:
 Account #: PO #:

CARRIER/TRANSPORTER

Name:
 Address:
 Driver: Unit #:
 Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION				Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE			
	<u>Waste Glycol/Oil Mix</u>	<u>N/R</u>	<u>N/R</u>		<u>16 drums</u>		<u>16 drums</u>	<u>792/165</u>
	<u>Used Fuel Filters</u>				<u>2 drums</u>		<u>2 drums</u>	<u>164 lbs</u>

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
 All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE
x [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED
x Wes Hiltz

ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT14101-9

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

A Generator / consigneur Producteur / expéditeur		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		B Carrier Transporteur		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés	
Company name / Nom de l'entreprise Ag ves construction		Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Company name / Nom de l'entreprise		Mailing address / Adresse postale City / Ville Province Postal code / Code postal 108 Berry St Yellowknife NT X1A 2P4		C Receiver / consignee Réceptionnaire / destinataire	
E-mail / Courriel électronique		Tel. No. / N° de tél.		E-mail / Courriel électronique		Tel. No. / N° de tél.		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	
Shipping site address / Adresse du lieu de l'expédition		City / Ville Province Postal code / Code postal		Vehicle / Véhicule		Registration No. / N° d'immatriculation		Prov.	
Intended Receiver / consignee Réceptionnaire / destinataire prévu		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Port of entry Point d'entrée		Port of exit Point de sortie		25	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal		E-mail / Courriel électronique		Tel. No. / N° de tél.		Year / Année Month / Mois Day / Jour		Signature	
E-mail / Courriel électronique		Tel. No. / N° de tél.		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie):		Tel. No. / N° de tél.		Date received / Date de réception	
Shipping site address / Adresse du lieu de destination		City / Ville Province Postal code / Code postal		Year / Année Month / Mois Day / Jour		Signature		Time / Heure	
Prov. code Code prov.		Shipping name Appellation réglementaire		Class / Classe Sub. class(es) Classe(s) sub.		UN No. N° NU		Packing / risk gr. Gr. d'emballage/ de risque	
Quantity shipped Quantité expédiée		Units L or / ou Kg Unités		Packaging/Contentant Codes Int-ext.		Phys. state État phys.		Quantity received Quantité reçue	
Units L or / ou Kg Unités		Comments Commentaires		Handling Code / Code de manutention		Shipment / Envoi Accepted / Refused Accepté / Refusé		Decort. Veh. Pack. Veh.	
Notice No. N° de notification		Notice Line No N° de ligne de la notification		Shipment Envoi		Of / De		D or R code Code D 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		National code in country of / Code du pays	
Export Exportation		Import Importation		Customs code(s) Code(s) de douanes		If handling code "Other" (specify) Si code de manutention « autre » (spécifier)		36	
Signature		Tel. No. / N° de tél.		Special handling / Manutention spéciale		37		22	
Signature		Tel. No. / N° de tél.		Attached / Ci-joint		As follows / Ci-contre		Date shipped / Date d'expédition	
Signature		Tel. No. / N° de tél.		Year / Année Month / Mois Day / Jour		Time / Heure		Scheduled arrival date / Date d'arrivée prévue	
Signature		Tel. No. / N° de tél.		Year / Année Month / Mois Day / Jour		Year / Année Month / Mois Day / Jour		Year / Année Month / Mois Day / Jour	

Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.

Name of authorized person (print)
Nom de l'agent autorisé (caractères d'imprimerie)
Tel. No. / N° de tél.
Signature

Instructions on reverse
Instructions au verso

Copy / Copie 1 (white / blanche)

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

DATE Sept 09, 2017

NO **4765**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: ROYV Jericho Mine

Address:

Telephone: Contact:

Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental

Address: 17 Cameron Rd / Box 1815

Telephone: 867-873-263 Contact: Jeff Bombardje

Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:

Address:

Telephone: Contact:

Account #: PO #:

CARRIER/TRANSPORTER

Name: AIR TINDI

Address: Box 2015
Yellowknife NT

Driver: Unit #:

Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION				U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE			
1	<u>FIRE Extinguishers (used)</u>				4 <u>Ply Box</u>			
2	<u>Plastic Waste</u>				5 <u>Mess Bag</u>			

~~5400~~ lb
2320 lb

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME:

TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12500-4

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

A Generator / consigneur Producteur / expéditeur		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	B Carrier Transporteur		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés
Company name / Nom de l'entreprise ROJV			Company name / Nom de l'entreprise			
Mailing address / Adresse postale Jericho Mines		City / Ville Jericho	Province NT	Postal code / Code postal		
E-mail / Courrier électronique		Tel. No. / N° de tél. ()	E-mail / Courrier électronique		Tel. No. / N° de tél. ()	
Shipping site address / Adresse du lieu de l'expédition			Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{er} remorque - wagon		Registration No. / N° d'immatriculation	Prov. 24
City / Ville		Province	Postal code / Code postal	Trailer - Rail car No. 2 2 ^e remorque - wagon		
Intended Receiver / consignee Réceptionnaire / destinataire prévu		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Port of entry Point d'entrée		Port of exit Point de sortie
KBL Environmental		NT R002/23		International use only		International use only
Mailing address / Adresse postale Box 1295 Yellowknife		City / Ville Yellowknife	Province NT	Postal code / Code postal X1A 2P4		
E-mail / Courrier électronique 12 Cameron Road		Tel. No. / N° de tél. ()	E-mail / Courrier électronique		Tel. No. / N° de tél. ()	
Receiving site address / Adresse du lieu de destination Yellowknife NT		Province NT	Postal code / Code postal X1A 2P4		Signature: B. DATT	
City / Ville		Province	Postal code / Code postal	Year / Année 07		Month / Mois 09
Day / Jour		Signature		Year / Année		Month / Mois
Day / Jour		Signature		Year / Année		Month / Mois

Prov. code Code prov.	Shipping name Appellation réglementaire	Class / Classe Sub. class(es) Classe(s) sub.	UN No. N° NU	Packing / risk gr. Gr. d'emballage/ de risque	Quantity shipped Quantité expédiée	Units L or / ou Kg Unités	Packaging/Contenant No. / N° Codes Int-ext.	Phys. state État phys.
(i) NR	Batteries used	NR			207	246 lb		S
(ii) NR	50/50 mhp engine coolant	NR			1449	lb	3 Bunch	L
(iii) NR	Glycol	NR			3840	lb	6 Bunch	L
(iv) NR	Banquet	NR			1000	lb	1 Bunch	L

Notice No. N° de notification	Notice Line No N° de ligne de la notification	Shipment Envoi	Of / De	D or R code Code D 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	National code in country of / Code du pays	Export Exportation	Import Importation	Customs code(s) Code(s) de douanes
(i)												
(ii)												
(iii)												
(iv)												

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 (caractère 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 :		22	
---	--	----	--

Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)		20	
Signature		Tel. No. / N° de tél. ()	

Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour		Time / Heure Year / Année Month / Mois Day / Jour	
Year / Année		Year / Année	
Month / Mois		Month / Mois	
Day / Jour		Day / Jour	

Instructions on reverse
Instructions au verso

Copy / Copie 1 (white / blanche)

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

DATE Sept 07, 2017

NO **4764**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name:
Address:
Telephone: Contact:
Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
Address: 17 Cameron River Box 1811
Telephone: 867-873-2665 Contact: Jeff Benbrook
Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
Address:
Telephone: Contact:
Account #: PO #:

CARRIER/TRANSPORTER

Name: AIR TWDI
Address: Box 2011
Driver: Unit #:
Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>Batteries</u>	<u>NR</u>	<u>NR</u>	<u>2 Box</u>			<u>2000</u>		
	<u>50/50 mix engine coolant</u>	<u>NR</u>	<u>NR</u>	<u>3 Barrels</u>			<u>3 Bar</u>		
	<u>Glycol</u>	<u>NR</u>	<u>NR</u>	<u>6 Barrels</u>			<u>6 Bar</u>		
							<u>Total 6935 lbs</u>		

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE
[Signature]

DRIVER SIGNATURE
[Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED
G. Blech

ABOVE NAME PRINTED
BRATI

ABOVE NAME PRINTED

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

DATE August 31 2017

NO **4763**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name:
Address:

Telephone: Contact:
Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name:
Address:

Telephone: Contact:
Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
Address:

Telephone: Contact:
Account #: PO #:

CARRIER/TRANSPORTER

Name:
Address:

Driver: Unit #:
Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	Waste Glycol						6		
	Waste engine oil						10		
	used filters and soaker pads						3		
							total 7744		

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE
X [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED
X Garry Mottrell

ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12499-9

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

A Generator / consignior / Producteur / expéditeur Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial NTG000197 Company name / Nom de l'entreprise Finning Mailing address / Adresse postale City / Ville Province Postal code / Code postal PO Box 1739 Stn Main Yellowknife NT X1A 2P3 E-mail / Courrier électronique Tel. No. / N° de tél. 867 767-3000 Shipping site address / Adresse du lieu de l'expédition Jerricho mine site City / Ville Province Postal code / Code postal			B Carrier / Transporteur 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 108 Buxey St Yellowknife X1A 2P4 E-mail / Courrier électronique Tel. No. / N° de tél. () Vehicle / Véhicule Registration No. / N° d'immatriculation Prov. Trailer - Rail car No. 1 / 1 ^{er} remorque - wagon Trailer - Rail car No. 2 / 2 ^e remorque - wagon Port of entry / Point d'entrée International use only / Point of exit / Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consignior 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): Year / Année Month / Mois Day / Jour Signature 17 018 X Goulet/Maitzell			C Receiver / consignee / Réceptionnaire / destinataire Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial NTZ000123 Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input checked="" 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 17 09 14 <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		
Intended Receiver / consignee / Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial KBL Environmental NTR000123 Mailing address / Adresse postale City / Ville Province Postal code / Code postal Box 1845 Yellowknife NT 2P4 E-mail / Courrier électronique Tel. No. / N° de tél. 17 Cameron Rd Receiving site address / Adresse du lieu de destination Yellowknife NT X1A 2P4 City / Ville Province Postal code / Code postal			Quantity received / Quantités reçues Units / L or / ou kg / Unités Comments / Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Refused / Accepté / Refusé Decont. / Veh. / Pack. / Véh. (i) Waste oil MIX NR NIR NIR 6230 L 6 01 L 1,230 L (ii) Waste engine oil NIR NIR NIR 2050 L 10 01 L 2,050 L (iii) Waste engine oil (iv) Waste engine oil total 17744 lbs			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) Austin Spatz Signature Tel. No. / N° de tél. 867-873-5263 Special handling / Manutention spéciale <input type="checkbox"/> Attached /CI-joint <input type="checkbox"/> As follows /CI-contre		
Prox. code / Code prov. Shipping name / Appellation réglementaire Class / Classe / Sub. class(es) / Classe(s) sub. UN No. / N° NU Packing / risk gr. / Gr. d'emballage/ de risque Quantity shipped / Quantité expédiée Units / L or / ou kg / Unités Packaging/Contentment Codes / Codes Int - ext Phys. state / État phys. National code in country of / Code du pays Customs code(s) / Code(s) de douanes Notice No. / N° de notification Notice Line No. / N° de ligne de la notification Shipment / Envoi Of / De D or R code / Code D ou R C code / Code C Basel Annex VII or OECD Code / Annexe VII de Bâle ou Code OCDE H code / Code H Y code / Code Y Export / Importation Import / Importation			International use only			Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour		
Generator / consignior certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par le désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.			Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie) Tel. No. / N° de tél. Signature			Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour		

Instructions on reverse
Instructions au verso

Copy / Copie 3 (yellow / jaune)

BILL OF LADING



KBL Environmental Ltd.
 PO Box 1895
 17 Cameron Rd.
 Yellowknife, NT X1A 2P4

DATE: Sep 13, 2017

NO: YK000001523

CONSIGNOR / CUSTOMER SITE ADDRESS

Rowes Construction
 25 Studney Drive,
 Hay River,, NT X0E 0R0

Phone: (867) 874-3243

Generator Pin #: NTG000306

CUSTOMER BILLING ADDRESS

Rowes Construction
 25 Studney Drive,
 Hay River,, NT X0E 0R0

Phone: (867) 874-3243

CONSIGNEE / RECEIVER SITE ADDRESS

Yellowknife Waste Facility
 17 Cameron Road
 PO Box 1895

Yellowknife, NT X1A 2P4
 Receiver Pin #: NTR000123

Manifest #: NT13864-3,NT13865-0

CARRIER / TRANSPORTER

KBL Environmental Ltd.
 17 Cameron Rd.
 Yellowknife, NT X1A 2N8

PO #: JERICOH

Carrier Pin #: NTC000124

DANGEROUS GOOD INFO. 24 HOUR EMERGENCY PHONE # CANUTEC (613) 996-6666			PLACARDS REQUIRED BY CARRIER (PER T.D.G. REGULATIONS)						
			Yes	No	Number Required	Type			
D G	P.I.N.	SHIPPING NAME / DESCRIPTION	T.D.G. INFORMATION				QUANTITY	UOM	MASS OR VOLUME
			CLASS	PACKING GROUP	PACKING NO	PACKING CODE			
		REGULATED DANGEROUS GOODS							
X	1044	COMPRESSED GAS - FIRE EXTINGUISHERS ✓	2	N/A	30	07	30.00	EACH	
X	2794	BATTERIES - LEAD ACID ✓	8	III	2	07	2.00	SM CRATE	
		NON REGULATED DANGEROUS GOODS							
	NRL	WASTE LEACHATE-MIX ✓	NRL	NRL	14	01	14.00	DRUM	
	NRL	NON REGULATED LIQUID-PETROLEUM GREASE ✓	NRL	NRL	7	01	7.00	DRUM	
	NRL	WASTE LEACHATE-GLYCOL ✓	NRL	NRL	2	01	2.00	DRUM	
	NRL	WASTE LEACHATE-OIL ✓	NRL	NRL	2	07	2.00	TOTE	
	NRL	WASTE LEACHATE-MIX ✓	NRL	NRL	2	07	2.00	TOTE	
	NRS	NON REGULATED SOLIDS-GENERAL DEBRIS (plastics)	NRS	NRS	9	05	9.00	MEGABAG	

DG-Dangerous Goods (X-Yes)

TECHNICIAN TIME: 0.00

TRANSPORT TIME: 3.00

CONSIGNOR CERTIFICATION:

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, are properly classified and packaged, have dangerous goods safety marks properly affixed or displayed on them, and are in all respects in proper condition for transport according to the Transportation of Dangerous Goods Regulations.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE *[Signature]*

CONSIGNEE SIGNATURE *[Signature]*

ABOVE NAME PRINTED
Rowes Construction

ABOVE NAME PRINTED
Astusys

ABOVE NAME PRINTED
Astusys

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE

NO **4762**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name:
 Address:
 Telephone: Contact:
 Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: **KBL Environmental**
 Address: **17 Cameron Rd Box 1815**
 Telephone: **867-873-5263** Contact: **Jeff Benbridge**
 Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
 Address:
 Telephone: Contact:
 Account #: PO #:

CARRIER/TRANSPORTER

Name: **Buffalo Airways**
 Address: **Box 205**
 Driver: Unit #:
 Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	Waste Leachate mix	NR	NR		8		8		
	Petroleum Grease	NR	NR		7		7		
	totes of waste Glycol	NR	NR		4		4		
	Mega bags of plastics	NR	NR		8		8		

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
 All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE
[Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED
 J. TAPPAN

ABOVE NAME PRINTED

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE 2017-08-21

NO **4761**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine NU
 Address:

Telephone: Contact:

Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: 17 Cameron RD Box 1815

Telephone: (867) 8735263 Contact: Jeff Bombardier
 Receiver Pin #: NTR000122 Manifest #:

CUSTOMER BILLING ADDRESS

Name:

Address:

Telephone: Contact:

Account #: PO #:

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: Box 2015

Driver: Yellowknife NT Unit #:

Carrier Pin #:

DA DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO.	CODE			
	<u>Petroleum Grease</u>	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>7</u>		<u>7</u>	<u>Drums</u>	
	<u>Waste Leachate Mix</u>	<u>{</u>	<u>}</u>	<u>{</u>	<u>16</u>		<u>16</u>	<u>Drums</u>	
	<u>Waste Leachate Glycol</u>	<u>{</u>	<u>}</u>	<u>{</u>	<u>2</u>		<u>2</u>	<u>Drums</u>	
	<u>Waste Leachate Mix</u>	<u>{</u>	<u>}</u>	<u>{</u>	<u>3</u>		<u>3</u>	<u>Drums</u>	
	<u>Waste Leachate Glycol</u>	<u>{</u>	<u>}</u>	<u>{</u>					

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE [Signature]

DRIVER SIGNATURE [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED for Caridich

ABOVE NAME PRINTED Chris Van Drunen

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12497-3

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

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 1 Rows / Outcome		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 23 Buffalo Airways		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés 27	
				C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 28 Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes 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 Rows / Outcome		Company name / Nom de l'entreprise Buffalo Airways		Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal City / Ville Province Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél. Jericho Mine () Yellowknife NT	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal Jericho Mine ()		Mailing address / Adresse postale City / Ville Province Postal code / Code postal Box 2015 XIA 2P3 Yellowknife NT ()			
E-mail / Courrier électronique Jericho Mine ()		E-mail / Courrier électronique Yellowknife NT ()		Receiving site address / Adresse du lieu de destination Date received / Date de réception Year / Année Month / Mois Day / Jour <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. 29	
Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal		Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{er} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon Registration No. / N° d'immatriculation Prov. 24			
Intended Receiver / consignee Réceptionnaire / destinataire prévu 2 KBL Environment Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courrier électronique Tel. No. / N° de tél. 17 Cameron Rd Yellowknife NT XIA 2P4 City / Ville Province Postal code / Code postal		Port of entry Point d'entrée International use only Port of exit Point de sortie International use only 25 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): X Chris Van Drunen () Year / Année Month / Mois Day / Jour Signature: 17 09 21 X N.R.		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 30 Registration No./Provincial ID No. N° d'immatriculation/d'id provincial	
Prov. code Code prov. 3		Shipping name Appellation réglementaire 4		Class / Classe Sub. class(es) Classe(s) sub. 5	
UN No. N° NU 6		Packing / risk gr. Gr. d'emballage/ de risque 7		Quantity shipped Quantité expédiée 8	
Units L or / ou Kg Unités 9		Packaging/Contenant Codes int.-ext. 9		Phys. state Etat phys. 10	
Quantity received Quantité reçue 11		Units L or / ou kg Unités 31		Comments Commentaires 32	
Handling Code / Code de manutention 33		Shipment / Envoi Accepted / Refused Accepté / Refusé 34		Decont. Veh. Cont. / Véh. 35	
Notice No. N° de notification 11		Notice Line No N° de ligne de la notification 12		Shipment Envoi 13	
Of / De 12		D or R code Code D ou R 13		C code Code C 14	
Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE 15		H code Code H 16		Y code Code Y 17	
National code in country of / Code du pays 18		Export Exportation 19		Import Importation 19	
Customs code(s) Code(s) de douanes 19		If handling code "Other" (specify) Si code de manutention « autre » (spécifier) 36		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 (caractère 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: 22		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie) Signature Tel. No. / N° de tél. ()		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	
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/picarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie) Signature Tel. No. / N° de tél. () For Gerrichs		Retained by Consignor Gardée par l'expéditeur Copy / Copie 2 (green / verte)	

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE 2017-08-22

NO **4760**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jerichomine Nu

Address:

Telephone:

Contact:

Generator Pin #:

Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental

Address: 17 Cameron Rd Box 1815

Telephone: (867) 873 5263

Contact: John Pembroke

Receiver Pin #: NTR00123 Manifest #:

CUSTOMER BILLING ADDRESS

Name:

Address:

Telephone:

Contact:

Account #:

PO #:

CARRIER/TRANSPORTER

Name: Buffalo Airways

Address: Box 2015

Driver: Yellowknife NT Unit #:

Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					U M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>Corrosive Acid - Liquid</u>	<u>8</u>		<u>UN 3264</u>	<u>7</u>			<u>7 pails</u>	<input checked="" type="checkbox"/>
	<u>Potential - Asbestos</u>	<u>9</u>		<u>UN 2590</u>	<u>2</u>			<u>1 Double Bag</u>	<input checked="" type="checkbox"/>
	<u>Waste Leachate Glycol</u>	<u>NR</u>	<u>UN</u>	<u>UN</u>	<u>2</u>			<u>Drums</u>	
	<u>Waste Leachate Mix</u>	<u>NR</u>	<u>UN</u>	<u>UN</u>	<u>2</u>			<u>Drums</u>	
	<u>Waste Leachate - Light H₂O</u>	<u>NR</u>	<u>UN</u>	<u>UN</u>	<u>10</u>			<u>7 Totes</u>	<input checked="" type="checkbox"/>
	<u>Waste Leachate - Mix</u>	<u>NR</u>	<u>UN</u>	<u>UN</u>	<u>8</u>			<u>Totes</u>	
	<u>Adhesive</u>	<u>3</u>		<u>UN 1133</u>	<u>1</u>			<u>1 Pail</u>	<input checked="" type="checkbox"/>
	<u>Waste Leachate - Mix</u>	<u>NR</u>			<u>402</u>			<u>6 Drums</u>	

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME:

TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE
[Signature]

DRIVER SIGNATURE
[Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED
Garricks

ABOVE NAME PRINTED
Chris Van Drunen

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12496-5

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

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 1 Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 23 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. () Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{er} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon Registration No. / N° d'immatriculation Prov. 24 Port of entry Point d'entrée International use only Port of exit Point de sortie International use only 25 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. 26 Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature : 1 7 0 8 2 2 *		C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 2 Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes 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 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. 29 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 30 Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial										
Intended Receiver / consignee Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 2 Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Receiving site address / Adresse du lieu de destination City / Ville Province Postal code / Code postal		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature : 1 7 0 8 2 2 *		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 30 Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial										
Prov. code Code prov.	Shipping name Appellation réglementaire	Class / Classe Sub. class(es) Classes(s) sub.	UN No. N° NU	Packing / risk gr. Gr. d'emballage/ de risque	Quantity shipped Quantité expédiée	Units L or / ou Kg Unités	Packing/Contentant No. / N° Codes Int.-ext.	Phys. state État phys.	Quantity received Quantité reçue	Units L or / ou Kg Unités	Comments Commentaires	Handling Code / Code de manutention	Shipment / Envoi Accepted / Refusé Accepté / Refusé	Decont. Pack. / Veh Cont. / Vah
(i)	UN 3264	Corrosive Liquid - Acid	8 3264		10.5 kg	7		L						
(ii)	UN 3590	Potential - Asbestos	9 3590		5 kg	1		S						
(iii)	NR	Waste Leachate - Mix	NR		9.5 kg	1		L						
(iv)	NR	Waste Leachate - Mix	NR		4.5 kg	1		L						
		WASTE LEACHATE - MIX	NR		13.6 kg	2		L						
Notice No. / N° de notification Notice Line No. / N° de ligne de la notification Shipment / Envoi Of / De D or R code / Code D 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 / Importation Importation / Exportation Customs code(s) / Code(s) de douanes National code in country of / Code du pays 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 (caractère 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														
International use only														
Generator / consigneur certification : I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur : J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables. Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) Signature Tel. No. / N° de tél. 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														

Instructions on reverse
Instructions au verso
Copie / Copie 1 (white / blanc)

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

DATE 2017-08-19

NO **4759**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine NU

Address:

Telephone: Contact:

Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental

Address: 17 Cameron RD, Box 1815

Telephone: (867) 873 5263 Contact: Jeff Bembidge

Receiver Pin #: NTR000123 Manifest #:

CUSTOMER BILLING ADDRESS

Name:

Address:

Telephone: Contact:

Account #: PO #:

CARRIER/TRANSPORTER

Name: Buffalo Airways

Address: Box 2015
Yellowknife NT

Driver: Unit #:

Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>Waste Leachate - Glycol</u>	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>16</u>		<u>16 Drums</u>		

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME:

TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12495-7

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

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 1 Company name / Nom de l'entreprise Rowses / Out come Mailing address / Adresse postale City / Ville Province Postal code / Code postal Jericho Mine Site 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		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 23 Company name / Nom de l'entreprise Buffalo Airways Mailing address / Adresse postale City / Ville Province Postal code / Code postal 108 Barry St. Yellowknife NT X1A 2P3 E-mail / Courriel électronique Tel. No. / N° de tél. Vehicle / Véhicule Registration No. / N° d'immatriculation Prov. 24 Trailer - Rail car No. 1 1 ^{er} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon Port of entry Point d'entrée International use only 25 Point 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 réceptonnaire / 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): Tel. No. / N° de tél. Nom de l'agent autorisé (caractères d'imprimerie): Garry Mutchell Year / Année Month / Mois Day / Jour Signature: 17 08 19		C Receiver / consignee Réceptonnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 21 Receiver / consignee information same as in Part A Les renseignements du réceptonnaire / destinataire sont les mêmes 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 29 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 30 Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial Quantity received / Quantité reçue Units / L or / ou kg Unités 31 Comments / Commentaires 32 Handling Code / Code de manutention 33 Shipment / Envoi Accepted / Refusé / Accepté / Refusé 34 Decort. / Pack. Cont. Véh. Vêt 35 If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 36 Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptonnaire / 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 22 <input type="checkbox"/> Attached / Ci-joint: <input type="checkbox"/> As follows / Ci-contre: Date shipped / Date d'expédition 21 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	
Intended Receiver / consignee / Réceptonnaire / destinataire prévu 2 Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial KBL Environmental NTR 00123 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 City / Ville Province Postal code / Code postal 17 Cameron Rd Yellowknife NT X1A 2P4		Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Garry Mutchell Year / Année Month / Mois Day / Jour Signature: 17 08 19			
Proov. code / Code prov. 3 Shipping name / Appellation réglementaire 4 Class / Classe / Sub. class(es) / Classe(s) sub. 5 UN No. / N° NU 6 Packing / risk gr. / Gr. d'emballage / de risque 7 Quantity shipped / Quantité expédiée 8 Units / L or / ou kg Unités 9 Packaging / Container No. / N° Codes Int-ext. 9 Phys. state / Etat phys. 10 (i) NR Wasteheadate - Gylcol NR NR 3632kg 16 L (ii) (iii) (iv)		National code in country of / Code du pays 18 Customs code(s) / Code(s) de douanes 19 Notice No. / N° de notification 11 Notice Line No. / N° de ligne de la notification 12 Shipment / Envoi 13 Of / De 14 D or R code / Code D ou R 15 C code / Code C 16 Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 17 H code / Code H 18 Y code / Code Y 19 Export / Importation 20 International use only			

Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie)
 Tel. No. / N° de tél.
 Signature
 Garry Mutchell

Retained by Consignor
Gardée par l'expéditeur

Copy / Copie 2 (green / vert)

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

DATE 2017-08-18 NO **4758**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine NU
Address:

Telephone: Contact:
Generator Pin #: Manifest #: NT12494-0

CUSTOMER BILLING ADDRESS

Name:
Address:
Telephone: Contact:
Account #: PO #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
Address: 17 Cameron Rd / Box 1815

Telephone: 867 873 5263 Contact: Jeff Bembridge
Receiver Pin #: NTR00123 Manifest #:

CARRIER/TRANSPORTER

Name: Buffalo Airways
Address: Box 2015
Yellowknife NT
Driver: Unit #:
Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION				Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE			
	<u>Waste Leachate - Glycol</u>	<u>NR</u>			<u>29</u>		<u>29</u>	<u>Drums</u>
	<u>NR - Lab Pack - Pails</u>	<u>NR</u>			<u>3</u>		<u>3</u>	<u>Pails</u>

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE [Signature]

DRIVER SIGNATURE [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED Garricks

ABOVE NAME PRINTED Garry Murtzell

ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12494-0

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

A Generator / consigneur Producteur / expéditeur 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 / Courriel électronique Tel. No. / N° de tél. Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal				B Carrier Transporteur 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 / Courriel électronique Tel. No. / N° de tél. Vehicle / Véhicule Registration No. / N° d'immatriculation Prov. 24 Trailer - Rail car No. 1 1 ^{re} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon Port of entry Point d'entrée International use only Port of exit Point de sortie International use only 25 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. 26 Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature:				C Receiver / consignee 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 sont les mêmes 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 31 Registration No./Provincial ID No. N° d'immatriculation/d'id provincial			
Intended Receiver / consignee Réceptionnaire / destinataire prévu 2 Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 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 City / Ville Province Postal code / Code postal				Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature:				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 31 Registration No./Provincial ID No. N° d'immatriculation/d'id provincial			
Prov. code Code prov. 3 Shipping name Appellation réglementaire 4 Class / Classe Sub. class(es) / Classe(s) sub. 5 UN No. N° NU 6 Packing / risk Gr. d'emballage / de risque 7 Quantity shipped Quantité expédiée 8 Units L or / ou Kg Unités 9 Packaging / Contenant No. / N° Codes Int.-ext. 10 Phys. state État phys. 10				Quantity received Quantité reçue Units L or / ou kg Unités 31 Comments Commentaires 32 Handling Code / Code de manutention 33 Shipment / Envoi Accepted / Refusé 34 Decort. / Vel Cont. / Vt 34				If handling code "Other" (specify) Si code de manutention « autre » (spécifier) 3 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 (caractère d'imprimerie) Signature Tel. No. / N° de tél.			
Notice No. N° de notification Notice Line No N° de ligne de la notification Shipment Envoi Of / De D or R code Code D 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 National code in country of / Code du pays Export Import Customs code(s) Code(s) de douanes				If handling code "Other" (specify) Si code de manutention « autre » (spécifier) 3 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 (caractère 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: 22			
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.				Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie) Tel. No. / N° de tél. Signature				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			

**Retained by Consignor
Gardée par l'expéditeur**

Copy / Copie 2 (green / vert)

BILL OF LADING

KBL Environmental LTD. 1 of 2

PO Box 1108
Yellowknife, NT X1A 2N8

Flight #
DATE: 2017-08-17 NO 4756

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Min Nu

Address:

Telephone:

Contact:

Generator Pin #:

Manifest #:

CUSTOMER BILLING ADDRESS

Name:

Address:

Telephone:

Contact:

Account #:

PO #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental

Address: 17 Cameron Rd Box 1215

Telephone: (867) 873 5263

Contact: Jeff Benbridge

Receiver Pin #: NTR000123

Manifest #:

CARRIER/TRANSPORTER

Name: Buffalo Airways

Address: Box 2015
Yellowknife NT

Driver:

Unit #:

Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	Sealed Lead Acid Batt.	8		UN 8800	1			1 crate	
	Batteries filled with Acid	8		UN 2794	3			3 crate	
	Corrosive Liquids Acidic	8		UN 3764	1			x Pail	
	Adhesive	3		UN 1133	1			Drum	
	Potassium Nitrate	5.1		UN 1488	3			3 Pails	
	Clinical Waste	6.2		UN 3291	1			1 Pail	
	Hydrogen Peroxide	5.1		UN 2984	1			1 Pail	
	Hypochlorite Solution	8		UN 1791	1			1 Pail	
	Corrosive High Lab Pack	8		UN 3266	1			1 Pail	
	Hypochlorite Solution	8		UN 1791	1			1 Pail	

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME:

TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

2 of 2

Flight #
 DATE: 2017-08-17 NO 4757

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine NU
 Address:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: 17 Cameron Rd Box 1815

Telephone: Contact:
 Generator Pin #: Manifest #:

Telephone: Contact:
 Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
 Address:

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: Box 2015

Telephone: Contact:
 Account #: PO #:

Driver: Unit #:
 Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION				Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE			
	Waste Methyl Hydrate	3		UN 1230	1		1 Drum	
	Aerosols Flammable	2.1		UN 1950	18		1 Drum	
	Waste paint related material	3		UN 1263	1		1 Drum	
	Mercury	8(1)		UN 2809			1 Pail	

DG-Dangerous Goods (X-Yes) **UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:
 All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED
 Far Carricks

ABOVE NAME PRINTED

ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

30A3

NT12493-2

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

A Generator / consigneur Producteur / expéditeur		B Carrier Transporteur		C Receiver / consignee Réceptionnaire / destinataire	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés	
Company name / Nom de l'entreprise		Company name / Nom de l'entreprise		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Company name / Nom de l'entreprise	
E-mail / Courriel électronique Tel. No. / N° de tél. ()		E-mail / Courriel électronique Tel. No. / N° de tél. ()		Mailing address / Adresse postale	
Shipping site address / Adresse du lieu de l'expédition		Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{re} remorque - wagon Trailer - Rail car No. 2 2 ^{de} remorque - wagon		City / Ville Province Postal code / Code postal	
City / Ville Province Postal code / Code postal		Registration No. / N° d'immatriculation Prov. 24		E-mail / Courriel électronique Tel. No. / N° de tél. ()	
Intended Receiver / consignee Réceptionnaire / destinataire prévu		Port of entry / Point d'entrée International use only		Port of exit / Point de sortie International use only 25	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		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.		Receiving site address / Adresse du lieu de destination	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal				Year / Année Month / Mois Day / Jour Signature: <i>[Signature]</i>	
E-mail / Courriel électronique Tel. No. / N° de tél. ()				Date received / Date de réception 29 Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Receiving site address / Adresse du lieu de destination				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 30	
City / Ville Province Postal code / Code postal		Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial		Quantity received / Quantités reçues 31 Units / Unités L or / ou Kg	
Prov. code / Code prov. 3		Shipping name / Appellation réglementaire 4		Comments 32	
Class / Classe / Sub. class(es) / Classes / sub. 5		UN No. / N° NU 6		Handling Code / Code de manutention 33	
Packing / risk gr. / Gr. d'emballage / de risque 7		Quantity shipped / Quantité expédiée 8		Shipment / Envoi / Accepted / Refused / Accepté / Refusé 34	
Units / Unités L or / ou Kg 8		Packaging / Contenant / Codes Int.-ext. 9		Decom. / Vel / Cont. / Vé 35	
Phys. state / État phys. 10		National code in country of / Code du pays 18		If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 3	
Quantity received / Quantités reçues 31		Export / Importation 19		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.	
Comments 32		Customs code(s) / Code(s) de douanes		Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie)	
Handling Code / Code de manutention 33		Signature		Tel. No. / N° de tél. ()	
Shipment / Envoi / Accepted / Refused / Accepté / Refusé 34		International use only		Special handling / Manutention spéciale 22 <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre :	
Decom. / Vel / Cont. / Vé 35				Date shipped / Date d'expédition 21 Year / Année Month / Mois Day / Jour <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 3				Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
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 (caractère d'imprimerie)	
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie)		Signature		Tel. No. / N° de tél. ()	
Tel. No. / N° de tél. ()		Date shipped / Date d'expédition 21 Year / Année Month / Mois Day / Jour <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.		Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
Signature		Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie)		Tel. No. / N° de tél. ()	

Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.

Retained by Consignor
Gardée par l'expéditeur Copy / Copie 2 (green / vert)

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

DATE 2017-08-17

NO **4754**

1 of 2

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Jericho Mine NU

Address:

Telephone: Contact:

Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental

Address: 17 Cameron Rd / Box 1015

Telephone: (867) 873 5263 Contact: Jeff Bombardier

Receiver Pin #: NR000123 Manifest #:

CUSTOMER BILLING ADDRESS

Name:

Address:

Telephone: Contact:

Account #: PO #:

CARRIER/TRANSPORTER

Name: Buffalo Airways

Address: Box 2015
Yellowknife NT

Driver: Unit #:

Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	<u>Aerosols</u>	<u>2.1</u>		<u>UN1950</u>	<u>8</u> <u>07</u>		<u>3</u> <u>Drums</u>		
	<u>Oil Filters</u>	<u>3</u>		<u>UN1133</u>	<u>1</u>		<u>1</u> <u>Drum</u>		
	<u>Flourescent Bulbs - crushed</u>	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>4</u>		<u>4</u> <u>Drums</u>		
	<u>Sodium Hydroxide</u>	<u>8</u>		<u>UN1824</u>	<u>1</u>		<u>1</u> <u>Part of 10 - 10 Drums</u>		
	<u>Paint Related Material</u>	<u>3</u>		<u>UN1263</u>			<u>3</u> <u>Drums</u>		
	<u>Adhesive</u>	<u>3</u>		<u>UN1133</u>	<u>3</u>		<u>3</u> <u>Drums</u>		
	<u>Mixed Filters</u>	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>3</u>		<u>3</u> <u>Drums</u>		
	<u>Env Hazard Substance</u>	<u>9</u>		<u>UN3082</u>	<u>1</u>		<u>1</u> <u>Drum</u>		
	<u>Non Reg Lab Pack - liquid</u>	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>1</u>		<u>1</u> <u>Drum</u>		
	<u>Non Reg Lab Pack - liquid/solids</u>	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>1</u>		<u>1</u> <u>Drum</u>		

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME: TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE [Signature]

DRIVER SIGNATURE [Signature]

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED Garricks

ABOVE NAME PRINTED Carry Murtzell

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

BILL OF LADING

KBL Environmental LTD.

PO Box 1108
Yellowknife, NT X1A 2N8

2022

DATE NO

4755

CONSIGNOR/CUSTOMER SITE ADDRESS

Name:
Address:

Telephone: Contact:
Generator Pin #: Manifest #:

CONSIGNEE/RECEIVER SITE ADDRESS

Name:
Address:

Telephone: Contact:
Receiver Pin #: Manifest #:

CUSTOMER BILLING ADDRESS

Name:
Address:

Telephone: Contact:
Account #: PO #:

CARRIER/TRANSPORTER

Name:
Address:

Driver: Unit #:
Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO. CODE				
	Corrosive Liquid Acidic	8		UN 3264			1	Pail	
	Corrosive Liquid Basic	8		UN 3662			1	Drum	
	Alkaline Batteries	NR	NR	NR			1	Drum	
	Non Reg. hds Pack-Solid	NR	NR	NR			1	Drum	
	Non Reg. hds Pack-Liquid	RR	NR	NR			1	Drum	
	Sealed Lead Acid Batteries	8		UN 2800			1	crate	
	Flammable Liquid N.O.S.	3		UN 1993			1	Drum	

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME:

TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

DRIVER SIGNATURE

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

Garricks

ABOVE NAME PRINTED

Garry Martzell

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12487-4

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

1 of 3

A Generator / consigneur Producteur / expéditeur		B Carrier Transporteur		C Receiver / consignee Réceptionnaire / destinataire	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés	
Company name / Nom de l'entreprise <i>Rouge Outcome</i>		Company name / Nom de l'entreprise <i>Buffalo Airways</i>		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Company name / Nom de l'entreprise	
E-mail / Courriel électronique Tel. No. / N° de tél.		E-mail / Courriel électronique Tel. No. / N° de tél.		Mailing address / Adresse postale	
Shipping site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal		Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{er} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon		City / Ville Province Postal code / Code postal	
Intended Receiver / consignee Réceptionnaire / destinataire prévu		Port of entry Point d'entrée		E-mail / Courriel électronique Tel. No. / N° de tél.	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Port of exit Point de sortie		Receiving site address / Adresse du lieu de destination Year / Année Month / Mois Day / Jour Time / Heure	
E-mail / Courriel électronique Tel. No. / N° de tél.		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.		Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure	
Receiving site address / Adresse du lieu de destination City / Ville Province Postal code / Code postal		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie):		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	
Year / Année Month / Mois Day / Jour		Signature:		Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Quantity received / Quantité reçue	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Units L or / ou kg	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Comments / Commentaires	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Handling Code / Code de manutention	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Shipment / Envoi	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Accepted / Refusé	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Decont. / Veh. Cont. / Véh.	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		If handling code "Other" (specify) Si code de manutention « autre » (spécifier)	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		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.	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Signature	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Tel. No. / N° de tél.	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre:	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Year / Année Month / Mois Day / Jour		Signature: <i>17 08 17 x GAIL MITCHELL</i>		Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	

Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.

Name of authorized person (print)
Nom de l'agent autorisé (caractère d'imprimerie)
GARRICKS, R. L.
Signature
[Signature]

**Retained by Consignor
Gardée par l'expéditeur**

Copy / Copie 2 (green / verte)

BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE Aug 13, 2017

NO **4753**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Rowes / Outcome
 Address: Jericho Mine Site
 Telephone: _____ Contact: _____
 Generator Pin #: _____ Manifest #: _____

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental
 Address: 17 Cameron Rd
Po Box 1895 Yellowknife, NT (X1A 2P4)
 Telephone: (867)-873-5263 Contact: Jeff Benbridge
 Receiver Pin #: NTR000123 Manifest #: _____

CUSTOMER BILLING ADDRESS

Name: _____
 Address: _____
 Telephone: _____ Contact: _____
 Account #: _____ PO #: _____

CARRIER/TRANSPORTER

Name: Buffalo Airways
 Address: 108 Berry St. (X1A 2R3)
 Yellowknife NT
 Driver: _____ Unit #: _____
 Carrier Pin #: _____

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE # CANUTEC (613) 996-6666 **PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)**
 Yes No Number Required _____ Type _____

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION						EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING		Ü		
					NO.	CODE	M		
*	Sodium Hydroxide, Solid	8	UN1829	II	3	07		22 Boxes	
*	Nitric Acid	8	UN203	II	1	07		35 kids	
*	Oxidizing Solid N.O.S (Zachlor)	5.1	UN2465	II	1	07		15 Boxes	
*	Corrosive Liquid, Acidic, Inorganic	8	UN3204	III	3	07		15 kid	
	Alkaline Household Batteries	NIR	NIR	NIR	7	07		1 Pail	
*	Sodium Hydroxide, Solution	8	UN1824	II	4	07		3 Pails	
								7 Pails	
								4 Pails	

DG-Dangerous Goods (X-Yes)

TECHNICIAN TIME: _____

TRANSPORT TIME: _____

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

General Terms and Conditions:
 All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE
Coleman Sudler

DRIVER SIGNATURE
Adam Kern

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED
 Coleman Sudler

ABOVE NAME PRINTED
 Adam Kern

ABOVE NAME PRINTED

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12486-6

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

A Generator / consigneur Producteur / expéditeur			B Carrier Transporteur			C Receiver / consignee Réceptionnaire / destinataire		
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial			Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial			Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés		
Company name / Nom de l'entreprise Rowes/Outcome			Company name / Nom de l'entreprise Buffalo Airways			Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous		
Mailing address / Adresse postale City / Ville Province Postal code / Code postal ()			Mailing address / Adresse postale City / Ville Province Postal code / Code postal 108 Berry St. Yellowknife NT X1A 2R3			Receiving site address / Adresse du lieu de destination ()		
E-mail / Courrier électronique Tel. No. / N° de tél. ()			E-mail / Courrier électronique Tel. No. / N° de tél. ()			Company name / Nom de l'entreprise		
Shipping site address / Adresse du lieu de l'expédition Jericho Mine Site			Vehicle / Véhicule Registration No. / N° d'immatriculation Prov.			Mailing address / Adresse postale		
City / Ville Province Postal code / Code postal			Trailer - Rail car No. 1 1 ^{re} remorque - wagon			City / Ville Province Postal code / Code postal		
Intended Receiver / consignee Réceptionnaire / destinataire prévu			Port of entry Point d'entrée International use only			Port of exit Point de sortie International use only		
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial			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 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.		
Mailing address / Adresse postale City / Ville Province Postal code / Code postal KBL Environmental Yellowknife NT X1A 2P4			Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie):			Tel. No. / N° de tél. ()		
E-mail / Courrier électronique Tel. No. / N° de tél. ()			Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie):			Tel. No. / N° de tél. ()		
Receiving site address / Adresse du lieu de destination 17 Cameron Rd. Yellowknife NT X1A 2P4			Year / Année Month / Mois Day / Jour Signature 17 08 13 X [Signature]			Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.		
Year / Année Month / Mois Day / Jour Signature			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, préciser le nom du 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		
Class / Classe Sub. class(es) / Classe(s) sub. UN No. / N° NU Packing / risk gr. / Gr. d'emballage/ de risque Quantity shipped / Quantité expédiée Units / L or / ou Kg / Unités Packaging/Contenant No. / N° Codes int-ext. Phys. state / État phys.			Class / Classe Sub. class(es) / Classe(s) sub. UN No. / N° NU Packing / risk gr. / Gr. d'emballage/ de risque Quantity shipped / Quantité expédiée Units / L or / ou Kg / Unités Packaging/Contenant No. / N° Codes int-ext. Phys. state / État phys.			Quantity received / Quantité reçue Units / L or / ou kg / Unités Comments / Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Refused / Accepté / Refusé Decont. / Veh. / Cont. / Veh.		
(i) JN 3264 Corrosive Liquid, Acidic, Inorganic 8 3264 III 26 Kg 3 07 L			(i) JN 3264 Corrosive Liquid, Acidic, Inorganic 8 3264 III 26 Kg 3 07 L			(i) JN 3264 Corrosive Liquid, Acidic, Inorganic 8 3264 III 26 Kg 3 07 L		
(ii)			(ii)			(ii)		
(iii)			(iii)			(iii)		
(iv)			(iv)			(iv)		
Notice No. / N° de notification			Notice Line No. / N° de ligne de la notification			National code in country of / Code du pays		
Shipment / Envoi			D or R code / Code D ou R			Customs code(s) / Code(s) de douanes		
Of / De			C code / Code C			Export / Importation		
Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE			H code / Code H			Y code / Code Y		
(i)			(i)			(i)		
(ii)			(ii)			(ii)		
(iii)			(iii)			(iii)		
(iv)			(iv)			(iv)		
International use only						If handling code "Other" (specify) Si code de manutention « autre » (spécifier)		
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)		
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.						Signature Coleman Sader		
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						Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre		

Instructions on reverse
Instructions au verso

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BILL OF LADING

KBL Environmental LTD.
 PO Box 1108
 Yellowknife, NT X1A 2N8

DATE August 4th, 2017

NO **4752**

CONSIGNOR/CUSTOMER SITE ADDRESS

Name: Rowes (Jericho Mine Site)

Address:

Telephone: Contact:

Generator Pin #: Manifest #: N/A

CONSIGNEE/RECEIVER SITE ADDRESS

Name: KBL Environmental

Address: 17 Cameron Rd
 P.O. Box 1895 Yellowknife, NT (X1A 2P4)

Telephone: (867)-873-5263 Contact: Jeff Benbridge

Receiver Pin #: NTR000123 Manifest #: N/A

CUSTOMER BILLING ADDRESS

Name: Same AS Above

Address:

Telephone: Contact:

Account #: PO #:

CARRIER/TRANSPORTER

Name: Buffalo Airways

Address:

Driver: Unit #:

Carrier Pin #:

DANGEROUS GOODS INFO. 24 HOUR EMERGENCY PHONE #
 CANUTEC (613) 996-6666

PLACARDS REQUIRED BY CARRIER (PER T.D.G REGULATIONS)
 Yes No Number Required Type

D G	SHIPPING NAME/ DESCRIPTION	T.D.G INFORMATION					Ü M	EXPECTED QUANTITY	ACTUAL QUANTITY
		CLASS	P.I.N.	PACKING GROUP	PACKAGING NO.	PACKAGING CODE			
	<u>Non Regulated ^{Solid} Waste - Polymer</u>	<u>NIR</u>	<u>NIR</u>	<u>NIR</u>	<u>10</u>	<u>07</u>		<u>10 SKIDS</u>	
	<u>" "</u>	<u>NIR</u>	<u>NIR</u>	<u>NIR</u>	<u>2</u>	<u>05</u>		<u>2 SKIDS</u>	
								<u>~ 22,000 lbs.</u>	

DG-Dangerous Goods (X-Yes)

**UM-Unit of Measure (L-Litre, K-Kilogram, E-Each)

TECHNICIAN TIME:

TRANSPORT TIME:

General Terms and Conditions:

All wastes must meet the specifications as described on the Customer's Bill of Lading sheet. Wastes that do not meet the profile are subject to rejection at the Receiver site or conditional acceptance at a higher price. Customer acknowledges and accepts these conditions by signing below. Customer agrees to indemnify and save harmless KBL from any and all claims, penalties, forfeitures, and expenses incident thereto, which it may incur as a result of death, bodily injuries to any person, destruction or damage to any property, contamination or any adverse effects on the environment, violation of laws, regulations, or orders, caused in whole or in part by the Customer failure to provide waste which meets the specifications as described on this Bill of Lading.

CONSIGNOR SIGNATURE

Paul Dawkins

DRIVER SIGNATURE

CONSIGNEE SIGNATURE

ABOVE NAME PRINTED

ABOVE NAME PRINTED

ABOVE NAME PRINTED

White - Customer

Canary - File

Pink - Receiver

Goldenrod - Carrier

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifèste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12484-1

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

A Generator / consigneur Producteur / expéditeur		B Carrier Transporteur		C Receiver / consignee Réceptionnaire / destinataire	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifèstes utilisés	
Company name / Nom de l'entreprise		Company name / Nom de l'entreprise Buffalo Air ways		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal		Mailing address / Adresse postale City / Ville Province Postal code / Code postal 108 Berry St. Yellowknife NT X1A 2R3		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
E-mail / Courrier électronique Tel. No. / N° de tél. ()		E-mail / Courrier électronique Tel. No. / N° de tél. (867) 873-6112		Company name / Nom de l'entreprise	
Shipping site address / Adresse du lieu de l'expédition Jericho Mine Site		Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{er} remorque - wagon		Mailing address / Adresse postale	
City / Ville Province Postal code / Code postal		Registration No. / N° d'immatriculation Prov. 24		City / Ville Province Postal code / Code postal	
Intended Receiver / consignee Réceptionnaire / destinataire prévu NBLE Environmental		Port of entry Point d'entrée International use only		E-mail / Courrier électronique Tel. No. / N° de tél. ()	
Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial NTR000123		Port of exit Point de sortie International use only		Receiving site address / Adresse du lieu de destination	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal PO Box 1895 Yellowknife NT X1A 2R4		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.		Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
E-mail / Courrier électronique Tel. No. / N° de tél. (867) 873-5267		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): X Jamie Christolm		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	
Receiving site address / Adresse du lieu de destination 17 Cameron Rd.		Signature: X Jamie Christolm		Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial	
City / Ville Province Postal code / Code postal Yellowknife NT X1A 2R4		Year / Année Month / Mois Day / Jour 1 7 0 8 1 0		Quantity received Quantité reçue	
Prov. code Code prov.		Shipping name Appellation réglementaire		Units L or / ou kg Unités	
Class / Classe Sub. class(es) Class(es) sub.		UN No. N° NU		Comments Commentaires	
Packing / risk gr. Gr. d'emballage / de risque		Quantity shipped Quantité expédiée		Handling Code / Code de manutention	
UN 1824 Sodium Hydroxide (>30%)		160 L 8 01 L		Shipment / Envoi Accepted / Refusé	
UN 1789 Hydrochloric Acid (>30%)		84 L 3 01 L		Decort. Pack. Veh.	
UN					
UN					
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		If handling code "Other" (specify) Si code de manutention « autre » (spécifier)	
Shipment Envoi		Of / De		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.	
D or R code Code D ou R		C code Code C		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)	
Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE		H code Code H		Signature	
Y code Code Y		Export Exportation		Tel. No. / N° de tél. ()	
Import Importation		Customs code(s) Code(s) de douanes		Special handling / Manutention spéciale <input type="checkbox"/> Attached / C-joint: <input type="checkbox"/> As follows / C-contre:	
National code in country of / Code du pays		19		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
International use only				Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie) JR		Tel. No. / N° de tél. 867 675 3811	
		Signature		21	

Instructions on reverse
Instructions au verso

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MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement.

NT12484-1

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

A Generator / consigneur Producteur / expéditeur		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		B Carrier Transporteur		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés													
Company name / Nom de l'entreprise				Company name / Nom de l'entreprise Buffalo Air ways				C Receiver / consignee Réceptionnaire / destinataire		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial											
Mailing address / Adresse postale		City / Ville	Province	Postal code / Code postal		Mailing address / Adresse postale		City / Ville		Province	Postal code / Code postal										
E-mail / Courrier électronique		Tel. No. / N° de tél.		E-mail / Courrier électronique		Tel. No. / N° de tél.		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A													
Shipping site address / Adresse du lieu de l'expédition		City / Ville		Province		Postal code / Code postal		<input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous													
Intended Receiver / consignee Réceptionnaire / destinataire prévu		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Vehicle / Véhicule		Registration No. / N° d'immatriculation		Prov. 24													
Mailing address / Adresse postale		City / Ville	Province	Postal code / Code postal		Port of entry Point d'entrée		Port of exit Point de sortie													
E-mail / Courrier électronique		Tel. No. / N° de tél.		E-mail / Courrier électronique		Tel. No. / N° de tél.		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.													
Receiving site address / Adresse du lieu de destination		City / Ville		Province		Postal code / Code postal		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie):													
Prov. code Code prov.		Shipping name Appellation réglementaire		Class / Classe Sub. class(es) Class(es) sub.		UN No. N° NU		Packing / risk gr. Gr. d'emballage/ de risque		Quantity shipped Quantité expédiée		Units L or / ou Kg Unités		Packaging/Contenant No. / N°		Codes Int - ext		Phys. state Etat phys.			
Year / Année		Month / Mois		Day / Jour		Signature:		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	
UN 1824 Sodium Hydroxide (>30L)		8		1824		III		1		L		8		01		L					
UN 1789 Hydrochloric Acid (>30L)		8		1789		III		2		L		3		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 D 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		National code in country of / Code du pays		19	
Export Exportation		Import Importation		Customs code(s) Code(s) de douanes		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 (caractère d'imprimerie)		Signature		Tel. No. / N° de tél.		Special handling / Manutention spéciale		22			
Date shipped / Date d'expédition		Time / Heure		Scheduled arrival date / Date d'arrivée prévue		<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		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)		Signature		Tel. No. / N° de tél.			
Date shipped / Date d'expédition		Time / Heure		Scheduled arrival date / Date d'arrivée prévue		<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		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimerie)		Signature		Tel. No. / N° de tél.			

Retained by Consignor
Gardée par l'expéditeur

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Date	November 2018
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APPENDIX H

Water Quality Monitoring Records

- Surface Water Sample Summary
- Laboratory Certificate of Analyses

Date	November 2018
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- Surface Water Sample Summary

SURFACE WATER SAMPLES - LAB RESULTS

Parameter	CCME - PFAL Short Term	CCME - PFAL Long Term	2017 Letter of Decision Maximum Allowable Concentration	Units	Jun2017 West Dam	Jun2017 Phase 1	Jun2017 Contwoyto	Jun2017 Pit	Jun2017 Dyke A	ALS LDL	Units2	Sep2017 Open Pit	ALS LDL2	Units3	Aug2018 Pit-1	Aug2018 Pit-2 (Blind DUP of Pit-1)	Maxxam RDL	Units4	Aug2018-2 Open Pit	ALS LDL3	Units5
pH	6.5- 9.0		6- 8.8	(pH units)	7.48	7.36	6.01	7.47	7.85	0.1	pH	7.93	0.1	pH				pH	7.89	0.1	pH
Total Suspended Solids (TSS)	Max increase of +25 mg/L from Background for short-term exposure		25.	mg/L	<3.	<3.	<3.	<3.	6.9	3	mg/L	<3.	3	mg/L			14	mg/L	<3.	3	mg/L
Total Dissolved Solids (TDS)			4,000.	mg/L	82.	44.	<10.	68.	129.	10	mg/L	96.	10	mg/L			10	mg/L	107.	13	mg/L
Chloride - Cl	120	no data	1,000.	mg/L	2.58	<0.5	<0.5	0.82	2.45	0.5	mg/L	4.95	0.5	mg/L			1	mg/L	4.52	0.5	mg/L
NH3-N	0.41 to 39.72		12.	mg/L	<0.05	0.059	0.111	<0.05	<0.05	0.05	mg/L	<0.05	0.05	mg/L			0.05	mg/L	0.009	0.005	mg/L
T-NO3-N	550	13	56.	mg/L	0.071	<0.02	<0.02	1.11	1.19	0.02	mg/L	5.87	0.02	mg/L			0.5	mg/L	5.21	0.005	mg/L
T-NO2-N			5.	mg/L													0.05	mg/L	0.0148	0.001	mg/L
Fecal Coliforms			20.	mg/L	<1.	<1.	<1.	<1.	<1.	1	MPN/		1	MPN/					1.	1	MPN/
Total (T) - Al	no data	0.1	3.	mg/L	0.0144	0.0224	0.0095	0.185	0.0584	0.003	mg/L	0.0279	0.003	mg/L			0.005	mg/L*	0.0768	0.003	mg/L
T-As	no data	0.005	0.1	mg/L	<0.0001	0.00132	0.0001	0.00078	0.0002	0.0001	mg/L	0.00052	0.0001	mg/L			0.001	mg/L*	0.00053	0.0001	mg/L
T-Cd	0.001	0.00009	0.0024	mg/L	<0.000005	0.000073	<0.000005	<0.000005	<0.000005	0.000005	mg/L	<0.000005	0.000005	mg/L			0.0001	mg/L*	<0.000005	0.000005	mg/L
T-Cr			0.17	mg/L	0.00019	0.00021	<0.0013	0.00044	0.00183	0.0001	mg/L	<0.0001	0.0001	mg/L			0.005	mg/L*	0.00031	0.0001	mg/L
T-Cu	no data	0.002 to 0.004 in relation to hardness of water	0.04	mg/L	0.00139	0.0126	<0.0005	0.00974	0.00107	0.0005	mg/L	0.0021	0.0005	mg/L			0.001	mg/L*	0.00315	0.0005	mg/L
T-Pb	no data	0.001 to 0.007 in relation to hardness of water	0.02	mg/L	<0.00005	0.000239	<0.00005	0.000504	0.000081	0.00005	mg/L	<0.00005	0.00005	mg/L			0.0005	mg/L*	0.000114	0.00005	mg/L
T-Mo	no data	0.073	1.5	mg/L	0.00122	0.000256	<0.00005	0.00226	0.00653	0.00005	mg/L	0.00502	0.00005	mg/L			0.0005	mg/L*	0.005	0.00005	mg/L
T-Ni	no data	0.025 to 0.150 in relation to harness of water	0.1	mg/L	0.00108	0.00377	<0.00005	0.00146	0.0135	0.0005	mg/L	0.00097	0.0005	mg/L			0.001	mg/L*	0.00212	0.0005	mg/L
T-U	0.033	0.015	1.	mg/L	0.00253	0.000189	0.000011	0.0349	0.000965	0.00001	mg/L	0.094	0.00001	mg/L	0.075	0.074	0.0001	mg/L*	0.0687	0.00001	mg/L
T-P		0.004	0.4	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	mg/L	<0.05	0.05	mg/L			0.1	mg/L	<0.05	0.05	mg/L
T-Zn	no data	0.03	0.5	mg/L	<0.003	0.0067	<0.003	<0.003	<0.003	0.003	mg/L	<0.003	0.003	mg/L			0.005	mg/L	<0.003	0.003	mg/L
Dissolved (D)-Al			2.	mg/L	0.0058	0.0158	0.0077	0.0228	0.0037	0.001	mg/L	0.0266	0.001	mg/L							
Biological Oxygen Demand (5 days) BOD5			25.	mg/L	<2.	3.	<2.	<2.	<2.								2	mg/L	<2.	2	mg/L
Oil and Grease			5.	mg/L	<1.	2.9	<1.	<1.	<1.	1	mg/L	<5.	1	mg/L			0.5	mg/L	<5.	5	mg/L
Benzene		0.37	0.37	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	mg/L		0.0005	mg/L			0.0002	mg/L*	<0.0005	0.0005	mg/L
Ethylbenzene		0.09	0.09	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	mg/L		0.0005	mg/L			0.0002	mg/L*	<0.0005	0.0005	mg/L
Toluene		0.002	0.002	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	mg/L		0.0005	mg/L			0.0002	mg/L*	<0.00045	0.00045	mg/L
F1 (C6-C10)			9.8	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	mg/L		0.1	mg/L			0.025	mg/L*	<0.1	0.1	mg/L
Total Extractable Hydrocarbons			6.	mg/L	<0.38	1.42	<0.38	<0.38	<0.38	0.38	mg/L		0.38	mg/L			0.2	mg/L*	<0.25	0.25	mg/L
F1-BTEX			9.8	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	mg/L		0.1	mg/L			0.025	mg/L*	<0.1	0.1	mg/L
F2 (>C10-C16)			1.3	mg/L	<0.1	0.27	<0.1	<0.1	<0.1	0.1	mg/L	<0.1	0.1	mg/L			0.1	mg/L*	<0.3	0.3	mg/L

Units converted to match 'Maximum Allowable Concentration units'

Exceeds 'Maximum Allowable Concentration' listed in 2017 Letter of Decision (values carried over from original Jericho Water License).

Date	November 2018
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- Laboratory Certificate of Analyses



Cash Clients
ATTN: Henry Wong
DXB Projects
Toronto ON L4N3Y3

Date Received: 09-JUN-17
Report Date: 26-JUN-17 15:57 (MT)
Version: FINAL

Client Phone: 416-575-8064

Certificate of Analysis

Lab Work Order #: L1939807
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Comments:

Rick Zolkiewski
General Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 314 Old Airport Road, Unit 116, Yellowknife, NT X1A 3T3 Canada | Phone: +1 867 873 5593 |
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1939807-1	L1939807-2	L1939807-3	L1939807-4	L1939807-5
					L1939807-1 Water 08-JUN-17 17:30 CONTWOYTO	L1939807-2 Water 08-JUN-17 23:00 PIT	L1939807-3 Water 09-JUN-17 10:00 WEST DAM	L1939807-4 Water 09-JUN-17 11:00 PHASE 1	L1939807-5 Water 09-JUN-17 11:30 DYKE A
Grouping	Analyte								
WATER									
Physical Tests	pH (pH)	6.01	7.47	7.48	7.36	7.85			
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	6.9			
	Total Dissolved Solids (mg/L)	<10	68	82	44	129			
Anions and Nutrients	Ammonia, Total (as N) (mg/L)	0.111	<0.050	<0.050	0.059	<0.050			
	Chloride (Cl) (mg/L)	<0.50	0.82	2.58	<0.50	2.45			
	Nitrate (as N) (mg/L)	<0.020	1.11	0.071	<0.020	1.19			
Bacteriological Tests	MPN-Fecal Coliform (MPN/100mL)	<1 ^{HTA}	<1 ^{HTA}	<1	<1	<1			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0095	0.185	0.0144	0.0224	0.0584			
	Antimony (Sb)-Total (mg/L)	0.00021	0.00013	<0.00010	<0.00010	0.00012			
	Arsenic (As)-Total (mg/L)	0.00010	0.00078	0.00023	0.00132	0.00020			
	Barium (Ba)-Total (mg/L)	0.000967	0.0290	0.0170	0.00232	0.0582			
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
	Bismuth (Bi)-Total (mg/L)	0.000063	<0.000050	<0.000050	<0.000050	<0.000050			
	Boron (B)-Total (mg/L)	<0.010	0.014	0.015	<0.010	0.020			
	Cadmium (Cd)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	0.0000730	<0.0000050			
	Calcium (Ca)-Total (mg/L)	0.389	12.4	9.72	3.62	11.0			
	Cesium (Cs)-Total (mg/L)	<0.000010	0.000074	0.000028	<0.000010	0.000070			
	Chromium (Cr)-Total (mg/L)	<0.0013 ^{DLB}	0.00044	0.00019	0.00021	0.00183			
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00015	<0.00010	0.00042	0.00043			
	Copper (Cu)-Total (mg/L)	<0.00050	0.00974	0.00139	0.0126	0.00107			
	Iron (Fe)-Total (mg/L)	<0.010	0.189	0.056	0.169	0.157			
	Lead (Pb)-Total (mg/L)	<0.000050	0.000504	<0.000050	0.000239	0.000081			
	Lithium (Li)-Total (mg/L)	<0.0010	0.0021	<0.0010	<0.0010	<0.0010			
	Magnesium (Mg)-Total (mg/L)	0.185	6.10	6.96	1.49	14.6			
	Manganese (Mn)-Total (mg/L)	0.00070	0.00573	0.0317	0.129	0.00629			
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.00226	0.00122	0.000256	0.00653			
	Nickel (Ni)-Total (mg/L)	<0.00050	0.00146	0.00108	0.00377	0.0135			
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Potassium (K)-Total (mg/L)	0.134	2.13	4.07	0.914	7.39			
	Rubidium (Rb)-Total (mg/L)	0.00037	0.00230	0.00797	0.00205	0.0191			
	Selenium (Se)-Total (mg/L)	<0.000050	0.000285	0.000056	0.000067	0.000325			
	Silicon (Si)-Total (mg/L)	<0.10	2.95	0.41	1.61	1.70			
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	0.000021	<0.000010			
	Sodium (Na)-Total (mg/L)	0.211	1.73	4.67	0.659	7.75			
	Strontium (Sr)-Total (mg/L)	0.00208	0.0624	0.159	0.0169	0.257			
	Sulfur (S)-Total (mg/L)	<0.50	1.42	3.31	<0.50	8.94			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1939807-1	L1939807-2	L1939807-3	L1939807-4	L1939807-5
					Water	Water	Water	Water	Water
		08-JUN-17	17:30	CONTWOYTO	08-JUN-17	08-JUN-17	09-JUN-17	09-JUN-17	09-JUN-17
					23:00	PIT	10:00	11:00	11:30
							WEST DAM	PHASE 1	DYKE A
Grouping	Analyte								
WATER									
Total Metals	Tellurium (Te)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000016
	Thorium (Th)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.00030	0.00599	<0.00030	0.00057	0.00314			
	Tungsten (W)-Total (mg/L)	<0.00010	0.00014	<0.00010	<0.00010	0.00118			
	Uranium (U)-Total (mg/L)	0.000011	0.0349	0.00253	0.000189	0.000965			
	Vanadium (V)-Total (mg/L)	<0.00050	0.00297	<0.00050	<0.00050	<0.00050			
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030	<0.0030	0.0067	<0.0030			
	Zirconium (Zr)-Total (mg/L)	<0.000060	0.000275	<0.000060	0.000145	0.000061			
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	LAB	FIELD			
	Aluminum (Al)-Dissolved (mg/L)	0.0077	0.0228	0.0058	0.0158	0.0037			
Aggregate Organics	Biochemical Oxygen Demand (mg/L)	<2.0	<2.0	<2.0	3.0	<2.0			
	Oil and Grease (mg/L)	<1.0	<1.0	<1.0	2.9	<1.0			
Volatile Organic Compounds	Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	EthylBenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	Toluene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	o-Xylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	m+p-Xylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	Xylenes (mg/L)	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071			
	F1(C6-C10) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10			
	F1-BTEX (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10			
	Surrogate: 4-Bromofluorobenzene (SS) (%)	92.4	88.2	89.2	89.8	91.0			
	Surrogate: 3,4-Dichlorotoluene (SS) (%)	97.0	97.1	97.1	99.9	99.3			
	Surrogate: 1,4-Difluorobenzene (SS) (%)	95.5	96.6	96.2	95.6	95.3			
Hydrocarbons	F2 (>C10-C16) (mg/L)	<0.10	<0.10	<0.10	0.27	<0.10			
	F3 (C16-C34) (mg/L)	<0.25	<0.25	<0.25	1.15	<0.25			
	F4 (C34-C50) (mg/L)	<0.25	<0.25	<0.25	<0.25	<0.25			
	TPH (C6-C50) (mg/L)	<0.38	<0.38	<0.38	1.42	<0.38			
	Surrogate: 2-Bromobenzotrifluoride (%)	96.6	92.5	92.2	94.2	88.0			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

Qualifiers for Individual Samples Listed:

Sample Number	Client Sample ID	Qualifier	Description
L1939807-1	CONTWOYTO	EHR	Exceeded Recommended Holding Time prior to receipt at the lab. - BOD and Fecal coliforms
L1939807-2	PIT	EHR	Exceeded Recommended Holding Time prior to receipt at the lab. - BOD and Fecal coliforms

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Chloride (Cl)	MS-B	L1939807-1, -2, -3, -4, -5
Matrix Spike	Barium (Ba)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Calcium (Ca)-Total	MS-B	L1939807-1
Matrix Spike	Calcium (Ca)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1939807-1
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Manganese (Mn)-Total	MS-B	L1939807-1
Matrix Spike	Potassium (K)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Sodium (Na)-Total	MS-B	L1939807-1
Matrix Spike	Sodium (Na)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Strontium (Sr)-Total	MS-B	L1939807-1
Matrix Spike	Strontium (Sr)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Sulfur (S)-Total	MS-B	L1939807-2, -3, -4, -5
Matrix Spike	Uranium (U)-Total	MS-B	L1939807-2, -3, -4, -5

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLB	Detection Limit Raised. Analyte detected at comparable level in Method Blank.
HTA	Analytical holding time was exceeded.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BOD5-TG	Water	Biochemical Oxygen Demand- 5 day (TAIGA)	SM5210B
BTXS,F1-ED	Water	BTEX, Styrene and F1 (C6-C10)	EPA 5021/8015&8260 GC-MS & FID
CL-IC-N-ED	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
F2,F3,F4-ED	Water	F2, F3, F4	EPA 3510/CCME PHC CWS-GC-FID
Water samples are spiked with 2-BBTF surrogate, and extracted by reciprocal action shaker for 30 minutes using a single micro-extraction with 2 mL hexane. After extraction, hexane extracts are dispensed into GC vials for GC-FID analysis.			
FCOLI-MPN-YL	Water	Thermotolerant (Fecal) Coliforms	APHA 9223B, 2004 Enzyme Substrate Method
Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal Coliform (Thermotolerant) bacteria are determined by mixing sample with a mixture of hydrolyzable substrates and then sealing in a multi-well packet. The packet is incubated for 18-24 hours and the number of wells exhibiting a positive response are counted. The final result is obtained by comparing the positive responses to a probability table.			
MET-D-CCMS-ED	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020A (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-CCMS-ED	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-COL-ED	Water	Ammonia in Water by Colour	APHA 4500 NH3-NITROGEN (AMMONIA)
This analysis is carried out using procedures adapted from APHA Method 4500 NH3 "NITROGEN (AMMONIA)". Ammonia is determined using the automated phenate colourimetric method.			
NO3-IC-N-ED	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Reference Information

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

OGG-LLE-GRAV-ED Water O&G by Hex/MTBE extraction, gravimetric APHA 5520 B HEXANE MTBE EXT. GRAVIME

This technique employs a hexane/methyl-tert-butyl ether extraction of water, followed by filtration of the solvent into an evaporation container. The solvent is evaporated in a pre-weighed dish and the oil and grease content is calculated from the weight of material remaining.

PH-ED Water pH APHA 4500 H-Electrode

All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)

SOLIDS-TDS-ED Water Total Dissolved Solids APHA 2540 C

Gravimetric determination of solids in waters by filtration and evaporating filtrate to dryness at 180 degrees Celsius.

SOLIDS-TOTSUS-ED Water Total Suspended Solids APHA 2540 D-Gravimetric

Gravimetric determination of solids in waters by filtration and drying filter at 104 degrees Celsius.

TPH(C6-C50)-CALC-ED Water Total Petroleum Hydrocarbons (C6-C50) CCME CWS-PHC, Pub #1310, Dec 2001

TPH (C6-C50) is determined as the sum of CCME F1, F2, F3 and F4. The CCME F2-F4 test includes an in-situ silica gel cleanup to remove polar organic constituents that are not representative of petroleum hydrocarbons. Even after silica gel cleanup, some non-petroleum source hydrocarbons may be detected by this test.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA
TG	TAIGA ENVIRONMENTAL LABORATORY (INAC)
YL	ALS ENVIRONMENTAL -YELLOWKNIFE, NORTHWEST TERRITORIES CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 1 of 11

Client: Cash Clients
 DXB Projects
 Toronto ON L4N3Y3
 Contact: Henry Wong

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTXS,F1-ED		Water						
Batch	R3746784							
WG2546440-2	LCS							
Benzene			104.6		%		70-130	15-JUN-17
Toluene			98.9		%		70-130	15-JUN-17
EthylBenzene			99.96		%		70-130	15-JUN-17
m+p-Xylene			94.2		%		70-130	15-JUN-17
o-Xylene			105.6		%		70-130	15-JUN-17
WG2546440-3	LCS							
F1(C6-C10)			78.7		%		70-130	15-JUN-17
WG2546440-1	MB							
Benzene			<0.00050		mg/L		0.0005	15-JUN-17
Toluene			<0.00050		mg/L		0.0005	15-JUN-17
EthylBenzene			<0.00050		mg/L		0.0005	15-JUN-17
m+p-Xylene			<0.00050		mg/L		0.0005	15-JUN-17
o-Xylene			<0.00050		mg/L		0.0005	15-JUN-17
F1(C6-C10)			<0.10		mg/L		0.1	15-JUN-17
Surrogate: 1,4-Difluorobenzene (SS)			95.5		%		70-130	15-JUN-17
Surrogate: 4-Bromofluorobenzene (SS)			90.9		%		70-130	15-JUN-17
Surrogate: 3,4-Dichlorotoluene (SS)			101.9		%		70-130	15-JUN-17
CL-IC-N-ED		Water						
Batch	R3744347							
WG2545901-2	LCS							
Chloride (Cl)			98.5		%		90-110	10-JUN-17
WG2545901-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	10-JUN-17
F2,F3,F4-ED		Water						
Batch	R3746791							
WG2546279-2	LCS	DIESEL / MOTOR OIL						
F2 (>C10-C16)			92.9		%		70-130	12-JUN-17
F3 (C16-C34)			97.5		%		70-130	12-JUN-17
F4 (C34-C50)			94.5		%		70-130	12-JUN-17
WG2546279-1	MB							
F2 (>C10-C16)			<0.10		mg/L		0.1	12-JUN-17
F3 (C16-C34)			<0.25		mg/L		0.25	12-JUN-17
F4 (C34-C50)			<0.25		mg/L		0.25	12-JUN-17
Surrogate: 2-Bromobenzotrifluoride			94.7		%		60-140	12-JUN-17
FCOLI-MPN-YL		Water						



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 2 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
FCOLI-MPN-YL								
Water								
Batch	R3746369							
WG2547296-2	DUP	L1939807-4						
MPN-Fecal Coliform		<1	<1	RPD-NA	MPN/100mL	N/A	65	10-JUN-17
WG2547296-1	MB							
MPN-Fecal Coliform			<1		MPN/100mL		1	10-JUN-17
MET-D-CCMS-ED								
Water								
Batch	R3749520							
WG2549373-10	LCS							
Aluminum (Al)-Dissolved			111.3		%		80-120	17-JUN-17
WG2549373-9	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	17-JUN-17
Batch	R3754859							
WG2553949-2	LCS							
Aluminum (Al)-Dissolved			107.4		%		80-120	22-JUN-17
WG2553949-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	22-JUN-17
Batch	R3755236							
WG2555669-2	LCS							
Aluminum (Al)-Dissolved			105.6		%		80-120	23-JUN-17
WG2555669-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	23-JUN-17
Batch	R3756412							
WG2553949-2	LCS							
Aluminum (Al)-Dissolved			106.9		%		80-120	26-JUN-17
WG2553949-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	26-JUN-17
MET-T-CCMS-ED								
Water								
Batch	R3745771							
WG2546056-2	LCS	HB_WATER						
Aluminum (Al)-Total			113.3		%		80-120	12-JUN-17
Antimony (Sb)-Total			104.7		%		80-120	12-JUN-17
Arsenic (As)-Total			105.9		%		80-120	12-JUN-17
Barium (Ba)-Total			105.7		%		80-120	12-JUN-17
Beryllium (Be)-Total			108.9		%		80-120	12-JUN-17
Bismuth (Bi)-Total			102.5		%		80-120	12-JUN-17
Boron (B)-Total			103.0		%		80-120	12-JUN-17
Cadmium (Cd)-Total			104.9		%		80-120	12-JUN-17
Calcium (Ca)-Total			104.0		%		80-120	12-JUN-17



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 3 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED								
	Water							
Batch	R3745771							
WG2546056-2	LCS	HB_WATER						
Cesium (Cs)-Total			101.3		%		80-120	12-JUN-17
Chromium (Cr)-Total			105.2		%		80-120	12-JUN-17
Cobalt (Co)-Total			102.9		%		80-120	12-JUN-17
Copper (Cu)-Total			102.3		%		80-120	12-JUN-17
Iron (Fe)-Total			100.7		%		80-120	12-JUN-17
Lead (Pb)-Total			103.9		%		80-120	12-JUN-17
Lithium (Li)-Total			107.1		%		80-120	12-JUN-17
Magnesium (Mg)-Total			108.0		%		80-120	12-JUN-17
Manganese (Mn)-Total			104.4		%		80-120	12-JUN-17
Molybdenum (Mo)-Total			103.1		%		80-120	12-JUN-17
Nickel (Ni)-Total			103.8		%		80-120	12-JUN-17
Phosphorus (P)-Total			96.1		%		70-130	12-JUN-17
Potassium (K)-Total			107.2		%		80-120	12-JUN-17
Rubidium (Rb)-Total			103.9		%		80-120	12-JUN-17
Selenium (Se)-Total			103.0		%		80-120	12-JUN-17
Silicon (Si)-Total			114.7		%		60-140	12-JUN-17
Silver (Ag)-Total			103.2		%		80-120	12-JUN-17
Sodium (Na)-Total			108.5		%		80-120	12-JUN-17
Strontium (Sr)-Total			111.3		%		80-120	12-JUN-17
Sulfur (S)-Total			105.7		%		80-120	12-JUN-17
Tellurium (Te)-Total			100.4		%		80-120	12-JUN-17
Thallium (Tl)-Total			101.1		%		80-120	12-JUN-17
Thorium (Th)-Total			102.1		%		80-120	12-JUN-17
Tin (Sn)-Total			101.2		%		80-120	12-JUN-17
Titanium (Ti)-Total			102.1		%		80-120	12-JUN-17
Tungsten (W)-Total			104.6		%		80-120	12-JUN-17
Uranium (U)-Total			105.4		%		80-120	12-JUN-17
Vanadium (V)-Total			106.7		%		80-120	12-JUN-17
Zinc (Zn)-Total			100.4		%		80-120	12-JUN-17
Zirconium (Zr)-Total			99.97		%		80-120	12-JUN-17
WG2546056-1								
	MB							
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-JUN-17
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-JUN-17



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 4 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED		Water						
Batch	R3745771							
WG2546056-1	MB							
Barium (Ba)-Total			<0.000050		mg/L		0.00005	12-JUN-17
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-JUN-17
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-JUN-17
Boron (B)-Total			<0.010		mg/L		0.01	12-JUN-17
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	12-JUN-17
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-JUN-17
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-JUN-17
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-JUN-17
Copper (Cu)-Total			<0.000050		mg/L		0.0005	12-JUN-17
Iron (Fe)-Total			<0.010		mg/L		0.01	12-JUN-17
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-JUN-17
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-JUN-17
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-JUN-17
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-JUN-17
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-JUN-17
Nickel (Ni)-Total			<0.000050		mg/L		0.0005	12-JUN-17
Phosphorus (P)-Total			<0.050		mg/L		0.05	12-JUN-17
Potassium (K)-Total			<0.050		mg/L		0.05	12-JUN-17
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-JUN-17
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-JUN-17
Silicon (Si)-Total			<0.10		mg/L		0.1	12-JUN-17
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-JUN-17
Sodium (Na)-Total			<0.050		mg/L		0.05	12-JUN-17
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-JUN-17
Sulfur (S)-Total			<0.50		mg/L		0.5	12-JUN-17
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-JUN-17
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-JUN-17
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-JUN-17
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-JUN-17
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-JUN-17
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-JUN-17
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-JUN-17
Vanadium (V)-Total			<0.000050		mg/L		0.0005	12-JUN-17
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-JUN-17



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 5 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED								
	Water							
Batch	R3745771							
WG2546056-1	MB							
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	12-JUN-17
Batch								
	R3746672							
WG2546679-2	LCS	HB_WATER						
Aluminum (Al)-Total			108.7		%		80-120	13-JUN-17
Antimony (Sb)-Total			99.8		%		80-120	13-JUN-17
Arsenic (As)-Total			102.6		%		80-120	13-JUN-17
Barium (Ba)-Total			104.0		%		80-120	13-JUN-17
Beryllium (Be)-Total			97.7		%		80-120	13-JUN-17
Bismuth (Bi)-Total			95.8		%		80-120	13-JUN-17
Boron (B)-Total			96.0		%		80-120	13-JUN-17
Cadmium (Cd)-Total			97.1		%		80-120	13-JUN-17
Calcium (Ca)-Total			95.8		%		80-120	13-JUN-17
Cesium (Cs)-Total			97.4		%		80-120	13-JUN-17
Chromium (Cr)-Total			98.5		%		80-120	13-JUN-17
Cobalt (Co)-Total			99.1		%		80-120	13-JUN-17
Copper (Cu)-Total			99.7		%		80-120	13-JUN-17
Iron (Fe)-Total			100.1		%		80-120	13-JUN-17
Lead (Pb)-Total			98.6		%		80-120	13-JUN-17
Lithium (Li)-Total			97.2		%		80-120	13-JUN-17
Magnesium (Mg)-Total			102.5		%		80-120	13-JUN-17
Manganese (Mn)-Total			103.0		%		80-120	13-JUN-17
Molybdenum (Mo)-Total			96.6		%		80-120	13-JUN-17
Nickel (Ni)-Total			99.1		%		80-120	13-JUN-17
Phosphorus (P)-Total			128.4		%		70-130	13-JUN-17
Potassium (K)-Total			103.3		%		80-120	13-JUN-17
Rubidium (Rb)-Total			98.8		%		80-120	13-JUN-17
Selenium (Se)-Total			98.7		%		80-120	13-JUN-17
Silicon (Si)-Total			108.2		%		60-140	13-JUN-17
Silver (Ag)-Total			101.5		%		80-120	13-JUN-17
Sodium (Na)-Total			103.3		%		80-120	13-JUN-17
Strontium (Sr)-Total			105.8		%		80-120	13-JUN-17
Sulfur (S)-Total			100.2		%		80-120	13-JUN-17
Tellurium (Te)-Total			99.7		%		80-120	13-JUN-17



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 6 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED								
	Water							
Batch	R3746672							
WG2546679-2	LCS	HB_WATER						
Thallium (Tl)-Total			97.3		%		80-120	13-JUN-17
Thorium (Th)-Total			95.0		%		80-120	13-JUN-17
Tin (Sn)-Total			98.8		%		80-120	13-JUN-17
Titanium (Ti)-Total			99.4		%		80-120	13-JUN-17
Tungsten (W)-Total			98.3		%		80-120	13-JUN-17
Uranium (U)-Total			98.9		%		80-120	13-JUN-17
Vanadium (V)-Total			100.1		%		80-120	13-JUN-17
Zinc (Zn)-Total			96.2		%		80-120	13-JUN-17
Zirconium (Zr)-Total			94.7		%		80-120	13-JUN-17
WG2546679-1	MB							
Aluminum (Al)-Total			<0.0030		mg/L		0.003	13-JUN-17
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Arsenic (As)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Barium (Ba)-Total			<0.000050		mg/L		0.00005	13-JUN-17
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	13-JUN-17
Boron (B)-Total			<0.010		mg/L		0.01	13-JUN-17
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	13-JUN-17
Calcium (Ca)-Total			<0.050		mg/L		0.05	13-JUN-17
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	13-JUN-17
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Copper (Cu)-Total			<0.00050		mg/L		0.0005	13-JUN-17
Iron (Fe)-Total			<0.010		mg/L		0.01	13-JUN-17
Lead (Pb)-Total			<0.000050		mg/L		0.00005	13-JUN-17
Lithium (Li)-Total			<0.0010		mg/L		0.001	13-JUN-17
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	13-JUN-17
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	13-JUN-17
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	13-JUN-17
Phosphorus (P)-Total			<0.050		mg/L		0.05	13-JUN-17
Potassium (K)-Total			<0.050		mg/L		0.05	13-JUN-17
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	13-JUN-17
Selenium (Se)-Total			<0.000050		mg/L		0.00005	13-JUN-17

Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 7 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED		Water						
Batch	R3746672							
WG2546679-1	MB							
Silicon (Si)-Total			<0.10		mg/L		0.1	13-JUN-17
Silver (Ag)-Total			<0.000010		mg/L		0.00001	13-JUN-17
Sodium (Na)-Total			<0.050		mg/L		0.05	13-JUN-17
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	13-JUN-17
Sulfur (S)-Total			<0.50		mg/L		0.5	13-JUN-17
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	13-JUN-17
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	13-JUN-17
Thorium (Th)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Tin (Sn)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	13-JUN-17
Tungsten (W)-Total			<0.00010		mg/L		0.0001	13-JUN-17
Uranium (U)-Total			<0.000010		mg/L		0.00001	13-JUN-17
Vanadium (V)-Total			<0.00050		mg/L		0.0005	13-JUN-17
Zinc (Zn)-Total			<0.0030		mg/L		0.003	13-JUN-17
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	13-JUN-17
NH3-COL-ED		Water						
Batch	R3748499							
WG2549426-12	LCS							
Ammonia, Total (as N)			108.2		%		85-115	15-JUN-17
WG2549426-14	LCS							
Ammonia, Total (as N)			104.6		%		85-115	15-JUN-17
WG2549426-2	LCS							
Ammonia, Total (as N)			99.4		%		85-115	15-JUN-17
WG2549426-20	LCS							
Ammonia, Total (as N)			105.7		%		85-115	15-JUN-17
WG2549426-1	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	15-JUN-17
WG2549426-11	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	15-JUN-17
WG2549426-13	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	15-JUN-17
WG2549426-19	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	15-JUN-17



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 8 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-ED								
	Water							
Batch	R3752404							
WG2553726-12	LCS							
Ammonia, Total (as N)			102.9		%		85-115	21-JUN-17
WG2553726-14	LCS							
Ammonia, Total (as N)			104.4		%		85-115	21-JUN-17
WG2553726-16	LCS							
Ammonia, Total (as N)			104.0		%		85-115	21-JUN-17
WG2553726-2	LCS							
Ammonia, Total (as N)			100.9		%		85-115	21-JUN-17
WG2553726-1	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	21-JUN-17
WG2553726-11	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	21-JUN-17
WG2553726-13	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	21-JUN-17
WG2553726-15	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	21-JUN-17
NO3-IC-N-ED								
	Water							
Batch	R3744347							
WG2545901-2	LCS							
Nitrate (as N)			95.5		%		90-110	10-JUN-17
WG2545901-1	MB							
Nitrate (as N)			<0.020		mg/L		0.02	10-JUN-17
OGG-LLE-GRAV-ED								
	Water							
Batch	R3745556							
WG2546113-2	LCS							
Oil and Grease			91.0		%		70-130	12-JUN-17
WG2546113-1	MB							
Oil and Grease			<1.0		mg/L		1	12-JUN-17
PH-ED								
	Water							
Batch	R3744410							
WG2546037-7	DUP	L1939807-4						
pH		7.36	7.28	J	pH	0.08	0.3	11-JUN-17
WG2546037-10	LCS	ED-PH6						
pH			6.00		pH		5.8-6.2	11-JUN-17
WG2546037-3	LCS	ED-PH6						
pH			6.02		pH		5.8-6.2	11-JUN-17
SOLIDS-TDS-ED								
	Water							



Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 9 of 11

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-ED		Water						
Batch	R3746490							
WG2546196-2	LCS							
Total Dissolved Solids			102.7		%		85-115	12-JUN-17
WG2546196-1	MB							
Total Dissolved Solids			<10		mg/L		10	12-JUN-17
SOLIDS-TOTSUS-ED		Water						
Batch	R3746204							
WG2546439-2	LCS							
Total Suspended Solids			98.0		%		85-115	12-JUN-17
WG2546439-1	MB							
Total Suspended Solids			<3.0		mg/L		3	12-JUN-17

Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 10 of 11

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1939807

Report Date: 26-JUN-17

Page 11 of 11

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	08-JUN-17 17:30	11-JUN-17 00:00	0.25	54	hours	EHTR-FM
	2	08-JUN-17 23:00	11-JUN-17 00:00	0.25	49	hours	EHTR-FM
	3	09-JUN-17 10:00	11-JUN-17 00:00	0.25	38	hours	EHTR-FM
	4	09-JUN-17 11:00	11-JUN-17 00:00	0.25	37	hours	EHTR-FM
	5	09-JUN-17 11:30	11-JUN-17 00:00	0.25	36	hours	EHTR-FM
Bacteriological Tests							
Thermotolerant (Fecal) Coliforms							
	1	08-JUN-17 17:30	10-JUN-17 12:45	30	43	hours	EHTL
	2	08-JUN-17 23:00	10-JUN-17 12:45	30	38	hours	EHTL

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1939807 were received on 09-JUN-17 16:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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Taiga Batch No.:
170352

- FINAL REPORT -

Prepared For: ALS Environmental

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Facsimile:

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Judy Mah', written over a horizontal line.

Judy Mah
Client Service Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
170352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L1939807-1 CONTWOYTO**

Taiga Sample ID: **001**

Client Project:

Sample Type: Water

Received Date: 09-Jun-17

Sampling Date: 08-Jun-17

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	< 2	2	mg/L	10-Jun-17	SM5210:B	

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
170352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L1939807-2 PIT**

Taiga Sample ID: **002**

Client Project:

Sample Type: Water

Received Date: 09-Jun-17

Sampling Date: 08-Jun-17

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	< 2	2	mg/L	10-Jun-17	SM5210:B	

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*

Page 3 of 7



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
170352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L1939807-3 WEST DAM**

Taiga Sample ID: **003**

Client Project:

Sample Type: Water

Received Date: 09-Jun-17

Sampling Date: 09-Jun-17

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	< 2	2	mg/L	10-Jun-17	SM5210:B	

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*

Page 4 of 7



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
170352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L1939807-4 PHASE 1**

Taiga Sample ID: **004**

Client Project:

Sample Type: Water

Received Date: 09-Jun-17

Sampling Date: 09-Jun-17

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	3	2	mg/L	10-Jun-17	SM5210:B	

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
170352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L1939807-5 DYKE A**

Taiga Sample ID: **005**

Client Project:

Sample Type: Water

Received Date: 09-Jun-17

Sampling Date: 09-Jun-17

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	< 2	2	mg/L	10-Jun-17	SM5210:B	

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:

170352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L1939807-5 DYKE A**

Taiga Sample ID: **005**

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

ReportDate: Tuesday, June 20, 2017

Print Date: *Tuesday, June 20, 2017*

Page 7 of 7

Attention: Henry Wong

DXB Projects
ON
Canada

Report Date: 2018/08/15
Report #: R5357319
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8J9249

Received: 2018/08/07, 10:32

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
Biochemical Oxygen Demand (BOD)	1	2018/08/08	2018/08/13	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	1	N/A	2018/08/08	CAM SOP-00463	EPA 325.2 m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2018/08/09	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2018/08/14	2018/08/15	CAM SOP-00316	CCME PHC-CWS m
Total Metals Analysis by ICPMS	3	N/A	2018/08/09	CAM SOP-00447	EPA 6020B m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	1	N/A	2018/08/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Total Oil and Grease	1	2018/08/13	2018/08/14	CAM SOP-00326	EPA1664B m,SM5520A m
pH	1	N/A	2018/08/08	CAM SOP-00413	SM 4500H+ B m
Total Dissolved Solids	1	2018/08/08	2018/08/08	CAM SOP-00428	SM 23 2540C m
Total Suspended Solids	1	2018/08/08	2018/08/08	CAM SOP-00428	SM 23 2540D m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: JERICO 2018
Your C.O.C. #: M057627

Attention: Henry Wong

DXB Projects
ON
Canada

Report Date: 2018/08/15
Report #: R5357319
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8J9249

Received: 2018/08/07, 10:32

- (1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
- (2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Gemarie Balatico, Project Manager
Email: gbalatico@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

CCME PETROLEUM HYDROCARBONS IN WATER (WATER)

Maxxam ID		HKF488		
Sampling Date		2018/08/05 15:00		
COC Number		M057627		
	UNITS	BERM-1	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	ND	0.20	5669882
Toluene	ug/L	ND	0.20	5669882
Ethylbenzene	ug/L	ND	0.20	5669882
o-Xylene	ug/L	ND	0.20	5669882
p+m-Xylene	ug/L	0.44	0.40	5669882
Total Xylenes	ug/L	0.44	0.40	5669882
F1 (C6-C10)	ug/L	ND	25	5669882
F1 (C6-C10) - BTEX	ug/L	ND	25	5669882
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	210	100	5679011
F3 (C16-C34 Hydrocarbons)	ug/L	1900	200	5679011
F4 (C34-C50 Hydrocarbons)	ug/L	ND	200	5679011
Reached Baseline at C50	ug/L	Yes		5679011
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	99		5669882
4-Bromofluorobenzene	%	96		5669882
D10-Ethylbenzene	%	102		5669882
D4-1,2-Dichloroethane	%	102		5669882
o-Terphenyl	%	106		5679011
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected				

RESULTS OF ANALYSES OF WATER

Maxxam ID		HKF488		
Sampling Date		2018/08/05 15:00		
COC Number		M057627		
	UNITS	BERM-1	RDL	QC Batch
Inorganics				
Total BOD	mg/L	670	2	5668407
Total Dissolved Solids	mg/L	155	10	5669521
pH	pH	6.60		5668366
Total Suspended Solids	mg/L	17	14	5669955
Dissolved Chloride (Cl-)	mg/L	6.0	1.0	5667428
Nitrite (N)	mg/L	ND	0.050	5667379
Nitrate (N)	mg/L	ND	0.50	5667379
Nitrate + Nitrite (N)	mg/L	ND	0.50	5667379
Petroleum Hydrocarbons				
Total Oil & Grease	mg/L	6.4	0.50	5676110
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected				

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HKF488			HKF489	HKF490		
Sampling Date		2018/08/05 15:00			2018/08/05 15:00	2018/08/05 15:00		
COC Number		M057627			M057627	M057627		
	UNITS	BERM-1	RDL	QC Batch	PIT-1	PIT-2	RDL	QC Batch
Metals								
Total Aluminum (Al)	ug/L	37	5.0	5669653				
Total Antimony (Sb)	ug/L	0.64	0.50	5669653				
Total Arsenic (As)	ug/L	1.1	1.0	5669653				
Total Barium (Ba)	ug/L	67	2.0	5669653				
Total Beryllium (Be)	ug/L	ND	0.50	5669653				
Total Bismuth (Bi)	ug/L	ND	1.0	5669653				
Total Boron (B)	ug/L	400	10	5669653				
Total Cadmium (Cd)	ug/L	ND	0.10	5669653				
Total Calcium (Ca)	ug/L	19000	200	5669653				
Total Cesium (Cs)	ug/L	ND	0.20	5669653				
Total Chromium (Cr)	ug/L	ND	5.0	5669653				
Total Cobalt (Co)	ug/L	17	0.50	5669653				
Total Copper (Cu)	ug/L	1.8	1.0	5669653				
Total Iron (Fe)	ug/L	440	100	5669653				
Total Lead (Pb)	ug/L	ND	0.50	5669653				
Total Lithium (Li)	ug/L	15	5.0	5669653				
Total Magnesium (Mg)	ug/L	2500	50	5669653				
Total Manganese (Mn)	ug/L	6600	2.0	5669653				
Total Molybdenum (Mo)	ug/L	9.8	0.50	5669653				
Total Nickel (Ni)	ug/L	74	1.0	5669653				
Total Phosphorus (P)	ug/L	4200	100	5669653				
Total Potassium (K)	ug/L	1500	200	5669653				
Total Rubidium (Rb)	ug/L	2.9	0.20	5669653				
Total Selenium (Se)	ug/L	ND	2.0	5669653				
Total Silicon (Si)	ug/L	1200	50	5669653				
Total Silver (Ag)	ug/L	ND	0.10	5669653				
Total Sodium (Na)	ug/L	4700	100	5669653				
Total Strontium (Sr)	ug/L	66	1.0	5669653				
Total Tellurium (Te)	ug/L	ND	1.0	5669653				
Total Thallium (Tl)	ug/L	ND	0.050	5669653				
Total Thorium (Th)	ug/L	ND	2.0	5669653				
Total Tin (Sn)	ug/L	ND	1.0	5669653				
Total Titanium (Ti)	ug/L	5.5	5.0	5669653				
Total Tungsten (W)	ug/L	ND	1.0	5669653				
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected								

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HKF488			HKF489	HKF490		
Sampling Date		2018/08/05 15:00			2018/08/05 15:00	2018/08/05 15:00		
COC Number		M057627			M057627	M057627		
	UNITS	BERM-1	RDL	QC Batch	PIT-1	PIT-2	RDL	QC Batch
Total Uranium (U)	ug/L	0.50	0.10	5669653	75	74	0.10	5669653
Total Vanadium (V)	ug/L	ND	0.50	5669653				
Total Zinc (Zn)	ug/L	950	5.0	5669653				
Total Zirconium (Zr)	ug/L	ND	1.0	5669653				
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected								

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.3°C
-----------	-------

Metals Scan Analysis: Samples were submitted using containers that were not provided by Maxxam. Analysis performed with client's consent.

Sample HKF488 [BERM-1] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5669882	1,4-Difluorobenzene	2018/08/08	98	70 - 130	100	70 - 130	101	%				
5669882	4-Bromofluorobenzene	2018/08/08	99	70 - 130	98	70 - 130	98	%				
5669882	D10-Ethylbenzene	2018/08/08	100	70 - 130	100	70 - 130	98	%				
5669882	D4-1,2-Dichloroethane	2018/08/08	101	70 - 130	102	70 - 130	102	%				
5679011	o-Terphenyl	2018/08/15	100	60 - 130	99	60 - 130	96	%				
5667379	Nitrate (N)	2018/08/08	96	80 - 120	94	80 - 120	ND, RDL=0.10	mg/L	NC (1)	20		
5667379	Nitrite (N)	2018/08/08	99	80 - 120	98	80 - 120	ND, RDL=0.010	mg/L	NC (1)	20		
5667428	Dissolved Chloride (Cl-)	2018/08/08	NC	80 - 120	100	80 - 120	ND, RDL=1.0	mg/L	5.9 (1)	20		
5668366	pH	2018/08/08			100	98 - 103			0.23 (1)	N/A		
5668407	Total BOD	2018/08/13					ND,RDL=2	mg/L	4.5 (1)	30	102	80 - 120
5669521	Total Dissolved Solids	2018/08/08					ND, RDL=10	mg/L	1.9 (1)	25	97	90 - 110
5669653	Total Aluminum (Al)	2018/08/09	NC	80 - 120	98	80 - 120	ND, RDL=5.0	ug/L	0.36 (1)	20		
5669653	Total Antimony (Sb)	2018/08/09	107	80 - 120	97	80 - 120	ND, RDL=0.50	ug/L	2.6 (1)	20		
5669653	Total Arsenic (As)	2018/08/09	102	80 - 120	101	80 - 120	ND, RDL=1.0	ug/L	NC (1)	20		
5669653	Total Barium (Ba)	2018/08/09	97	80 - 120	96	80 - 120	ND, RDL=2.0	ug/L	NC (1)	20		
5669653	Total Beryllium (Be)	2018/08/09	100	80 - 120	102	80 - 120	ND, RDL=0.50	ug/L	NC (1)	20		
5669653	Total Bismuth (Bi)	2018/08/09	87	80 - 120	92	80 - 120	ND, RDL=1.0	ug/L	NC (1)	20		
5669653	Total Boron (B)	2018/08/09	93	80 - 120	93	80 - 120	ND, RDL=10	ug/L	3.1 (1)	20		
5669653	Total Cadmium (Cd)	2018/08/09	98	80 - 120	99	80 - 120	ND, RDL=0.10	ug/L	NC (1)	20		
5669653	Total Calcium (Ca)	2018/08/09	NC	80 - 120	97	80 - 120	ND, RDL=200	ug/L	2.3 (1)	20		
5669653	Total Cesium (Cs)	2018/08/09	96	80 - 120	94	80 - 120	ND, RDL=0.20	ug/L				
5669653	Total Chromium (Cr)	2018/08/09	NC	80 - 120	94	80 - 120	ND, RDL=5.0	ug/L	1.6 (1)	20		
5669653	Total Cobalt (Co)	2018/08/09	97	80 - 120	97	80 - 120	ND, RDL=0.50	ug/L	1.4 (1)	20		
5669653	Total Copper (Cu)	2018/08/09	104	80 - 120	98	80 - 120	ND, RDL=1.0	ug/L	1.2 (1)	20		
5669653	Total Iron (Fe)	2018/08/09	98	80 - 120	100	80 - 120	ND, RDL=100	ug/L	NC (1)	20		
5669653	Total Lead (Pb)	2018/08/09	91	80 - 120	97	80 - 120	ND, RDL=0.50	ug/L	NC (1)	20		
5669653	Total Lithium (Li)	2018/08/09	98	80 - 120	101	80 - 120	ND, RDL=5.0	ug/L	NC (1)	20		
5669653	Total Magnesium (Mg)	2018/08/09	105	80 - 120	101	80 - 120	ND, RDL=50	ug/L	0.72 (1)	20		
5669653	Total Manganese (Mn)	2018/08/09	97	80 - 120	96	80 - 120	ND, RDL=2.0	ug/L	1.7 (1)	20		
5669653	Total Molybdenum (Mo)	2018/08/09	110	80 - 120	94	80 - 120	ND, RDL=0.50	ug/L	2.8 (1)	20		
5669653	Total Nickel (Ni)	2018/08/09	92	80 - 120	98	80 - 120	ND, RDL=1.0	ug/L	2.7 (1)	20		

QUALITY ASSURANCE REPORT(CONT'D)

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5669653	Total Phosphorus (P)	2018/08/09	NC	80 - 120	116	80 - 120	ND, RDL=100	ug/L	1.3 (1)	20		
5669653	Total Potassium (K)	2018/08/09	NC	80 - 120	101	80 - 120	ND, RDL=200	ug/L	0.92 (1)	20		
5669653	Total Rubidium (Rb)	2018/08/09	93	80 - 120	95	80 - 120	ND, RDL=0.20	ug/L				
5669653	Total Selenium (Se)	2018/08/09	100	80 - 120	102	80 - 120	ND, RDL=2.0	ug/L	NC (1)	20		
5669653	Total Silicon (Si)	2018/08/09	115	80 - 120	102	80 - 120	ND, RDL=50	ug/L	2.7 (1)	20		
5669653	Total Silver (Ag)	2018/08/09	93	80 - 120	97	80 - 120	ND, RDL=0.10	ug/L	1.9 (1)	20		
5669653	Total Sodium (Na)	2018/08/09	NC	80 - 120	102	80 - 120	ND, RDL=100	ug/L	0.41 (1)	20		
5669653	Total Strontium (Sr)	2018/08/09	94	80 - 120	96	80 - 120	ND, RDL=1.0	ug/L	1.6 (1)	20		
5669653	Total Tellurium (Te)	2018/08/09	100	80 - 120	102	80 - 120	ND, RDL=1.0	ug/L	NC (1)	20		
5669653	Total Thallium (Tl)	2018/08/09	90	80 - 120	96	80 - 120	ND, RDL=0.050	ug/L	4.2 (1)	20		
5669653	Total Thorium (Th)	2018/08/09	99	80 - 120	98	80 - 120	ND, RDL=2.0	ug/L				
5669653	Total Tin (Sn)	2018/08/09	107	80 - 120	97	80 - 120	ND, RDL=1.0	ug/L	NC (1)	20		
5669653	Total Titanium (Ti)	2018/08/09	109	80 - 120	99	80 - 120	ND, RDL=5.0	ug/L	17 (1)	20		
5669653	Total Tungsten (W)	2018/08/09	102	80 - 120	100	80 - 120	ND, RDL=1.0	ug/L	4.2 (1)	20		
5669653	Total Uranium (U)	2018/08/09	99	80 - 120	99	80 - 120	ND, RDL=0.10	ug/L	NC (1)	20		
5669653	Total Vanadium (V)	2018/08/09	101	80 - 120	95	80 - 120	ND, RDL=0.50	ug/L	0.29 (1)	20		
5669653	Total Zinc (Zn)	2018/08/09	88	80 - 120	103	80 - 120	ND, RDL=5.0	ug/L	2.3 (1)	20		
5669653	Total Zirconium (Zr)	2018/08/09	110	80 - 120	96	80 - 120	ND, RDL=1.0	ug/L	NC (1)	20		
5669882	Benzene	2018/08/08	90	70 - 130	90	70 - 130	ND, RDL=0.20	ug/L	NC (1)	30		
5669882	Ethylbenzene	2018/08/08	90	70 - 130	87	70 - 130	ND, RDL=0.20	ug/L	6.8 (1)	30		
5669882	F1 (C6-C10) - BTEX	2018/08/08					ND, RDL=25	ug/L	24 (1)	30		
5669882	F1 (C6-C10)	2018/08/08	80	70 - 130	82	70 - 130	ND, RDL=25	ug/L	23 (1)	30		
5669882	o-Xylene	2018/08/08	88	70 - 130	84	70 - 130	ND, RDL=0.20	ug/L	4.7 (1)	30		
5669882	p+m-Xylene	2018/08/08	88	70 - 130	86	70 - 130	ND, RDL=0.40	ug/L	1.6 (1)	30		
5669882	Toluene	2018/08/08	93	70 - 130	91	70 - 130	ND, RDL=0.20	ug/L	NC (1)	30		
5669882	Total Xylenes	2018/08/08					ND, RDL=0.40	ug/L	2.8 (1)	30		
5669955	Total Suspended Solids	2018/08/08					ND, RDL=10	mg/L	NC (1)	25	100	85 - 115
5676110	Total Oil & Grease	2018/08/14	94	75 - 125	97	85 - 115	ND, RDL=0.50	mg/L	0.77 (1)	25		
5679011	F2 (C10-C16 Hydrocarbons)	2018/08/15	93	50 - 130	94	60 - 130	ND, RDL=100	ug/L	NC (1)	30		
5679011	F3 (C16-C34 Hydrocarbons)	2018/08/15	90	50 - 130	91	60 - 130	ND, RDL=200	ug/L	NC (1)	30		

QUALITY ASSURANCE REPORT(CONT'D)

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5679011	F4 (C34-C50 Hydrocarbons)	2018/08/15	87	50 - 130	88	60 - 130	ND, RDL=200	ug/L	NC (1)	30		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Cristina Carriere

Cristina Carriere, Scientific Service Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



DXB PROJECT MANAGEMENT INC.
ATTN: Henry Wong
315 Montgomery Avenue
Winnipeg MB R3L 1T6

Date Received: 28-AUG-18
Report Date: 13-SEP-18 08:25 (MT)
Version: FINAL

Client Phone: 204-795-5508

Certificate of Analysis

Lab Work Order #: L2154839
Project P.O. #: TA8
Job Reference: JERICO MINE SITE STABILIZATION
C of C Numbers: 20180828-1
Legal Site Desc:

Rick Zolkiewski
General Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 314 Old Airport Road, Unit 116, Yellowknife, NT X1A 3T3 Canada | Phone: +1 867 873 5593 |
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L2154839-1 WATER 28-AUG-18 11:45 2018-2 OPEN PIT			
Grouping	Analyte				
WATER					
Physical Tests	pH (pH)	7.89			
	Total Suspended Solids (mg/L)	<3.0			
	Total Dissolved Solids (mg/L)	107			
Anions and Nutrients	Ammonia, Total (as N) (mg/L)	0.0090			
	Chloride (Cl) (mg/L)	4.52			
	Nitrate and Nitrite (as N) (mg/L)	5.22			
	Nitrate (as N) (mg/L)	5.21			
	Nitrite (as N) (mg/L)	0.0148			
Bacteriological Tests	MPN-Fecal Coliform (MPN/100mL)	<1			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0768			
	Antimony (Sb)-Total (mg/L)	0.00023			
	Arsenic (As)-Total (mg/L)	0.00053			
	Barium (Ba)-Total (mg/L)	0.0241			
	Beryllium (Be)-Total (mg/L)	<0.00010			
	Bismuth (Bi)-Total (mg/L)	<0.000050			
	Boron (B)-Total (mg/L)	0.028			
	Cadmium (Cd)-Total (mg/L)	<0.0000050			
	Calcium (Ca)-Total (mg/L)	13.9			
	Cesium (Cs)-Total (mg/L)	0.000053			
	Chromium (Cr)-Total (mg/L)	0.00031			
	Cobalt (Co)-Total (mg/L)	<0.00010			
	Copper (Cu)-Total (mg/L)	0.00315			
	Iron (Fe)-Total (mg/L)	0.073			
	Lead (Pb)-Total (mg/L)	0.000114			
	Lithium (Li)-Total (mg/L)	0.0021			
	Magnesium (Mg)-Total (mg/L)	6.69			
	Manganese (Mn)-Total (mg/L)	0.00241			
	Mercury (Hg)-Total (mg/L)	<0.0000050			
	Molybdenum (Mo)-Total (mg/L)	0.00500			
	Nickel (Ni)-Total (mg/L)	0.00212			
	Phosphorus (P)-Total (mg/L)	<0.050			
	Potassium (K)-Total (mg/L)	3.12			
	Rubidium (Rb)-Total (mg/L)	0.00608			
	Selenium (Se)-Total (mg/L)	0.000212			
	Silicon (Si)-Total (mg/L)	1.78			
	Silver (Ag)-Total (mg/L)	<0.000010			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L2154839-1	WATER	28-AUG-18	11:45	2018-2 OPEN PIT
Grouping	Analyte					
WATER						
Total Metals	Sodium (Na)-Total (mg/L)	5.59				
	Strontium (Sr)-Total (mg/L)	0.177				
	Sulfur (S)-Total (mg/L)	3.51				
	Tellurium (Te)-Total (mg/L)	<0.00020				
	Thallium (Tl)-Total (mg/L)	<0.000010				
	Thorium (Th)-Total (mg/L)	<0.00010				
	Tin (Sn)-Total (mg/L)	<0.00010				
	Titanium (Ti)-Total (mg/L)	0.00224				
	Tungsten (W)-Total (mg/L)	0.00030				
	Uranium (U)-Total (mg/L)	0.0687				
	Vanadium (V)-Total (mg/L)	0.00091				
	Zinc (Zn)-Total (mg/L)	<0.0030				
	Zirconium (Zr)-Total (mg/L)	0.000149				
	Aggregate Organics	Biochemical Oxygen Demand (mg/L)	<2.0			
Oil and Grease (mg/L)		<5.0				
Volatile Organic Compounds	Benzene (mg/L)	<0.00050				
	Ethylbenzene (mg/L)	<0.00050				
	Methyl t-butyl ether (MTBE) (mg/L)	<0.00050				
	Styrene (mg/L)	<0.00050				
	Toluene (mg/L)	<0.00045				
	ortho-Xylene (mg/L)	<0.00050				
	meta- & para-Xylene (mg/L)	<0.00050				
	Xylenes (mg/L)	<0.00075				
	F1 (C6-C10) (mg/L)	<0.10				
	Surrogate: 4-Bromofluorobenzene (SS) (%)	92.1				
	Surrogate: 1,4-Difluorobenzene (SS) (%)	101.9				
Hydrocarbons	F1-BTEX (mg/L)	<0.10				
	TEH10-30 (mg/L)	<0.25				
	F2 (C10-C16) (mg/L)	<0.30				
	F3 (C16-C34) (mg/L)	<0.30				
	F4 (C34-C50) (mg/L)	<0.30				
	Surrogate: 2-Bromobenzotrifluoride (%)	103.1				
	Surrogate: 2-Bromobenzotrifluoride, F2-F4 (%)	91.7				
	Surrogate: 3,4-Dichlorotoluene (SS) (%)	67.1				SURRE- ND

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Barium (Ba)-Total	MS-B	L2154839-1
Matrix Spike	Calcium (Ca)-Total	MS-B	L2154839-1
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2154839-1
Matrix Spike	Manganese (Mn)-Total	MS-B	L2154839-1
Matrix Spike	Potassium (K)-Total	MS-B	L2154839-1
Matrix Spike	Silicon (Si)-Total	MS-B	L2154839-1
Matrix Spike	Sodium (Na)-Total	MS-B	L2154839-1
Matrix Spike	Strontium (Sr)-Total	MS-B	L2154839-1
Matrix Spike	Uranium (U)-Total	MS-B	L2154839-1

Qualifiers for Individual Parameters Listed:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-N+N-CALC-VA	Water	Nitrite & Nitrate in Water (Calculation)	EPA 300.0
Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).			
BOD5-TG	Water	Biochemical Oxygen Demand- 5 day (TAIGA)	SM5210B
CL-IC-N-VA	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
EC-SCREEN-VA	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.			
EPH-ME-FID-VA	Water	EPH in Water	BC Lab Manual
EPH is extracted from water using a hexane micro-extraction technique, with analysis by GC-FID, as per the BC Lab Manual. EPH results include PAHs and are therefore not equivalent to LEPH or HEPH.			
F1-BTX-CALC-VA	Water	F1-Total BTX	CCME CWS PHC TIER 1 (2001)
This analysis is based on the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For F1 (C6-C10), the sample undergoes a purge and trap extraction prior to analysis by GC/FID. The F1-BTEX result is calculated as follows:			
F1-BTEX: F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).			
F1-HSFID-VA	Water	CCME F1 By Headspace with GCFID	EPA 5021A/CCME CWS PHC (Pub# 1310)
This analysis is based on the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For F1 (C6-C10), the sample undergoes a headspace purge prior to analysis by GC/FID.			
F1 (C6-C10): Sum of all hydrocarbons that elute between nC6 and nC10.			
F2-F4-ME-FID-VA	Water	CCME F2-F4 Hydrocarbons in Water	CCME CWS-PHC, Pub #1310, Dec 2001
F2-F4 is extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, Dec 2001.			
FCOLI-MPN-YL	Water	Thermotolerant (Fecal) Coliforms	APHA 9223B, 2004 Enzyme Substrate Method
Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal Coliform (Thermotolerant) bacteria are determined by mixing sample with a mixture of hydrolyzable substrates and then sealing in a multi-well packet. The packet is incubated for 18-24 hours and the number of wells exhibiting a positive response are counted. The final result is obtained by comparing the positive responses to a probability table.			
HG-T-CVAA-VA	Water	Total Mercury in Water by CVAAS or CVAFS	EPA 1631E (mod)
Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.			
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			

Reference Information

NH3-F-VA	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.			
NO2-L-IC-N-VA	Water	Nitrite in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
NO3-L-IC-N-VA	Water	Nitrate in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
OGG-SF-VA	Water	Oil & Grease by Gravimetric	BCMOE (2010), EPA1664A
The procedure involves an extraction of the entire water sample with hexane. This extract is then evaporated to dryness, and the residue weighed to determine Oil and Grease.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
It is recommended that this analysis be conducted in the field.			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.			
TSS-VA	Water	Total Suspended Solids by Gravimetric	APHA 2540 D - GRAVIMETRIC
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.			
VH-SURR-FID-VA	Water	VH Surrogates for Waters	BC Env. Lab Manual (VH in Solids)
VOC7-HSMS-VA	Water	BTEX/MTBE/Styrene by Headspace GCMS	EPA 5021A/8260C
The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.			
VOC7/VOC-SURR-MS-VA	Water	VOC7 and/or VOC Surrogates for Waters	EPA 5035A/5021A/8260C
XYLENES-CALC-VA	Water	Sum of Xylene Isomer Concentrations	CALCULATION
Calculation of Total Xylenes			
Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TG	TAIGA ENVIRONMENTAL LABORATORY (INAC)
YL	ALS ENVIRONMENTAL -YELLOWKNIFE, NORTHWEST TERRITORIES CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

20180828-1

Reference Information

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
180832

- FINAL REPORT -

Prepared For: ALS Environmental

Address: 314 Old Airport Road
Unit 116
Yellowknife, NT
X1A 2R1

Attn: Rick Zolkiewski

Facsimile:

Final report has been reviewed and approved by:

Glen Hudy
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: Sunday, September 09, 2018

Print Date: *Sunday, September 09, 2018*



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
180832

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **L2154839-1 JERICHO PIT-0828**

Taiga Sample ID: **001**

Client Project:

Sample Type: Water

Received Date: 29-Aug-18

Sampling Date: 28-Aug-18

Sampling Time: 11:45

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	< 2	2	mg/L	29-Aug-18	SM5210:B	

ReportDate: Sunday, September 09, 2018

Print Date: *Sunday, September 09, 2018*

Page 2 of 3



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:

180832

- CERTIFICATE OF ANALYSIS -

Client Sample ID: L2154839-1 JERICHO PIT-0828

Taiga Sample ID: 001

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

Comments *L2154839*

ReportDate: Sunday, September 09, 2018

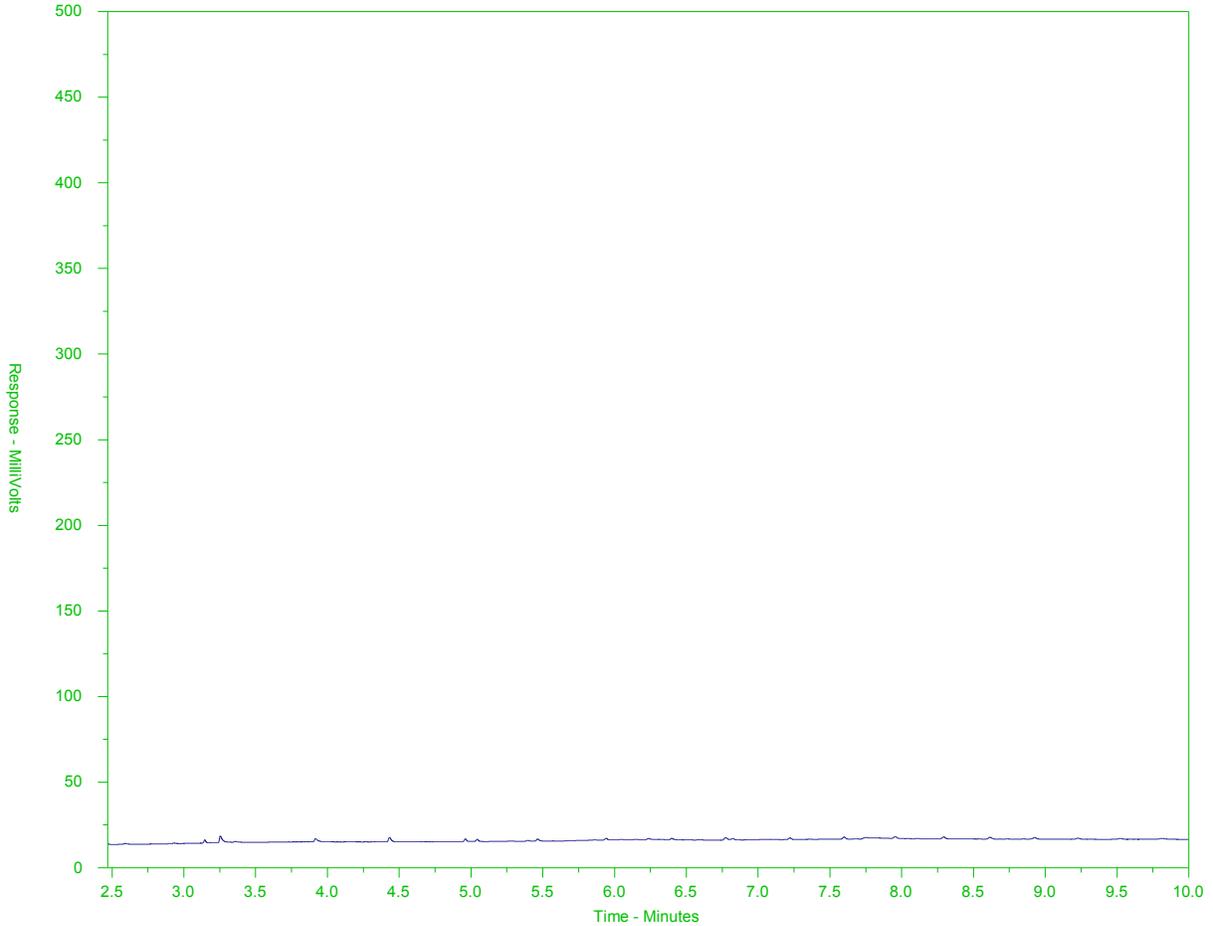
Print Date: *Sunday, September 09, 2018*

Page 3 of 3

BC EPH HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2154839-1
 Client Sample ID: 2018-2 OPEN PIT



← EPH10-19 →		← EPH19-32 →	
nC10	nC19	nC32	
174°C	330°C	467°C	
346°F	626°F	873°F	
← Gasoline →	← Diesel/ Jet Fuels →		
		← Motor Oils/ Lube Oils/ Grease →	

The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

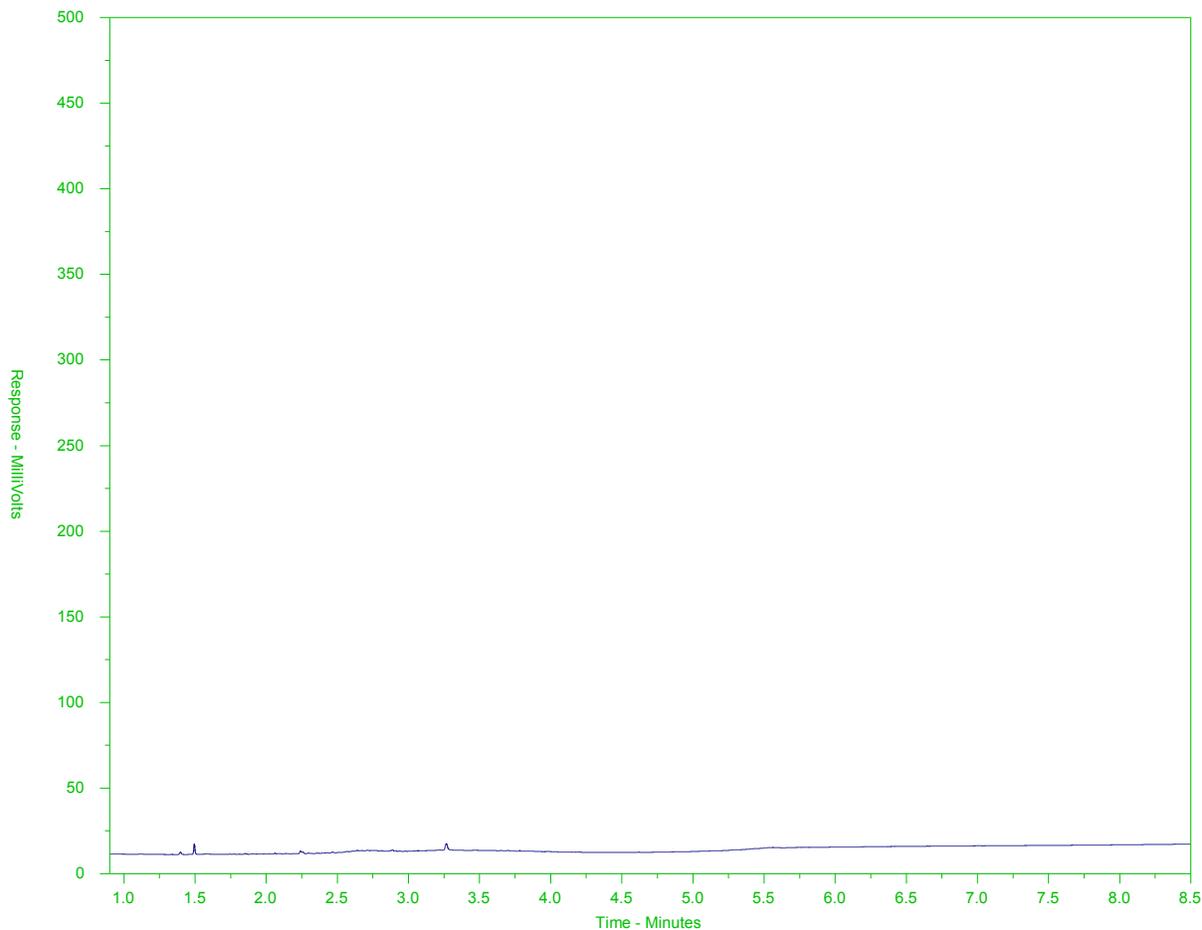
A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

Note: This chromatogram was produced using GC conditions that are specific to the ALS Canada EPH method. Refer to the ALS Canada EPH Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2154839-C-1
 Client Sample ID: 2018-2 OPEN PIT



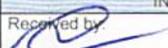
← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
← Gasoline →		← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

Report To Contact and company name below will appear on the final report		Report Format / Distribution			Select Service Level Below - Please confirm all E&P TATs with your AM - surcharges will apply				
Company:		Select Report Format: <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			Regular [R] <input type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply		EMERGENCY		
Contact:		Quality Control (QC) Report with Report <input type="checkbox"/> YES <input type="checkbox"/> NO			4 day [P4] <input type="checkbox"/>		1 Business day [E1] <input type="checkbox"/>		
Phone:		<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked			3 day [P3] <input type="checkbox"/>		Same Day, Weekend or Statutory holiday [E0] <input type="checkbox"/>		
Company address below will appear on the final report		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			2 day [P2] <input type="checkbox"/>				
Street:		Email 1 or Fax			Date and Time Required for all E&P TATs: <input type="text"/>				
City/Province:		Email 2			For tests that can not be performed according to the service level selected, you will be contacted.				
Postal Code:		Email 3			Analysis Request				
Invoice To		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below				
Same as Report To <input type="checkbox"/> YES <input type="checkbox"/> NO		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX							
Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO		Email 1 or Fax							
Company:		Email 2							
Contact:									
Project Information		Oil and Gas Required Fields (client use)							
ALS Account # / Quote #:		AFE/Cost Center:		PO#					
Job #:		Major/Minor Code:		Routing Code:					
PO / AFE:		Requisitioner:							
LSD:		Location:							
ALS Lab Work Order # (lab use only)		ALS Contact:		Sampler:					
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type					
	JERICHO PIT-0828	28-AUG-18							
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)			SAMPLE CONDITION AS RECEIVED (lab use only)				
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input type="checkbox"/> NO					Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>				
Are samples for human drinking water use? <input type="checkbox"/> YES <input type="checkbox"/> NO					Ice Packs <input type="checkbox"/> Ice Cubes <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>				
					Cooling Initiated <input type="checkbox"/>				
					INITIAL COOLER TEMPERATURES °C: 8.1				
					FINAL COOLER TEMPERATURES °C:				
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)				
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	
				Aug 28 18	4:30				



Number of Containers

GENERAL TERMS AND CONDITIONS:

1. Definitions. Capitalized Terms not defined in these Terms and Conditions have the definitions set out in the other Agreement documents.
2. The Services. ALS will provide the Services to the Client as described in the Offer and in any chain of custody form provided with any sample.
3. Prices. ALS may review and change all prices, fees, surcharges or other charges set out in the Agreement if there are changes to ALS's cost beyond ALS's control, including changes in legislative requirements, Client variations of sample numbers and Client requests for changes to standard reporting requirements. Notwithstanding Condition 3, all quotations are reviewed and updated on a yearly basis or expire after one year.
4. Payment Terms. The Client shall pay ALS within 30 days of the invoice date OAC. ALS may, for reasonable business reasons, require the Client to arrange for payment in advance.
5. Quotation Numbers. The Client shall provide the quotation number to ALS (where applicable) to ensure correct pricing.
6. Taxes. Applicable taxes are not included in prices - surcharges and additional fees will be added at the time of invoicing.
7. Quality Control. ALS has an extensive QA/QC program. Clients' samples are analyzed using approved, referenced procedures followed by thorough data validation prior to reporting the analytical results.
8. Test Results are Not Guaranteed. Results are obtained from analytical measurements that are subject to inherent variability. Measurement results reflect characteristics of submitted test samples at time of analysis. The Client is responsible for informing itself on the limitation of test results and acknowledges that test results are not guaranteed.
9. Standard of Care. ALS will use reasonable care and diligence as required by the laws of the province or territory where the sample is tested.
10. Storage. Where possible, ALS will store samples for 30 days from the date a final report is issued to the Client, after which ALS may discard the samples.
11. Hold. If the Client requests a sample to be placed on hold, ALS will store the sample for 30 days from date of receipt, after which ALS will invoice the Client and discard the sample. Longer hold periods are available upon request.
12. Archives. If the Client requests a sample be archived, ALS will invoice in advance and store the sample for the period requested, after which ALS may discard the sample.
13. Handling Protocol. Legal sample handling protocol must be arranged before samples are collected. ALS charges a surcharge on the list price plus the hourly technologist or chemist rates for legal sample protocol. Additional charges will apply for samples that require storage by ALS.
14. Samples. The quality, condition and source of samples stored and tested are not known to ALS except as declared and described on the chain of custody form completed and submitted by the Client and accompanying the sample.
15. Risk of Loss. ALS will use reasonable care to protect samples during storage, however all samples are stored at the Client's risk and the Client is responsible for obtaining appropriate insurance, if desired. The Client acknowledges that during the performance of the Services samples may be altered, lost, damaged or destroyed and the Client releases ALS from any claim the Client may have for any loss or damage to the sample.
16. Environmental. The Client must comply with all applicable environmental legislation, including labeling all hazardous samples to comply with WHMIS and TDG regulations, and must provide appropriate Safety Data Sheets (previously referred to as MSDS) that include the nature of the hazard and a contact name and phone number to call for information. The Client will indemnify ALS for all loss or damages, including any fine or cost of complying with an order of any government authority, resulting from the Client's breach of this paragraph.
17. Hazardous Materials Disposal. ALS may return, at the Client's cost, hazardous material to the Client for disposal.
18. Hazardous Materials Surcharge. ALS may apply an additional surcharge for handling of hazardous samples or samples with Naturally Occurring Radioactive Materials (NORM), H2S, CN, etc.
19. Sample Containers. ALS may ship sample containers to the Client's location by the most cost effective means using ALS preferred courier suppliers, within the specified project timeline.
20. Additional Charges. ALS may charge the Client (a) its cost for emergency bottle shipments and shipments to and from a remote site, and (b) where pick up and delivery services are provided, subject in each instance to a minimum charge of \$25.00.
21. Re-Tests. ALS reserves the right to re-test any samples that remain in its possession. Re-tests requested by the Client may be charged.
22. Waiver. The Client is responsible for making any assessment regarding the suitability of the Services and the intended results for the Client's purposes and waives any claims against ALS it may have as a result of the interpretation of the results. The Client shall indemnify ALS for all claims made by any third party against ALS in respect of all losses however arising from the performance of the Services or the use of any report provided in the performance of the Services.
23. Limitation of Liability. In no event shall ALS be liable for any consequential, indirect, incidental, special, exemplary or punitive damages, whether foreseeable or unforeseeable, (including claims for loss of profits or revenue or losses caused by stoppage of other work or impairment of other assets) incurred by the Client arising out of breach or failure of express or implied warranty, breach of contract, breach of warranty, misrepresentation, negligence, strict liability in tort or otherwise. In any event, the liability of ALS to the Client shall be limited to the cost of testing the sample as requested in the chain of custody form under which the sample was originally deposited. For the purposes of this paragraph and paragraphs 8, 15, 16, 22 and 24, as the applicable, "ALS" includes without limitation its directors, officers, employees and affiliates and the "Client" includes without limitation any third party that may have a claim against ALS through the Client.
24. Notice of Liability. Notwithstanding paragraph 23, ALS shall not be liable to the Client unless the Client provides notice in writing to ALS of such loss or damage, together with full particulars thereof, within 30 days of the Client's receipt of the report of the analysis of the sample giving rise to such liability. The provisions of this paragraph allocate the risk under the Agreement between the Client and ALS, and the fees to be paid by the Client to ALS reflect this allocation of risks and the limitations of liability in this Agreement.
25. Entire Agreement. The Agreement is the entire agreement between the parties and supersedes and takes precedence over any terms and conditions contained in any documentation provided by the Client. ALS's execution of any subsequent documentation from the Client only acknowledges receipt and not acceptance of any terms or conditions therein. If there is a conflict between these terms and conditions and any other Agreement document, these terms and conditions prevail.
26. Term. Providing the first batch of samples to which this tender refers is submitted within three months of the starting date of this quotation, the following prices, terms and conditions will remain firm until the closing date. This offer and terms and conditions will automatically lapse if the offer has not been accepted and samples not delivered to ALS within the Closing Date.
27. Termination. (a) Either party may terminate this Agreement for any reason by giving the other party thirty (30) days written notice (Notice Period). (b) If the Agreement is terminated pursuant to clause (a), then the Client must pay ALS for all Services performed up to the expiry of the Notice Period.



Cash Clients
ATTN: Henry Wong
DXB Projects
Toronto ON

Date Received: 23-SEP-17
Report Date: 16-OCT-17 09:55 (MT)
Version: FINAL

Client Phone: 416-575-8064

Certificate of Analysis

Lab Work Order #: L1996471
Project P.O. #: NOT SUBMITTED
Job Reference: JERICO MINE SITE STABILIZATION
C of C Numbers: 14-20170922
Legal Site Desc:

Comments:

30-SEP-2017 Prelim Report

Rick Zolkiewski
General Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 314 Old Airport Road, Unit 116, Yellowknife, NT X1A 3T3 Canada | Phone: +1 867 873 5593 |
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID				
	L1996471-1 WATER 22-SEP-17 16:00 OPEN PIT	L1996471-2 WATER 22-SEP-17 16:00 CONTACT WATER			
Grouping	Analyte				
WATER					
Physical Tests	pH (pH)	7.93	7.22		
	Total Suspended Solids (mg/L)	<3.0	41.8		
	Total Dissolved Solids (mg/L)	96			
Anions and Nutrients	Ammonia, Total (as N) (mg/L)	<0.050			
	Chloride (Cl) (mg/L)	4.95			
	Nitrate and Nitrite (as N) (mg/L)	5.90			
	Nitrate (as N) (mg/L)	5.87			
	Nitrite (as N) (mg/L)	0.026			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0279			
	Antimony (Sb)-Total (mg/L)	0.00021			
	Arsenic (As)-Total (mg/L)	0.00052			
	Barium (Ba)-Total (mg/L)	0.0289			
	Beryllium (Be)-Total (mg/L)	<0.00010			
	Bismuth (Bi)-Total (mg/L)	<0.000050			
	Boron (B)-Total (mg/L)	0.028			
	Cadmium (Cd)-Total (mg/L)	<0.0000050			
	Calcium (Ca)-Total (mg/L)	15.5			
	Cesium (Cs)-Total (mg/L)	0.000085			
	Chromium (Cr)-Total (mg/L)	<0.00010			
	Cobalt (Co)-Total (mg/L)	<0.00010			
	Copper (Cu)-Total (mg/L)	0.00210			
	Iron (Fe)-Total (mg/L)	0.017			
	Lead (Pb)-Total (mg/L)	<0.000050			
	Lithium (Li)-Total (mg/L)	0.0022			
	Magnesium (Mg)-Total (mg/L)	6.79			
	Manganese (Mn)-Total (mg/L)	0.00172			
	Molybdenum (Mo)-Total (mg/L)	0.00502			
	Nickel (Ni)-Total (mg/L)	0.00097			
	Phosphorus (P)-Total (mg/L)	<0.050			
	Potassium (K)-Total (mg/L)	3.34			
	Rubidium (Rb)-Total (mg/L)	0.00617			
	Selenium (Se)-Total (mg/L)	0.000311			
	Silicon (Si)-Total (mg/L)	1.24			
	Silver (Ag)-Total (mg/L)	<0.000010			
	Sodium (Na)-Total (mg/L)	5.80			
	Strontium (Sr)-Total (mg/L)	0.184			
	Sulfur (S)-Total (mg/L)	3.66			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1996471-1 WATER 22-SEP-17 16:00 OPEN PIT	L1996471-2 WATER 22-SEP-17 16:00 CONTACT WATER		
Grouping	Analyte				
WATER					
Total Metals	Tellurium (Te)-Total (mg/L)	<0.00020			
	Thallium (Tl)-Total (mg/L)	<0.000010			
	Thorium (Th)-Total (mg/L)	<0.00010			
	Tin (Sn)-Total (mg/L)	<0.00010			
	Titanium (Ti)-Total (mg/L)	0.00062			
	Tungsten (W)-Total (mg/L)	0.00034			
	Uranium (U)-Total (mg/L)	0.0940			
	Vanadium (V)-Total (mg/L)	0.00110			
	Zinc (Zn)-Total (mg/L)	<0.0030			
	Zirconium (Zr)-Total (mg/L)	<0.000060			
Dissolved Metals	Dissolved Metals Filtration Location	FIELD			
	Aluminum (Al)-Dissolved (mg/L)	0.0266			
	Antimony (Sb)-Dissolved (mg/L)	0.00019			
	Arsenic (As)-Dissolved (mg/L)	0.00052			
	Barium (Ba)-Dissolved (mg/L)	0.0289			
	Beryllium (Be)-Dissolved (mg/L)	<0.00010			
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050			
	Boron (B)-Dissolved (mg/L)	0.028			
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050			
	Calcium (Ca)-Dissolved (mg/L)	15.4			
	Cesium (Cs)-Dissolved (mg/L)	0.000082			
	Chromium (Cr)-Dissolved (mg/L)	<0.00010			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	0.00213			
	Iron (Fe)-Dissolved (mg/L)	0.011			
	Lead (Pb)-Dissolved (mg/L)	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	0.0022			
	Magnesium (Mg)-Dissolved (mg/L)	7.21			
	Manganese (Mn)-Dissolved (mg/L)	0.00167			
	Molybdenum (Mo)-Dissolved (mg/L)	0.00460			
	Nickel (Ni)-Dissolved (mg/L)	0.00095			
	Phosphorus (P)-Dissolved (mg/L)	<0.050			
	Potassium (K)-Dissolved (mg/L)	3.43			
	Rubidium (Rb)-Dissolved (mg/L)	0.00626			
	Selenium (Se)-Dissolved (mg/L)	0.000291			
	Silicon (Si)-Dissolved (mg/L)	1.30			
	Silver (Ag)-Dissolved (mg/L)	<0.000010			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1996471-1 WATER 22-SEP-17 16:00 OPEN PIT	L1996471-2 WATER 22-SEP-17 16:00 CONTACT WATER		
Grouping	Analyte				
WATER					
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	6.19			
	Strontium (Sr)-Dissolved (mg/L)	0.187			
	Sulfur (S)-Dissolved (mg/L)	3.81			
	Tellurium (Te)-Dissolved (mg/L)	<0.00020			
	Thallium (Tl)-Dissolved (mg/L)	<0.000010			
	Thorium (Th)-Dissolved (mg/L)	<0.00010			
	Tin (Sn)-Dissolved (mg/L)	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	0.00053			
	Tungsten (W)-Dissolved (mg/L)	0.00032			
	Uranium (U)-Dissolved (mg/L)	0.0896			
	Vanadium (V)-Dissolved (mg/L)	0.00111			
	Zinc (Zn)-Dissolved (mg/L)	0.0016			
	Zirconium (Zr)-Dissolved (mg/L)	0.000061			
Aggregate Organics	Oil and Grease (mg/L)	<5.0	95.8		
Hydrocarbons	TEH (C11-C30) (mg/L)		211		
	F2: (C10-C16) (mg/L)	<0.10	50.4		
	F3: (C16-C34) (mg/L)	<0.25	168		
	F4: (C34-C50) (mg/L)	<0.25	11.5		
	Surrogate: 2-Bromobenzotrifluoride (%)	83.0	113.9		
Glycols	Diethylene Glycol (mg/L)	<5.0	106 ^{DLA}		
	Ethylene Glycol (mg/L)	<10	11100 ^{DLHC}		
	Propylene Glycol (mg/L)	<10	1060 ^{DLHC}		
	Triethylene Glycol (mg/L)	<10	<100 ^{DLA}		

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Chloride (Cl)	MS-B	L1996471-1
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1996471-1
Matrix Spike	Boron (B)-Dissolved	MS-B	L1996471-1
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1996471-1
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1996471-1
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1996471-1
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1996471-1
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1996471-1
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1996471-1
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1996471-1

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL-IC-N-ED	Water	Chloride in Water by IC Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	EPA 300.1 (mod)
F2-4-ME-FID-CL	Water	CCME F2-4 Hydrocarbons Water samples are spiked with 2-BBTF surrogate, and extracted by reciprocal action shaker for 30 minutes using a single micro-extraction with hexane. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil, Tier 1 Method, CCME, December 2001.	EPA 3511/ CCME PHC CWS GC-FID
GLYCOL-CL	Water	Glycol Screen This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 8015D and 3550C, published by the United States Environmental Protection Agency (EPA). Water samples are bath ultra-sonicated and analyzed by GC-FID direct aqueous injection.	EPA 3550C, EPA 8015D
MET-D-CCMS-ED	Water	Dissolved Metals in Water by CRC ICPMS Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.	APHA 3030B/6020A (mod)
MET-T-CCMS-ED	Water	Total Metals in Water by CRC ICPMS Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.	EPA 200.2/6020A (mod)
NH3-COL-ED	Water	Ammonia in Water by Colour This analysis is carried out using procedures adapted from APHA Method 4500 NH3 "NITROGEN (AMMONIA)". Ammonia is determined using the automated phenate colourimetric method.	APHA 4500 NH3-NITROGEN (AMMONIA)
NO2+NO3-CALC-ED	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-N-ED	Water	Nitrite in Water by IC Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	EPA 300.1 (mod)
NO3-IC-N-ED	Water	Nitrate in Water by IC Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	EPA 300.1 (mod)
OGG-CL	Water	Oil and Grease-Gravimetric This technique employs a hexane extraction of a water material, followed by filtration of the decanted solvent into an evaporation container. The solvent is evaporated in a pre-weighed dish, and the oil content is calculated from the weight of oil and grease recovered	EPA 1664 Rev. B
PH-ED	Water	pH All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)	APHA 4500 H-Electrode
SOLIDS-TDS-ED	Water	Total Dissolved Solids	APHA 2540 C

Reference Information

Gravimetric determination of solids in waters by filtration and evaporating filtrate to dryness at 180 degrees Celsius.

SOLIDS-TOTSUS-ED Water Total Suspended Solids APHA 2540 D-Gravimetric

Gravimetric determination of solids in waters by filtration and drying filter at 104 degrees Celsius.

TEH-ME-FID-CL Water TEH (C11-C30) EPA 3511/ EPA 8000 GC-FID

Water samples are spiked with 2-BBTF surrogate, and extracted by reciprocal action shaker for 30 minutes using a single micro-extraction with hexane. After extraction, the hexane layer is drawn off and analyzed on a gas chromatograph equipped with a flame ionization detector.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA
CL	ALS ENVIRONMENTAL - CALGARY, ALBERTA, CANADA

Chain of Custody Numbers:

14-20170922

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 1 of 10

Client: Cash Clients
 DXB Projects
 Toronto ON
 Contact: Henry Wong

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-ED		Water						
Batch	R3839138							
WG2625209-11	LCS							
Chloride (Cl)			98.0		%		90-110	26-SEP-17
WG2625209-13	LCS							
Chloride (Cl)			98.1		%		90-110	26-SEP-17
WG2625209-2	LCS							
Chloride (Cl)			98.3		%		90-110	26-SEP-17
WG2625209-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-SEP-17
WG2625209-12	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-SEP-17
WG2625209-14	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-SEP-17
F2-4-ME-FID-CL		Water						
Batch	R3841835							
WG2628823-2	LCS							
F2: (C10-C16)			90.0		%		70-130	30-SEP-17
F3: (C16-C34)			91.0		%		70-130	30-SEP-17
F4: (C34-C50)			71.0		%		70-130	30-SEP-17
WG2628823-1	MB							
F2: (C10-C16)			<0.10		mg/L		0.1	30-SEP-17
F3: (C16-C34)			<0.25		mg/L		0.25	30-SEP-17
F4: (C34-C50)			<0.25		mg/L		0.25	30-SEP-17
Surrogate: 2-Bromobenzotrifluoride			73.9		%		60-140	30-SEP-17
GLYCOL-CL		Water						
Batch	R3841939							
WG2629397-2	DUP	L1996471-1						
Diethylene Glycol		<5.0	8.2	RPD-NA	mg/L	N/A	30	30-SEP-17
Ethylene Glycol		<10	<10	RPD-NA	mg/L	N/A	30	30-SEP-17
Propylene Glycol		<10	<10	RPD-NA	mg/L	N/A	30	30-SEP-17
Triethylene Glycol		<10	<10	RPD-NA	mg/L	N/A	30	30-SEP-17
WG2629397-3	LCS							
Diethylene Glycol			91.3		%		70-130	30-SEP-17
Ethylene Glycol			89.0		%		70-130	30-SEP-17
Propylene Glycol			90.9		%		70-130	30-SEP-17
Triethylene Glycol			91.3		%		70-130	30-SEP-17
WG2629397-1	MB							
Diethylene Glycol			<5.0		mg/L		5	30-SEP-17



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 2 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
GLYCOL-CL		Water						
Batch	R3841939							
WG2629397-1	MB							
Ethylene Glycol			<10		mg/L		10	30-SEP-17
Propylene Glycol			<10		mg/L		10	30-SEP-17
Triethylene Glycol			<10		mg/L		10	30-SEP-17
MET-D-CCMS-ED		Water						
Batch	R3839402							
WG2626597-2	LCS							
Aluminum (Al)-Dissolved			107.2		%		80-120	28-SEP-17
Antimony (Sb)-Dissolved			95.7		%		80-120	28-SEP-17
Arsenic (As)-Dissolved			103.7		%		80-120	28-SEP-17
Barium (Ba)-Dissolved			101.2		%		80-120	28-SEP-17
Beryllium (Be)-Dissolved			98.2		%		80-120	28-SEP-17
Bismuth (Bi)-Dissolved			102.7		%		80-120	28-SEP-17
Boron (B)-Dissolved			93.5		%		80-120	28-SEP-17
Cadmium (Cd)-Dissolved			101.8		%		80-120	28-SEP-17
Calcium (Ca)-Dissolved			100.5		%		80-120	28-SEP-17
Cesium (Cs)-Dissolved			99.6		%		80-120	28-SEP-17
Chromium (Cr)-Dissolved			102.9		%		80-120	28-SEP-17
Cobalt (Co)-Dissolved			104.2		%		80-120	28-SEP-17
Copper (Cu)-Dissolved			102.4		%		80-120	28-SEP-17
Iron (Fe)-Dissolved			95.4		%		80-120	28-SEP-17
Lead (Pb)-Dissolved			101.5		%		80-120	28-SEP-17
Lithium (Li)-Dissolved			97.5		%		80-120	28-SEP-17
Magnesium (Mg)-Dissolved			108.4		%		80-120	28-SEP-17
Manganese (Mn)-Dissolved			104.2		%		80-120	28-SEP-17
Molybdenum (Mo)-Dissolved			101.3		%		80-120	28-SEP-17
Nickel (Ni)-Dissolved			102.3		%		80-120	28-SEP-17
Phosphorus (P)-Dissolved			127.9		%		70-130	28-SEP-17
Potassium (K)-Dissolved			106.4		%		80-120	28-SEP-17
Rubidium (Rb)-Dissolved			104.7		%		80-120	28-SEP-17
Selenium (Se)-Dissolved			103.0		%		80-120	28-SEP-17
Silicon (Si)-Dissolved			122.7		%		60-140	28-SEP-17
Silver (Ag)-Dissolved			99.4		%		80-120	28-SEP-17
Sodium (Na)-Dissolved			100.6		%		80-120	28-SEP-17
Strontium (Sr)-Dissolved			100.1		%		80-120	28-SEP-17



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 3 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-ED								
	Water							
Batch	R3839402							
WG2626597-2	LCS							
Sulfur (S)-Dissolved			104.4		%		80-120	28-SEP-17
Tellurium (Te)-Dissolved			98.8		%		80-120	28-SEP-17
Thallium (Tl)-Dissolved			102.6		%		80-120	28-SEP-17
Thorium (Th)-Dissolved			107.0		%		80-120	28-SEP-17
Tin (Sn)-Dissolved			99.1		%		80-120	28-SEP-17
Titanium (Ti)-Dissolved			99.8		%		80-120	28-SEP-17
Tungsten (W)-Dissolved			102.8		%		80-120	28-SEP-17
Uranium (U)-Dissolved			103.8		%		80-120	28-SEP-17
Vanadium (V)-Dissolved			104.4		%		80-120	28-SEP-17
Zinc (Zn)-Dissolved			98.2		%		80-120	28-SEP-17
Zirconium (Zr)-Dissolved			96.5		%		80-120	28-SEP-17
WG2626597-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	28-SEP-17
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-17
Boron (B)-Dissolved			<0.010		mg/L		0.01	28-SEP-17
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	28-SEP-17
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	28-SEP-17
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	28-SEP-17
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	28-SEP-17
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	28-SEP-17
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-17
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	28-SEP-17
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	28-SEP-17
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-17
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	28-SEP-17
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	28-SEP-17
Potassium (K)-Dissolved			<0.050		mg/L		0.05	28-SEP-17
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	28-SEP-17



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 4 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-ED		Water						
Batch	R3839402							
WG2626597-1	MB							
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-17
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	28-SEP-17
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	28-SEP-17
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	28-SEP-17
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	28-SEP-17
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	28-SEP-17
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	28-SEP-17
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	28-SEP-17
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	28-SEP-17
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	28-SEP-17
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	28-SEP-17
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	28-SEP-17
Zirconium (Zr)-Dissolved			<0.000060		mg/L		0.00006	28-SEP-17
MET-T-CCMS-ED		Water						
Batch	R3853853							
WG2636408-2	LCS							
Aluminum (Al)-Total			103.4		%		70-130	13-OCT-17
Antimony (Sb)-Total			97.6		%		70-130	13-OCT-17
Arsenic (As)-Total			101.0		%		70-130	13-OCT-17
Barium (Ba)-Total			104.2		%		70-130	13-OCT-17
Beryllium (Be)-Total			101.5		%		70-130	13-OCT-17
Bismuth (Bi)-Total			101.3		%		70-130	13-OCT-17
Boron (B)-Total			100.0		%		70-130	13-OCT-17
Cadmium (Cd)-Total			104.0		%		70-130	13-OCT-17
Calcium (Ca)-Total			100.2		%		70-130	13-OCT-17
Cesium (Cs)-Total			100.1		%		70-130	13-OCT-17
Chromium (Cr)-Total			98.0		%		70-130	13-OCT-17
Cobalt (Co)-Total			99.6		%		70-130	13-OCT-17
Copper (Cu)-Total			98.5		%		70-130	13-OCT-17
Iron (Fe)-Total			103.0		%		70-130	13-OCT-17
Lead (Pb)-Total			103.0		%		70-130	13-OCT-17
Magnesium (Mg)-Total			102.0		%		70-130	13-OCT-17



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 5 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED		Water						
Batch	R3853853							
WG2636408-2	LCS							
Manganese (Mn)-Total			99.3		%		70-130	13-OCT-17
Molybdenum (Mo)-Total			102.5		%		70-130	13-OCT-17
Nickel (Ni)-Total			100.4		%		70-130	13-OCT-17
Phosphorus (P)-Total			105.8		%		70-130	13-OCT-17
Potassium (K)-Total			99.6		%		70-130	13-OCT-17
Rubidium (Rb)-Total			98.6		%		70-130	13-OCT-17
Selenium (Se)-Total			100.8		%		70-130	13-OCT-17
Silicon (Si)-Total			115.6		%		70-130	13-OCT-17
Silver (Ag)-Total			100.7		%		70-130	13-OCT-17
Sodium (Na)-Total			99.7		%		70-130	13-OCT-17
Strontium (Sr)-Total			99.9		%		70-130	13-OCT-17
Sulfur (S)-Total			102.1		%		70-130	13-OCT-17
Tellurium (Te)-Total			103.4		%		70-130	13-OCT-17
Thallium (Tl)-Total			104.2		%		70-130	13-OCT-17
Thorium (Th)-Total			103.0		%		70-130	13-OCT-17
Tin (Sn)-Total			99.7		%		70-130	13-OCT-17
Titanium (Ti)-Total			93.7		%		70-130	13-OCT-17
Tungsten (W)-Total			102.1		%		70-130	13-OCT-17
Uranium (U)-Total			101.4		%		70-130	13-OCT-17
Vanadium (V)-Total			103.4		%		70-130	13-OCT-17
Zinc (Zn)-Total			93.9		%		70-130	13-OCT-17
Zirconium (Zr)-Total			98.7		%		70-130	13-OCT-17
WG2636408-1	MB							
Aluminum (Al)-Total			<0.0030		mg/L		0.003	13-OCT-17
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Arsenic (As)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Barium (Ba)-Total			<0.000050		mg/L		0.00005	13-OCT-17
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	13-OCT-17
Boron (B)-Total			<0.010		mg/L		0.01	13-OCT-17
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	13-OCT-17
Calcium (Ca)-Total			<0.050		mg/L		0.05	13-OCT-17
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	13-OCT-17
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	13-OCT-17



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 6 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-ED		Water						
Batch	R3853853							
WG2636408-1	MB							
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Copper (Cu)-Total			<0.00050		mg/L		0.0005	13-OCT-17
Iron (Fe)-Total			<0.010		mg/L		0.01	13-OCT-17
Lead (Pb)-Total			<0.000050		mg/L		0.00005	13-OCT-17
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	13-OCT-17
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	13-OCT-17
Phosphorus (P)-Total			<0.050		mg/L		0.05	13-OCT-17
Potassium (K)-Total			<0.050		mg/L		0.05	13-OCT-17
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	13-OCT-17
Selenium (Se)-Total			<0.000050		mg/L		0.00005	13-OCT-17
Silicon (Si)-Total			<0.10		mg/L		0.1	13-OCT-17
Silver (Ag)-Total			<0.000010		mg/L		0.00001	13-OCT-17
Sodium (Na)-Total			<0.050		mg/L		0.05	13-OCT-17
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	13-OCT-17
Sulfur (S)-Total			<0.50		mg/L		0.5	13-OCT-17
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	13-OCT-17
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	13-OCT-17
Thorium (Th)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Tin (Sn)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	13-OCT-17
Tungsten (W)-Total			<0.00010		mg/L		0.0001	13-OCT-17
Uranium (U)-Total			<0.000010		mg/L		0.00001	13-OCT-17
Vanadium (V)-Total			<0.00050		mg/L		0.0005	13-OCT-17
Zinc (Zn)-Total			<0.0030		mg/L		0.003	13-OCT-17
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	13-OCT-17
NH3-COL-ED		Water						
Batch	R3840946							
WG2628442-2	LCS							
Ammonia, Total (as N)			96.2		%		85-115	29-SEP-17
WG2628442-1	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	29-SEP-17
NO2-IC-N-ED		Water						

Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 7 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-N-ED								
	Water							
Batch	R3839138							
WG2625209-11	LCS							
Nitrite (as N)			99.6		%		90-110	26-SEP-17
WG2625209-13	LCS							
Nitrite (as N)			99.7		%		90-110	26-SEP-17
WG2625209-2	LCS							
Nitrite (as N)			100.5		%		90-110	26-SEP-17
WG2625209-1	MB							
Nitrite (as N)			<0.010		mg/L		0.01	26-SEP-17
WG2625209-12	MB							
Nitrite (as N)			<0.010		mg/L		0.01	26-SEP-17
WG2625209-14	MB							
Nitrite (as N)			<0.010		mg/L		0.01	26-SEP-17
NO3-IC-N-ED								
	Water							
Batch	R3839138							
WG2625209-11	LCS							
Nitrate (as N)			97.4		%		90-110	26-SEP-17
WG2625209-13	LCS							
Nitrate (as N)			98.1		%		90-110	26-SEP-17
WG2625209-2	LCS							
Nitrate (as N)			97.2		%		90-110	26-SEP-17
WG2625209-1	MB							
Nitrate (as N)			<0.020		mg/L		0.02	26-SEP-17
WG2625209-12	MB							
Nitrate (as N)			<0.020		mg/L		0.02	26-SEP-17
WG2625209-14	MB							
Nitrate (as N)			<0.020		mg/L		0.02	26-SEP-17
OGG-CL								
	Water							
Batch	R3841625							
WG2628228-6	LCS							
Oil and Grease			80.8		%		70-130	29-SEP-17
WG2628228-5	MB							
Oil and Grease			<5.0		mg/L		5	29-SEP-17
PH-ED								
	Water							
Batch	R3838171							
WG2625174-11	LCS	ED-PH6						
pH			6.03		pH		5.8-6.2	26-SEP-17
WG2625174-16	LCS	ED-PH6						
pH			6.02		pH		5.8-6.2	26-SEP-17



Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 8 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-ED								
Batch	R3838171							
WG2625174-3	LCS	ED-PH6						
pH			6.05		pH		5.8-6.2	26-SEP-17
SOLIDS-TDS-ED								
Batch	R3840911							
WG2627108-3	DUP	L1996471-1						
Total Dissolved Solids		96	100		mg/L	4.1	20	28-SEP-17
WG2627108-2	LCS							
Total Dissolved Solids			96.8		%		85-115	28-SEP-17
WG2627108-1	MB							
Total Dissolved Solids			<10		mg/L		10	28-SEP-17
SOLIDS-TOTSUS-ED								
Batch	R3840257							
WG2627063-3	DUP	L1996471-1						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	20	28-SEP-17
WG2627063-2	LCS							
Total Suspended Solids			101.4		%		85-115	28-SEP-17
WG2627063-1	MB							
Total Suspended Solids			<3.0		mg/L		3	28-SEP-17
TEH-ME-FID-CL								
Batch	R3841835							
WG2627715-1	MB							
TEH (C11-C30)			<0.25		mg/L		0.25	01-OCT-17
Surrogate: 2-Bromobenzotrifluoride			99.0		%		60-140	01-OCT-17
WG2627715-3	MB							
TEH (C11-C30)			<0.25		mg/L		0.25	30-SEP-17
Surrogate: 2-Bromobenzotrifluoride			73.9		%		60-140	30-SEP-17

Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 9 of 10

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1996471

Report Date: 16-OCT-17

Page 10 of 10

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH	1	22-SEP-17 16:00	26-SEP-17 09:00	0.25	89	hours	EHTR-FM
	2	22-SEP-17 16:00	26-SEP-17 09:00	0.25	89	hours	EHTR-FM
Anions and Nutrients							
Nitrate in Water by IC	1	22-SEP-17 16:00	26-SEP-17 08:00	3	4	days	EHT
	1	22-SEP-17 16:00	26-SEP-17 08:00	3	4	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1996471 were received on 23-SEP-17 11:50.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

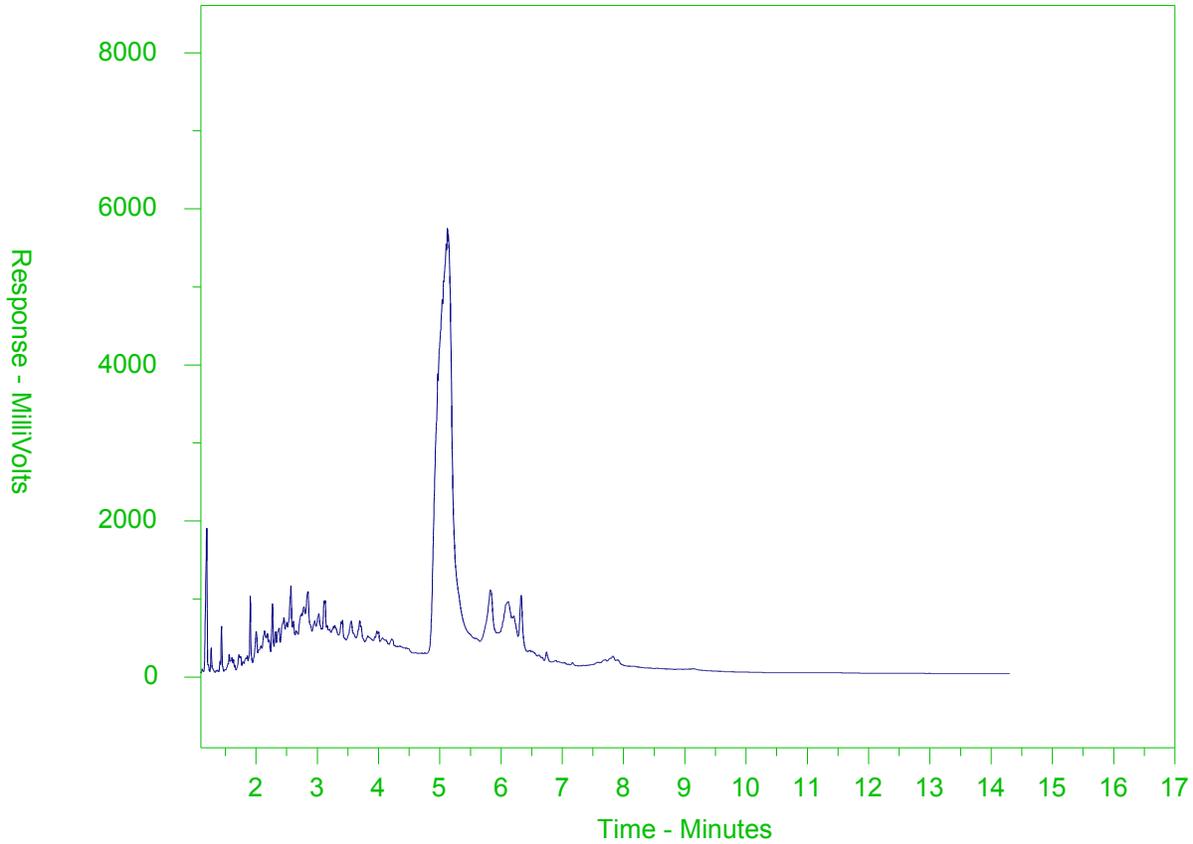
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1996471-2
 Client Sample ID: CONTACT WATER



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

Report To		Report Format / Distribution			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)												
Company: DXB Projects		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			R <input type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)												
Contact: Henry Wong		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT												
Address:		<input type="checkbox"/> Criteria on Report - provide details below if box checked			E <input checked="" type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT												
Phone: 416.575.8064		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge												
		Email 1 or Fax henry.wong@dxbprojects.ca			Specify Date Required for E2,E or P:												
		Email 2			Analysis Request												
Invoice To		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below												
Same as Report To <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX															
Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Email 1 or Fax dave.bynski@dxbprojects.ca															
Company: DXB Projects		Email 2 henry.wong@dxbprojects.ca															
Contact: Dave Bynski																	
Project Information		Oil and Gas Required Fields (client use)															
ALS Quote #: Q62054		Approver ID:		Cost Center:													
Job #: Jericho Mine Site Stabilization		GL Account:		Routing Code:													
PO / AFE: TA8		Activity Code:		Location:													
LSD:																	
ALS Lab Work Order # (lab use only)		ALS Contact: Rick Z.		Sampler: Henry W.													
L1996477																	
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	pH, TSS	TDS, BOD	Fecal Coliforms	Chloride	Total Metals	Dissolved Metals	Ammonia Nitrogen, Nitrate, Nitrite	CCME CWS F1, BTEX	CCME CWS F2-F4	Total Extractable Hydrocarbon	Oil and Grease	Glycols	Number of Containers
	OPEN PIT	22-Sep-17	16:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	
	CONTACT WATER	22-Sep-17	16:00	Water	E							E	E	E	E	E	
					NOT FILLED												
					No pres. required												
Drinking Water (DW) Samples¹ (client use)					Special Instructions / Specify Criteria to add on report (client Use)					SAMPLE CONDITION AS RECEIVED (lab use only)							
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No										Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>							
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No										Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>							
										Cooling Initiated <input type="checkbox"/>							
										INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
										4.5							
SHIPMENT RELEASE (client use)					INITIAL SHIPMENT RECEPTION (lab use only)					FINAL SHIPMENT RECEPTION (lab use only)							
Released by: <i>HL</i>		Date: 22 Sep 17	Time: 17:00	Received by: <i>AT</i>	Date: 23 Sep 17	Time: 11:50	Received by:				Date:		Time:				



Environmental Division

Sample Integrity Form

Date: 25-Sep-2017

Client: DXB

ALS Contact: Rick

COC #: 14-2017-0922

Phone #: 867 873 5593

Work Order #: 21996471

Please note the following observations that prevent your samples from being processed.
ALS is attempting to contact you for further instructions.

If our attempts fail, please contact us as soon as possible to ensure your analytical needs are met.

Observation

Details

<input type="checkbox"/>	Temperature < freezing point	actual temp. (breakdown by cooler):
<input type="checkbox"/>	Temperature ≥ 10 Celsius	actual temp. (breakdown by cooler):
<input type="checkbox"/>	Containers broken in transit	details:
<input type="checkbox"/>	Sample integrity compromised	details:
<input type="checkbox"/>	Regulatory non-compliance	details:
<input type="checkbox"/>	No COC with shipment	details:
<input type="checkbox"/>	Discrepancy between COC and label	details:
<input type="checkbox"/>	COC incomplete or unclear	details:
<input type="checkbox"/>	Container incompatible with test	details: <u>Btex F1 collected in a Methanol vial</u> <u>could not send bottles for Btex F1</u>
<input type="checkbox"/>	Volume is insufficient for test	details:
<input type="checkbox"/>	Preservation incompatible with test	details:
<input type="checkbox"/>	No preservation	details:
<input type="checkbox"/>	Other observation	details: <u>Preserved total Nit3 in the lab on the 25 Sep-17</u> <u>no bottles for FEIT w/c provided for open</u> <u>pi-</u>

Additional Information (list all affected sample portions):

Date	November 2018
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**APPENDIX D:
OPERATION, MAINTENANCE & SURVEILLANCE (OMS) PLAN
JERICHO DIAMOND MINE - DRAFT**

Indigenous and Northern Affairs Canada

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Jericho Diamond Mine Site

May 28, 2018



OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Jericho Diamond Mine Site

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CONTENTS

Acronyms and Abbreviations.....	iii
Executive Summary.....	1
1 INTRODUCTION.....	1-1
1.1 Objectives of the OMS Plan.....	1-1
1.2 Scope of OMS Activities at the Site.....	1-1
1.3 OMS Plan Assumptions.....	1-2
2 Site Background.....	2-2
2.1 List of Documents.....	2-2
2.2 Site Identification.....	2-4
2.3 Site Description.....	2-4
2.3.1 Regional Setting.....	2-4
2.3.2 Physical Site.....	2-5
2.3.3 Topography/Elevation.....	2-6
2.3.4 Climate and Weather.....	2-6
2.3.5 Geologic Setting.....	2-6
3 Summary of Remedial/Risk Management Activities.....	3-6
3.1 Risk Drivers.....	3-6
3.2 Summary of Remedial Objectives.....	3-7
3.3 Summary of Site Stabilization Approach.....	3-8
3.4 Site Conditions Once Site Stabilization Activities have been Executed.....	3-9
3.4.1 Summary of Residual Risks.....	3-9
4 Authority and Accountability.....	3-10
5 Operation and Maintenance Requirements.....	3-10
6 Surveillance Requirements.....	3-10
6.1 OMS Decision Criteria.....	3-10
6.2 Stability of Physical Features Requiring Visual Inspection.....	3-12
6.3 Long-term Monitoring Considerations.....	3-12
6.4 Frequency of Surveillance Activities.....	3-12
6.5 Contingency Plans.....	3-13

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

6.5.1 Pit Lake Water Level Reduction3-13

7 Regulatory Management.....7-13

8 Funding and Resource Requirements8-14

 8.1 Funding8-14

 8.2 Human Resources8-14

9 Information and Records Management9-15

10 Public Participation10-15

11 Cultural, Natural and Historical Preservation11-15

12 Concluding Statement.....12-15

13 References13-15

DRAFT

ACRONYMS AND ABBREVIATIONS

AST	Aboveground storage tank
BTEX	Benzene, toluene, ethylbenzene and xylenes
COC	Contaminant of concern
DFRP	Directory of Federal Real Property
ECCC	Environment and Climate Change Canada
FCSI	Federal Contaminated Sites Inventory
HWTA	Hazardous waste transfer area
IDEA	Interdepartmental Data Exchange Application
INAC	Indigenous and Northern Affairs Canada
IOL	Inuit Owned Lands
LTM	Long term monitoring
NWB	Nunavut Water Board
NWNSRTA	Nunavut Waters and Nunavut Surface Rights Tribunal Act
OMS	Operation, maintenance and surveillance
PAH	Polycyclic aromatic hydrocarbons
PHC	Petroleum hydrocarbon compound
PK	Processed kimberlite
PKCA	Processed kimberlite containment area
R/RM	Remediation/risk management

EXECUTIVE SUMMARY

The Board requires that an executive summary in both English and Inuktitut be provided for all plans, reports, or studies conducted under Jericho Mine Site Stabilization Project (Part B, item 1(m)).

DRAFT

1 INTRODUCTION

The Jericho Diamond Mine is located approximately 260 km southeast of Kugluktuk, Nunavut and 30 km north of the Lupin mine. It is located partially on Crown land and partially on Inuit Owned Land (IOL). The Jericho Diamond Mine opened in 2006 and was operated by Tahera Diamond Corporation until 2008. Shear Diamonds (Nunavut) Corp. took over the mine in 2010 and operated it under care and maintenance until September 2012. Indigenous and Northern Affairs Canada (INAC) has been responsible for the mine site since the spring of 2013. Stabilization activities occurred at the site in the summer of 2017 and will continue in 2018. Full remediation/risk management (R/RM) of the site has not yet been scheduled.

Arcadis Canada Inc. (Arcadis) was retained by INAC to prepare an Operation, Maintenance and Surveillance (OMS) Plan for the Jericho Mine site following stabilization activities, in accordance with the INAC Operation, Maintenance and Surveillance Guidance (Arcadis, 2018). Given that there will be no further R/RM activities for the foreseeable future, this OMS Plan will guide the management of the site in its current post-stabilization state.

1.1 Objectives of the OMS Plan

The objectives of this OMS Plan, in accordance with the INAC OMS Guidance, are as follows:

- Summarize site stabilization activities that have occurred at the Jericho Mine Site;
- Summarize surveillance activities that are planned for the Jericho Mine Site;
- Describe residual risks following implementation of the stabilization activities;
- Describe operation and maintenance activities required following stabilization activities to mitigate residual risks;
- Describe surveillance (i.e., long term monitoring, LTM) activities required at the site to mitigate residual risks; and
- Describe iterative process to assess and adapt OMS activities over time, as evidence gathers to support reductions or discontinuation of one or more OMS activities.

It is recognized that this plan will deviate to some extent from the INAC OMS Guidance, given that the site remains in an interim state, there is no Remedial Action Plan, and most of the activities and planning at the Jericho site were completed before the guidance document was issued (e.g., stabilization).

1.2 Scope of OMS Activities at the Site

The OMS activities described in this plan are those that should occur following stabilization of the site. If further R/RM activities do occur, this OMS Plan will need to be updated to account for changes to site condition. It should also be noted that this OMS Plan applies only to the Crown-owned portion of the Jericho site (i.e., same as it was for site stabilization). The IOL portion is not covered by this OMS Plan.

1.3 OMS Plan Assumptions

The OMS requirements outlined in this section are based on several assumptions, as follows:

1. There are no Species at Risk to consider. Environment Canada didn't indicate there was during previous Jericho Mine site reviews and only the Peregrine Falcon (Special Concern and low potential for exposure) was identified at this location.
2. That there is building deterioration over time, but no physical loss (i.e., structures blowing away).
3. There is a small risk of breaking and entering, but no injury is expected, and no one has been found to be or is expected to be swimming in the pitwater or drinking it. The Jericho Mines site is also at a remote location with limited access.
4. There is no need for OMS activities once pitwater overflows and has stabilized and uranium concentration is below CCME guidelines, which means no on-going pot hole filling or landfill maintenance given that human intrusion is not likely to occur.
5. The uranium concentration in pitwater is trending down and it is likely that monitoring may not be required post year 3 (i.e., to be confirmed during iterative review). If this happens, OMS activities will be limited to visual inspection until pitwater overflow has stabilized.
6. No appreciable loss of PHC to groundwater expected, and leachate that is generated does not pose a significant risk to potential human and ecological receptors (i.e., few biota, no humans).
7. The landfill liner was originally installed to mitigate against infiltration but is not needed anymore. If deterioration is noted during visual inspection, replacement of landfill liner or other mitigation should only be considered if site visits are to continue (i.e., poses risk to worker while on site).
8. IMPORTANT ASSUMPTION: Currently, there is a residual risk due to design inconsistencies – road adjacent to pit washout. It is assumed that this risk will be mitigated in the Summer of 2018, and once complete, there will be no further residual risk. This OMS Plan has assumed that this activity has occurred.

2 SITE BACKGROUND

2.1 List of Documents

Table 1 lists all of the documents that have been prepared for the Jericho site and where they are archived. This information will be useful when completing the Site Closure Tool.

Table 1 List of Documents

Document #	Report Title	Author	Date	Archive Location	Internal Document Identifier#
1	Jericho Project Mine Reclamation Plan	Tahera Diamond Corporation	January 2003		
2	Technical Memorandum B, Supplemental Permafrost Characterization, Jericho	SRK Consulting	October 2003		

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Document #	Report Title	Author	Date	Archive Location	Internal Document Identifier#
	Project, Nunavut				
3	Technical Memorandum C, Supplemental Climate and Hydrology, Jericho Project, Nunavut	SRK Consulting	October 2003		
4	Technical Memorandum H, Supplemental Geochemistry, Jericho Project, Nunavut	SRK Consulting	October 2003		
5	Jericho Project, Long Lake Divider Dyke, Design Report	EBA Engineering Consultants Ltd.	June 2005		
6	Jericho Project, West Dam, Design Report	EBA Engineering Consultants Ltd.	September 2005		
7	Jericho Project, Processed Kimberlite Management Plan	EBA Engineering Consultants Ltd.	February 2006		
8	Closure and Reclamation Plan Update, Jericho Diamond Mine, Nunavut	Tahera Diamond Corporation	2007		
9	Dispersion Modelling of Air Emissions from the Jericho Diamond Mine Project Air Quality Update	AMEC Earth & Environmental	2007		
10	Jericho Project, North Dam, Design Report	EBA Engineering Consultants Ltd.	July 2007		
11	Interim Closure and Reclamation Plan, Jericho Diamond Mine, Nunavut	EBA (A Tetra Tech Company)	February 2011		
12	Jericho Site Reclamation – Crown-Owned Lands Only. Letter submitted to Shear Minerals Ltd.	Nuna Logistics	August 2011		
13	Gap Analysis and Work Plan, Jericho Mine Closure, NU	Tetra Tech EBA Inc.	August 2014		
14	Environmental Site Assessment: Materials Survey and Geotechnical Evaluation, Jericho Diamond Mine, NU	Tetra Tech EBA Inc.	December 2014		
15	Options Analysis Rev 02; Jericho Diamond Mine, Nunavut	Tetra Tech EBA Inc.	April 2015		

Document #	Report Title	Author	Date	Archive Location	Internal Document Identifier#
16	Specifications – Site Stabilization	DXB Projects	Undated		
17	Specifications Drawings – Site Stabilization	DXB Projects	January 2017		

2.2 Site Identification

Table 2 provides the information required for federal sites.

Table 2 Site Identification

Identifier	Description
FCSI No. of Contaminated Site	00025586
Exact Site Name as listed in IDEA	
Site Address (street address, municipality, province/territory)	Approximately 260 km southeast of Kugluktuk, Nunavut and 30 km north of the Lupin Mine in the Contwoyto-Itchen Region; Nunavut (see Figure 1)
Reporting Organization	INAC
Legal description or metres and bounds	
Approximate site area	
Centre of site coordinates (in lat/long or UTM)	65°59'50" N; 111°28'30" W

2.3 Site Description

2.3.1 Regional Setting

The Jericho Diamond Mine site is located approximately 260 km southeast of Kugluktuk, Nunavut and 30 km north of the Lupin mine in the Contwoyto-Itchen Region of Nunavut. It is located on both Crown land and IOL, as illustrated on Figure 1. The site is accessed by aircraft and the Tibbitt to Contwoyto winter road.

The site is located in an area of continuous permafrost. Permafrost is not located under large lakes, rivers and some streams. The active layer has been recorded as less than 1 m in organic soils and more than 3 m where well-drained, granular soil is present (SRK, 2003a).

Vegetation in the area has adapted to the short growing season characteristic of an arctic climate. Dwarf birch, willow, Labrador tea, other ericaceous shrubs and sedges dominate the landscape.

Surrounding lands are used for subsistence fishing, hunting and trapping (ESWG, 1996)

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN



Figure 1 Jericho Diamond Mine site

2.3.2 Physical Site

The Jericho Mine Site was opened in 2006 by Tahera Diamond Corporation (Tahera). The majority of the site development occurred during Tahera's operation of the site, from 2006 until 2008. Major buildings include the truck shop, camp facility and process plant. Other structures include the terminal building at the airstrip, storage sheds and shacks. These are illustrated on Figure 1. The emulsion plant is the only other building on the site; however, it is located on IOL.

Other site infrastructure/features include:

- An airstrip;
- Utilities (water intake line, pipelines and buried electrical lines);
- Processed kimberlite Containment Area, which includes the following structures:
 - East dam;
 - Southeast dam;
 - Saddle dam; and
 - North cofferdam;
- Jetty (water intake causeway);
- Roads;
- Pads and laydown areas;

- Equipment;
- Former C1 diversion (has been plugged);
- Waste rock piles;
- Coarse PK piles;
- Landfill; and
- Open pit.

2.3.3 Topography/Elevation

The topography in the main site area is generally flat, with gentle slopes to the north into Carat Lake. The elevation of the surface water in Carat Lake was recorded as 470 m above sea level (asl). Topographic high points within the main site area range between 500 and 550 m asl (SRK, 2003a).

Lands surrounding the former mine site range from gentle hills to hilly. Steep elevation gains are observed south and east of the main site area (AMEC, 2007).

2.3.4 Climate and Weather

The climate in the area is characterized by short, cool summers and long, cold winters. The closest Environment and Climate Change Canada (ECCC) weather station is at the Lupin Mine. Between 1981 and 2010, the average daily temperature was -10.9°C, with maximums occurring in July (11.5°C) and minimums in January (-29.9°C). The average annual precipitation for the same time period is calculated as 298.5 mm. Winds are generally from the north or northwest, with average monthly wind speeds ranging from 11 to 20 km/hr (TetraTech, 2015).

2.3.5 Geologic Setting

The former Jericho mine site is located in the Canadian Shield. The oldest rocks in the area are Archean tonalities and granodiorites that outcrop in the immediate vicinity of the Jericho Mine kimberlite pipe (Tetra Tech, 2015). Surface material consists of a thick layer of gravel and silty sand till with many cobbles and boulders, a result of deposition following the past glaciation. Glaciofluvial deposits, such as eskers, outwash deltas, kame deltas and supra-glacial deltas, consist of clean sand and gravel, and coarse boulder and block accumulations. Glaciolacustrine sediments consist of mainly of silt and sand.

3 SUMMARY OF REMEDIAL/RISK MANAGEMENT ACTIVITIES

3.1 Risk Drivers

Table 3 summarizes site concerns and issues which were addressed during site stabilization, or through activities described in this OMS plan.

Table 3 Summary of Risk Drivers prior to Site Remediation

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Category	Description
Summary of past activities	The site operated as a diamond mine between 2006 and 2008. Care and maintenance activities occurred at the site from 2010 to 2012. Site stabilization occurred in the summer of 2017.
Current activities and proposed development plan	Site stabilization activities were completed at the site during the summer of 2017. No further R/RM work is currently planned.
Areas of environmental concern	Eleven areas of PHC-impacted soil and three areas of metal-impacted soil were identified in the Remedial Options Analysis (Tetra Tech, 2015); elevated concentration of uranium have been identified in the open pit water and in the east sump water, adjacent to the processed kimberlite (PK) pile; elevated concentrations of copper and uranium have been identified in Carat Lake surface water but these have stabilized since 2008, when mining terminated (Tetra Tech, 2015); seep samples suggest that the waste rock pile may be influencing downgradient water quality; hazardous materials, such as fluorescent lights, compressed gas cylinders, organic material in ASTs, drums and containers, and batteries are present throughout the site;
Sources of contamination	ASTs, maintenance activities associated with truck shop, waste rock piles, the PKCA and its discharge
Affected media and contaminants of concern (COCs)	Soil COCs include BTEX, PHC F1 to F4, PAHs; surface water COCs include copper and uranium, seepage COC is uranium (Tetra Tech, 2015).
Approach to establishing remedial objectives: generic or site specific	A site-specific approach was selected, addressing each of the various components.
Physical risks	The buildings, structures and open pit poses a risk to wildlife and humans
Other	Non-hazardous waste, such as wood and metal debris, sea cans, vehicles, empty ASTs and drums and structures, is present at the site and requires consolidation and/or removal to clean up site; the PKCA has an overall annual net gain of water and requires management; the tailings in Cell A require covering to prevent water and wind erosion; culverts under roadways should be removed to prevent blockage and road overtopping;

3.2 Summary of Remedial Objectives

Table 4 summarizes the remedial objective for each component considered at the Jericho site.

Table 4 Summary of Remedial Objectives by Component

Component	Remedial Objective
Open pit	Establish open pit as lake at closure, ensure decreased trend of uranium concentrations in open pit water continues
C1 diversion	Divert C1 Diversion back to the open pit, to reduce filling time and restore original flow path
Waste rock	Leave as-is, as waste rock is located almost exclusively on IOL.

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Component	Remedial Objective
PKCA	Manage surface water level to prevent overflowing, stabilize exposed PK, manage long term stability of water retention structures
Containment berms	Reduce risk associated with contaminated soil that has been identified within most berm perimeters
Pads	Leave as-is
Roads	Remove culverts to prevent blockage and road overtopping
Airstrip	Leave as-is
Contaminated soils	Reduce risk associated with documented areas of metal and PHC-impacted soils
Hazardous materials	Reduce risk associated with hazardous materials on-site, and improve aesthetics

3.3 Summary of Site Stabilization Approach

Table 5 summarizes the remediation / risk management approach taken for each of the Jericho site components presented in Table 3-2 during site stabilization activities. This OMS plan, and this table, will need to be updated if there is a future decision to conduct further R/RM activities at the Jericho site.

Table 5 Summary of Site Stabilization Approach for each Component

Component	Remediation/Risk Management Approach
Open pit	Construction of the Open Pit outfall at the North side of the Open Pit.
C1 diversion	Construction of the excavated breach and plug across the C1 diversion into the Open Pit.
Intake jetty	No action taken
Waste rock	No action taken
Coarse processed kimberlite	No action taken
PKCA	Grading of tailings surface to promote natural drainage; construction of a PK cover over the PKCA tailings; dewatering of Cell C; construction of dam breaches for the West Dam and Divider Dyke A.
Containment berms	All berms were breached to prevent them from holding water. Contaminated soils removed
Pads	No action taken
Roads	No action taken
Airstrip	No action taken
Borrow sources	No action taken

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Contaminated soils	Excavation of PHC-impacted soils, placement of soils into the Phase 1 Tank Farm area and backfilling of excavations; placement of PK cover over PHC-impacted soils in Phase 1 Tank Farm area;
Non-hazardous waste	No action taken
Hazardous materials	Cleaning and/or decommissioning of all drums, pipelines and ASTs; consolidation and classification of organic liquid wastes; disposal of organic liquid waste by incineration (if criteria met) or shipment off-site; depressurization of gas cylinders and fire extinguishers and storing empty containers in designated area on-site; disposal of all other identified hazardous waste by shipment off-site;

3.4 Site Conditions Once Site Stabilization Activities have been Executed

3.4.1 Summary of Residual Risks

Table 6 summarizes the residual risks at the site, following implementation of the site stabilization activities. For the Jericho site, there are no operational activities, and maintenance activities will be triggered as required through visual inspections (i.e., surveillance). Therefore, no O&M activities are planned for the Jericho site. Each residual risk is also categorized by level and the proposed action.

Table 6 Summary of Residual Risks Following Site Stabilization

Residual Risk	Level	Proposed Action
Sediment release and instability of side slopes could result in poor performance of the West Dam breach.	Low	Surveillance of the West Dam breach. Erosion and slow failure not expected to pose a risk.
Potholes in the PKCA cover were observed near the end of the 2017 field season. Further erosion could result in localized failure of the tailings cover and release windblown tailings.	Moderate	Potholes will be filled in 2018 field season and monitoring of the PKCA cover
The Open Pit could result in injury to third party, as there are no access restrictions.	Moderately high	Open pit is being converted to a pit lake which is expected to take 11 to 15 years. Signage is posted near pit, airstrip and on southwest end of site and removed once pit is full.
Due to design inconsistencies, the road adjacent to the Open Pit could hold water and eventually wash out, resulting in a sediment release to Carat Lake.	Low	Survey the existing conditions and take corrective actions as appropriate.
Hydrocarbon contaminated soils have been placed into a lined containment cell. The liner could be compromised resulting in water contacting soil and contaminated water release to the environment.	Low	Surveillance of the PHC containment cell.

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Residual Risk	Level	Proposed Action
The water in the pit contains uranium concentrations above CCME guidelines for the protection of aquatic life. Eventually the pit lake will overflow into Carat Lake	Low	Long term monitoring of the pit lake water, to determine if there is a risk prior to overflow.
Building condition will deteriorate over time, resulting in loss of asset value	Low	No action. Building asset value to progress towards \$0.

4 AUTHORITY AND ACCOUNTABILITY

As the site owner, INAC Contaminated Sites Program of the Nunavut Regional Office is responsible for ensuring OMS activities are carried out for the site. The site stabilization activities are managed and implemented by INAC, PSPC, and / or the Contractor.

5 OPERATION AND MAINTENANCE REQUIREMENTS

There are no planned operational and only a few potential maintenance requirements for the Jericho site following site stabilization activities. For example, even if there is some settlement in the coarse cover that was placed over the fine processed kimberlite, this would not compromise the overall design intent of the cover (which was physical isolation to prevent contact, erosion and dust suspension).

Maintenance requirements will be performed on a reactive basis in response to ongoing surveillance, since no preventative maintenance is justified for the Jericho site. To illustrate, if surveillance determines that there is unacceptable erosion, INAC would only then perform maintenance (i.e., no preventative maintenance). As a result, there is no need for a maintenance section in the current OMS.

6 SURVEILLANCE REQUIREMENTS

There is a low level of residual risk post stabilization, so OMS activities will be focused on assuring that the site remains in a physically and environmentally stable condition. The planned surveillance activities (i.e., visual inspection and monitoring) have been designed to mitigate the residual risks identified in Table 6, and are expected to show evidence of natural attenuation over time.

6.1 OMS Decision Criteria

OMS Decision Criteria are used to facilitate decisions on whether there should be modifications to OMS activities during each phase review period. The OMS Decision Criteria table below (Table 7) provides an outline of the OMS activities for the Jericho Mine site, along with the corresponding triggers and contingency actions to assist with decisions as the OMS program moves forward.

Table 7 OMS Decision Criteria and Parameters to be Monitored

Parameter	Activity	Trigger	Contingency Action
Monitoring	Uranium concentration is measured in pit water	Uranium concentration below CCME guideline	Discontinue monitoring
		Uranium concentration stable (post year 5) and remains above CCME guideline	Further mitigation required to reduce uranium concentration prior to pit water overflow (11-15 years)
Visual Inspection	Inspecting for development of potholes, dykes / dams, and changes to landfill liner (i.e., roads, tailings cover, PHC cell, west dam, divider dyke, former C1 diversion)	Changes noted to landfill liner	Consider installation of new liner if site visits will still be required
		Development of pot holes	Consider filling potholes if site visits will still be required
		Changes to dams / dykes	Consider repairs if site visits will still be required
Frequency	Site visit requirements	No changes to site or stable trends	Reduce monitoring frequency
		Annual changes to site or increasing trends	Increase monitoring frequency
	Pit water level	Estimated time to overflow remains unchanged	Reduce monitoring frequency
		Estimated time to overflow has shortened	Consider further mitigation (e.g., pumping pit water) if OMS activities continue
		Pit water overflows	Discontinue all OMS activities once site conditions stabilize post-overflow and uranium below CCME guideline

6.2 Stability of Physical Features Requiring Visual Inspection

There are a several physical features, both natural and “human made”, at the Jericho site that will require visual inspection as outlined in **Table 7**. If this surveillance identifies any changes, maintenance activities may be required. It is expected that there will be minimal visual inspection requirements after approximately 25 years.

The installed “human made” engineered controls required to stabilize the site:

- Covers and cells
- Dams and dykes
- Pits (including water level)
- Roads

6.3 Long-term Monitoring Considerations

Environmental long-term monitoring considerations are anticipated to be contained within the boundaries of the site and largely be addressed through stabilization. Conceptual site models are typically used to assist with the identification of the anticipated exposure pathways which need to be monitored to ensure adequate protection of the potential human and biological receptors. For the Jericho Mine site, no conceptual model was developed because of the low potential risk and limited availability of potential receptors, including Species at Risk.

The only residual risk identified that required long-term monitoring as part of OMS activities was the uranium concentration in the pit water (see **Table 7**), which currently is above CCME guidelines, but has been trending downwards in recent years. It is projected to be below guidelines within three years, but OMS activities will confirm before monitoring is discontinued.

6.4 Frequency of Surveillance Activities

The frequency of the surveillance activities for the Jericho site will be minimized, within reason, given the low level of residual risk. Site-based visual inspections and monitoring will be conducted at regular intervals to provide assurance that the site is stable and below acceptable thresholds.

The assumption is that demonstrated confirmation of stability will allow for the gradual reductions in surveillance frequency. Given the low level of residual risk for this site, it is expected that through the INAC OMS Guidance iterative review process (i.e., occurs after each surveillance interval), opportunities to reduce the frequency will be identified and implemented within each subsequent surveillance interval.

Best practices for mine closures in Canada and the US have adopted a reducing surveillance approach based on re-evaluation at determined terms in the lifecycle of the of the site. Monitoring frequency and requirements and associated reductions generally are by the engineer of record. Recommended surveillance frequency, evaluation and projected surveillance requirements are presented in Table 8.

Table 8 Frequency of Surveillance

Task	Year	1	2	3	4	5	6	7	8	9	10	15	20	25	26	26>
Visual inspection		✓	✓	✓		✓		✓		✓		✓	✓	✓		As Required
Long Term monitoring		✓	✓	✓		✓		✓		✓		✓	✓	✓		As Required
Evaluate conditions and adjust surveillance/ update risks					✓						✓				✓	As Required

6.5 Contingency Plans

Based on the items identified in the Residual Risk Table (Table 3-4), some will potentially require contingency plans if further action is required, as identified through surveillance activities. These items should be pre-planned during stabilization activities to ensure they will be addressed, given that they are known issues expected to develop on the site over time.

6.5.1 Pit Lake Water Level Reduction

The Pit lake is expected to fill over in 11 to 15 years. In advance of any overtopping event, a risk assessment and contingency plan should be developed if uranium concentrations in pit water are expected to still be above CCME guidelines. If the risk assessment determines that the over topping presents an acceptable risk, no further action will be required. If risk assessment determines that there is still a risk, further action will still be required. Action will entail the preparation of a contingency plan to lower the water level and consider further pit water treatment.

7 REGULATORY MANAGEMENT

As per the *Agreement Between the Inuit of the Nunavut Settlement Area and Her majesty the Queen in right of Canada* (Nunavut Agreement), all water uses in the Nunavut Settlement Area are subject to some form of approval from the Nunavut Water Board (NWB).

On May 16, 2017 the NWB, issued recommended terms and conditions for completing the Site Stabilization Project at the Jericho Mine Site, as submitted January 30, 2017 as per Section 89 of the

OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) PLAN

Nunavut Waters and Nunavut Surface Rights Tribunal Act S.C. 2002, c. 10 (NWNSRTA). It was subsequently revised and re-issued on June 23, 2017.

Part J, item 1 requires that a Monitoring Program be established for adequate monitoring and assessment of site activities (this document). Part B, item 1 requires an annual report be submitted by March 31st of each year following the calendar year being reported. Part B, item 1 outlines required reporting and therefore acts as a guide in developing this monitoring program for the site.

The most recent licence for the Jericho Mine site is Water Licence 2AM-JER1119 Type “A” issued to Shear Diamond (Nunavut) Corporation, but they no longer have one due to the use of S.89 and does not apply to the site going forward. The Board’s decision on May 16, 2017 does not mention an anticipated date of completion of monitoring work associated with the Project, however, it does identify that creating a Pit Lake through removal of the C1 Diversion is anticipated to take 11-15 years to fill. Site Stabilization work was completed in 2017. Therefore, it is understood the Board anticipates pit filling will continue until approximately 2028-2032.

Ongoing formal communication with the NWB through submission of the required Project Update Summary Report will ensure reporting and monitoring requirements are fulfilled and any other Board direction is addressed. Based on the nature of OMS activities which, as discussed above, would be limited to surveillance only, it is unlikely that the OMS activities would trigger any regulatory requirements. There would still remain a need to engage and consult.

8 FUNDING AND RESOURCE REQUIREMENTS

A risk management (site stabilization) approach was taken at the Jericho site. As such, it is possible that additional remedial work could be completed at some time in the future. The iterative approach of the INAC OMS Plan Guidance requires regular updates to the OMS Plan and allows for updates if additional work is completed.

8.1 Funding

The estimated cost of an OMS surveillance event is approximately \$50,000 based on a 2 day site visit. Details on the estimate are below (or in an appendix):

- Mobilization charter flight = \$10,000
- Personnel (4x1000/dayx2days) = \$8,000
- Food and miscellaneous supplies = \$2,000
- Water sampling & analysis = \$2,000
- Demobilization charter flight = \$10,000
- Reporting = \$10,000
- Fuel, communication and management costs = \$8,000

8.2 Human Resources

INAC will have a Project Manager assigned to the project. Other resources will be added as needed (e.g. PSPC, consultants).

9 INFORMATION AND RECORDS MANAGEMENT

Information associated with the Jericho diamond mine can be divided into two key types:

- 1) Records that document past operations and activities (Table 2-1); and
- 2) Monitoring data generated as part of the implementation of this OMS Plan (i.e., observations during visual inspection, long-term monitoring data, any maintenance activities / contingency actions required).

These will be stored in the Nunavut Region Office of INAC electronic filing system CIDM.

10 PUBLIC PARTICIPATION

Part B, item 1(l) of the terms and conditions issued on May 16, 2017 include a requirement to include “a public consultation/participation report describing any consultation with local organization and the residents of the nearby communities” in each Project Update Summary Report submitted annually. The annual reporting will end with the discontinuation of OMS activities.

For the Jericho Mine site, there will be an option to comment on the OMS plan, but no further action afterwards. There will be no further review expected due to low level of risk being mitigated.

11 CULTURAL, NATURAL AND HISTORICAL PRESERVATION

None were identified during the Environment Canada review and the Inuit owned land is separate from the Jericho Mine site.

12 CONCLUDING STATEMENT

There is a low level of residual risk at the Jericho diamond mine site, and the planned OMS activities are designed to effectively mitigate and manage this residual risk post-stabilization. During each iterative review stage, in accordance with the INAC OMS Guidance, there will be opportunities to review the OMS program and make decisions regarding monitoring reductions and/or the need to conduct further remedial activities. If / when it is decided to proceed ahead with further remediation, it is also expected that through these iterative review stages within the OMS program, there will be fewer residual risks that need to be addressed.

13 REFERENCES

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SRK, 2003a. Technical Memorandum B, Supplemental Permafrost Characterization, Jericho Project, Nunavut, report prepared for Tahera Corporation, prepared by SRK Consulting, October 2003.

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