

October 30, 2009

EBA File: W23101159.018

Yukon Energy Corporation
PO Box 5920
Whitehorse, Yukon Y1A 6S7

Attention: David Morrison, CEO

Subject: Gas Sampling, Jarvis River Warm Springs, Yukon

1.0 INTRODUCTION

As part of the 2009 Yukon Geothermal Exploration Program, Yukon Energy Corporation retained EBA Engineering Consultants Ltd. (EBA) to sample and analyze the composition of gas released from the Jarvis River Warm Springs. The gas composition may provide additional information on the origin of the thermal fluids and the type of geothermal reservoir.

The scope of services for Phase 018 of the 2009 Geothermal Exploration Program included:

- Development of a sampling method to collect gas samples from the Jarvis River Warm Springs;
- Collection of gas samples from the Jarvis River Warm Springs;
- Analysis of the gas composition including helium (He), hydrogen (H₂), nitrogen (N₂), carbon dioxide (CO₂), oxygen (O₂), hydrocarbons (C1-C7+), and hydrogen sulphide (H₂S);
- Interpretation of the gas composition with respect to fluid origin; and,
- Preparation of this Technical Memo describing the methods applied and results of this project phase.

2.0 METHODS

EBA reviewed available sampling methods for gas released from warm and hot springs and developed a sampling technique that met the requirements for sample collection from the Jarvis River Warm Springs. The sampling device developed consists of a large diameter funnel that can be connected via a short tube to a Tedlar® gas sampling bag. The device is lightweight, can easily be transported in a helicopter, and is easy to use. The Tedlar® bags

were provided by Exova (formerly Bodycote Testing Group) in Edmonton, Alberta. All bags were evacuated by the lab to avoid contamination of the sample.

Gas is being released from all pools of the Jarvis River Warm Springs as vents formed by bubbles of different sizes ranging from a few millimetres to about ten centimetres in diameter. These gas vents appeared to be fairly constant with respect to location within the pool and activity. The gas was observed to be released intermittently in time intervals of tens of seconds to several minutes.

To collect a gas sample, the gas sampling device was positioned over an active gas vent and the funnel was pushed down until it was fully submerged to remove the air inside the funnel. The remaining air filled tube was then purged by the gas released from the pool and collected by the funnel. Once the tube was purged thoroughly the Tedlar® bag was connected to the tube and opened to receive the gas sample. Caution was exercised to minimize potential contamination of the gas sample with air. Figure 1 (attached) shows the pools where gas samples were collected.

The gas samples were then sent to the Exova lab in Edmonton for analysis of the gas composition including the gases listed in Section 1.

3.0 RESULTS AND DISCUSSION

The analytical results of the gas analyses are summarized in Table 1 and lab reports are included as Appendix A. All four samples are almost entirely composed of nitrogen with minor fractions of oxygen, carbon dioxide, and helium. Sample P4 also contains trace amounts of methane. All other gases analyzed were below analytical detection limits.

The concentrations of CO₂ and H₂S, which often dominate the composition of geothermal gases (Marini, 2000), were found to be low (CO₂) or below detection limit (H₂S). The observed gas composition probably represents O₂-depleted air which degasses from the water. Biological activity in the subsurface (e.g., decomposition of organic material) generally consumes O₂ and produces CO₂ and N₂. Under aerobic conditions, O₂ consumption is compensated for by approximately equimolar production of CO₂ and does not change the partial pressure of the other gases. However, CO₂ concentrations may be lower than expected because of its higher solubility in water and possible chemical reactions with minerals (especially carbonates). The process of denitrification, which describes the chemical or biochemical reduction of nitrate (NO₃⁻) and nitrite (NO₂⁻) into gaseous nitrogen oxides (NO_x) and molecular nitrogen (N₂), may also contribute to the amount of nitrogen observed in the gas samples.

Helium appears to be considerably enriched in the samples (by a factor of 30 to 40) compared to the atmospheric composition. Helium usually accumulates in groundwater as a function of residence time. The helium isotope ⁴He is likely being produced in the subsurface by the radioactive decay of uranium and thorium. The longer the residence time

of the groundwater in the subsurface the more ^4He accumulates in the water. However, because the uranium and thorium concentrations in the aquifer matrix are usually unknown and often highly heterogeneous ^4He cannot be used for quantitative dating of the groundwater. The dissolved noble gas analysis including the helium isotopes ^3He and ^4He in water samples from the Jarvis River Warm Springs, which will be conducted as part of Phase 022 of this project, will add further information on the amount of accumulated helium and its possible origin.

The small amounts of oxygen in the samples may indicate minor contamination of the sample with air that occurred during sampling or sample storage prior to analysis. However, because the oxygen fraction in the sample is very small compared to atmospheric air (< 1.10% in the samples vs. 20.1% in air) EBA concludes that the samples are representative for the gas released from the Jarvis River Warm Springs and that contamination with air is negligible (less than approximately 5%).

The following conceptual model may explain the observed gas composition:

Atmospheric gases dissolve in the groundwater during recharge depending on the local temperature and atmospheric pressure conditions. The temperature during gas exchange is controlled by the shallow soil temperature in the recharge area, which usually corresponds to the shallow groundwater temperature. Although the recharge area of the groundwater forming the Jarvis River Warm Springs is unknown, the temperature can be roughly estimated from cold water springs found in the study area. These cold water springs indicate that the shallow groundwater temperature is about 4°C and might be even lower if the actual recharge area is located at higher elevation. The local pressure conditions during infiltration of the groundwater depend on the elevation of the recharge area.

The groundwater moves through the subsurface and reaches significant depths where the water is heated geothermally. The groundwater then rises quickly presumably along a steeply dipping permeable fault, probably mixes with shallow, cold groundwater and discharges as the Jarvis River Warm Springs.

Two factors may cause the discharging groundwater to degas: (i) the gas solubility in water is pressure dependent; upwelling and discharging of the geothermal water is accompanied by a significant decrease in hydrostatic pressure which lowers the solubility of the gas in water. (ii) The gas solubility is also temperature-dependent and decreases with increasing temperature. The temperature during gas exchange with the atmosphere in the recharge area (supposedly about 4°C) is considerably lower than the temperature of the Jarvis River Warm Springs (approximately 18°C). Figure 2 shows the temperature-dependence of the solubility of N_2 in water relative to the solubility at 4°C .

If the water temperature increases from 4°C to 18°C the solubility of N_2 decreases by about 25%. Therefore, dissolved gases in the discharging water may be supersaturated with respect to the pressure and temperature conditions in the Jarvis River Warm Springs that causes the water to degas forming the observed bubble vents.

4.0 CONCLUSIONS

EBA developed a sampling method for obtaining gas samples from the Jarvis River Warm Springs that seem to be representative of the gas released from the pools. The consistent composition of all samples collected and the very small amounts of oxygen in the samples indicate that contamination with air during the sampling process was negligible.

All samples contain more than 98% nitrogen and only minor amounts of carbon dioxide, oxygen, and methane (only sample P4). Gas compositions dominated by carbon dioxide and hydrogen sulphide, which are typical for geothermal systems, were not observed (Marini, 2000). The gas composition can rather be explained as oxygen-depleted air originating from gas exchange with the atmosphere during groundwater recharge. This indicates a meteoric origin of the water that is in agreement with previous findings (EBA, 2009).

The results of this project phase will be reviewed in conjunction with all other data and incorporated into a summary report of the 2009 geothermal exploration program.

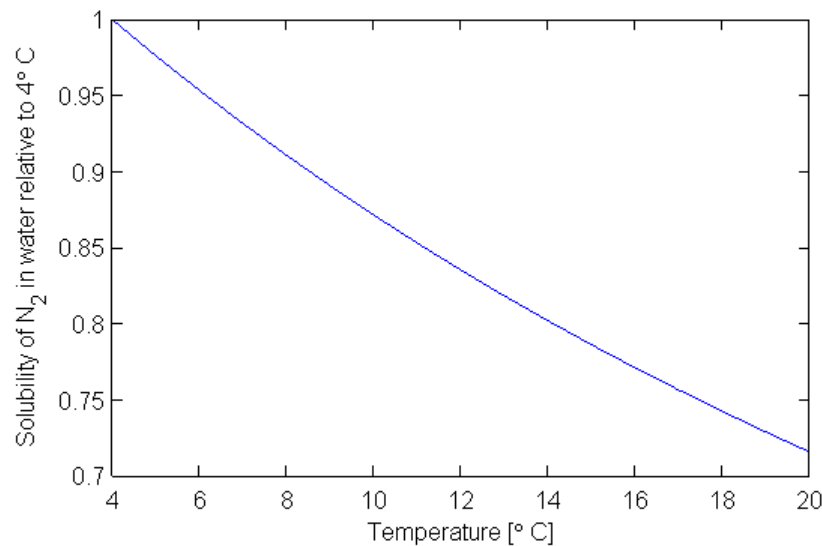


Figure 2: Temperature dependence of the solubility of N₂ in water relative to a temperature of 4°C which corresponds to the typical shallow groundwater temperature in the area of the Jarvis River Warm Springs.

5.0 REFERENCES

EBA (2009) Ground-based Geothermal Reconnaissance Program, Multiple Areas, Yukon. Project report submitted to Yukon Energy Corporation.

Marini, L. (2000) Geochemical Techniques for the Exploration and Exploitation of Geothermal Energy. Genoa, Italy. (Available at: <http://www.dipteris.unige.it/geochimica/Pesto/lectures/chile.pdf>)

6.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Yukon Energy Corporation and their agents. EBA does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Yukon Energy Corporation, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in the General Conditions provided in Appendix A of this report.

7.0 CLOSURE

We trust this report meets your present requirements. Should you have any questions or comments, please contact the undersigned at your convenience.

Respectfully submitted,

EBA Engineering Consultants Ltd.

Stephan Klump, Dipl.-Geol., Ph.D.
Hydrogeologist
Whitehorse Environment Group
Direct Line: (867) 668-2071 ext.250
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Hydrogeologist, Team Leader
Whitehorse Environment Group
Direct Line: 867.668.2071 x231
Email: rmartin@eba.ca



TABLES



TABLE 1: GAS COMPOSITION, JARVIS RIVER WARM SPRINGS

Analyte		Units	Sample Name	P1	P2	P3	P4	Atmospheric Composition
			Lab ID	693076-1	693076-2	693076-3	693076-4	
			Sample Date	13-Jul-09	13-Jul-09	13-Jul-09	13-Jul-09	
			Sample Location	H09S-1	H09S-2	H09S-3	H09S-4	
			Easting (UTM, Nad83)	08 338219	08 338237	08 338234	08 338245	
			Northing (UTM, Nad83)	6755474	6755486	6755457	6755448	
			Matrix	Gas	Gas	Gas	Gas	
			Detection Limit					
Gas Composition								
Helium	He	Mole %	0.01	0.02	0.02	0.02	0.02	0.000524
Hydrogen	H ₂		0.01	<0.01	<0.01	<0.01	<0.01	0.000055
Hydrogen Sulphide	H ₂ S		0.01	<0.01	<0.01	<0.01	<0.01	0.00
Carbon Dioxide	CO ₂		0.01	0.23	0.22	0.19	0.18	0.0383
Oxygen	O ₂		0.01	0.44	1.10	0.52	0.96	20.95
Nitrogen	N ₂		0.01	99.27	98.62	99.24	98.76	78.08
Methane	CH ₄		0.01	<0.01	<0.01	<0.01	0.05	0.0001745



FIGURES





LEGEND

- Water
- Water (Approximate)
- Sample Location
- H09S-1** Sample ID

NOT TO SCALE

CLIENT



EBA Engineering
Consultants Ltd.



2009 GEOTHERMAL EXPLORATION PROGRAM
JARVIS RIVER WARM SPRINGS, YUKON TERRITORY

**Detailed Location Plan
with Gas Sampling Locations,
Jarvis River Warm Springs**

PROJECT NO. W23101159.018	DWN SK	CKD BEP	REV 0
OFFICE EBA-WHSE	DATE October 5, 2008		

Figure 1



APPENDIX

APPENDIX A GENERAL CONDITIONS



GEO-ENVIRONMENTAL REPORT – GENERAL CONDITIONS

This report incorporates and is subject to these “General Conditions”.

1.0 USE OF REPORT AND OWNERSHIP

This report pertains to a specific site, a specific development, and a specific scope of work. It is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site or proposed development would necessitate a supplementary investigation and assessment.

This report and the assessments and recommendations contained in it are intended for the sole use of EBA’s client. EBA does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA’s Client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

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Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA’s instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of EBA’s instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA’s instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client’s current or future software and hardware systems.

3.0 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by EBA in its reasonably exercised discretion.



APPENDIX

APPENDIX B LABORATORY ANALYTICAL REPORT

Bill To: EBA Engineering Consulting Lt	Project:	Lot ID: 693076
Report To: EBA Engineering Consulting Lt	ID: W23101159.018	Approval Status: Approved
Calcite Business Centre	Name: 2009 Geothermal Assessment	Invoice Frequency: by Lot
Unit 6, 151 Industrial Road	Location: Haines Junction, Yukon	COD Status:
Whitehorse, YT, Canada	LSD:	Control Number: A095697
Y1A 2V3	P.O.:	Date Received: Jul 20, 2009
Attn: Stephan Klump	Acct code:	Date Reported: Jul 24, 2009
Sampled By:		Report Number: 1236045
Company:		

Contact & Affiliation	Address	Delivery Commitments
Stephan Klump EBA Engineering - Edmonton	Unit 6, 151 Industrial Road, Calcite Business Whitehorse, Yukon Territory Y1A 2V3 Phone: (867) 668-2071 Fax: (867) 668-4349 Email: sklump@eba.ca	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (COC, Test Report, Invoice) by Post

M

Notes To Clients:

- Sample 693076-1; 3092554 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)
- Sample 693076-2; 3092555 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)
- Sample 693076-3; 3092556 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)
- Sample 693076-4; 3092557 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)

The information contained on this and all other pages transmitted, is intended for the addressee only and is considered confidential. If the reader is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this transmission is strictly prohibited. If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

Sample Custody

Bill To: EBA Engineering Consulting Lt
Report To: EBA Engineering Consulting Lt
Calcite Business Centre
Unit 6, 151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3

Project: ID: W23101159.018
Name: 2009 Geothermal Assessment
Location: Haines Junction, Yukon
LSD:
P.O.:
Acct code:

Lot ID: **693076**
Control Number: A095697
Date Received: Jul 20, 2009
Date Reported: Jul 24, 2009
Report Number: 1236045

Attn: Stephan Klump
Sampled By:
Company:

Sample Disposal Date: October 22, 2009

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

Return Sample, collect, to the address below via:

Greyhound

Loomis

Purolator

Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

Fax _____

Signature _____

Analytical Report

Bill To: EBA Engineering Consulting Lt	Project:	Lot ID: 693076
Report To: EBA Engineering Consulting Lt	ID: W23101159.018	Control Number: A095697
Calcite Business Centre	Name: 2009 Geothermal Assessment	Date Received: Jul 20, 2009
Unit 6, 151 Industrial Road	Location: Haines Junction, Yukon	Date Reported: Jul 24, 2009
Whitehorse, YT, Canada	LSD:	Report Number: 1236045
Y1A 2V3	P.O.:	
Attn: Stephan Klump	Acct code:	
Sampled By:		
Company:		

Reference Number	693076-1	693076-2	693076-3
Sample Date	Jul 13, 2009	Jul 13, 2009	Jul 13, 2009
Sample Time	NA	NA	NA
Sample Location			
Sample Description	P1 / Jarvis Warm Springs	P2 / Jarvis Warm Springs	P3 / Jarvis Warm Springs
Matrix	Natural Gas	Natural Gas	Natural Gas

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Gas Analysis - Not Air Corrected					
Helium	Not air corrected	Mole %	0.02	0.02	0.02
Hydrogen	Not air corrected	Mole %	<0.01	<0.01	<0.01
Hydrogen Sulfide	Not air corrected	Mole %	<0.01	<0.01	<0.01
Carbon Dioxide	Not air corrected	Mole %	0.23	0.22	0.19
Oxygen	Not air corrected	Mole %	0.44	1.10	0.52
Nitrogen	Not air corrected	Mole %	99.27	98.62	99.24
Methane	Not air corrected	Mole %	<0.01	<0.01	<0.01
Ethane	Not air corrected	Mole %	<0.01	<0.01	<0.01
Propane	Not air corrected	Mole %	<0.01	<0.01	<0.01
Iso-Butane	Not air corrected	Mole %	<0.01	<0.01	<0.01
n-Butane	Not air corrected	Mole %	<0.01	<0.01	<0.01
Iso-Pentane	Not air corrected	Mole %	<0.01	<0.01	<0.01
n-Pentane	Not air corrected	Mole %	<0.01	<0.01	<0.01
Hexanes	Not air corrected	Mole %	<0.01	<0.01	<0.01
Heptanes	Not air corrected	Mole %	<0.01	<0.01	<0.01
Octanes	Not air corrected	Mole %	<0.01	<0.01	<0.01
Nonanes	Not air corrected	Mole %	<0.01	<0.01	<0.01
Decanes +	Not air corrected	Mole %	<0.01	<0.01	<0.01
Hydrogen Sulfide	As Received	ppm	<0.1	<0.1	<0.1

Analytical Report

Bill To: EBA Engineering Consulting Lt	Project:	Lot ID: 693076
Report To: EBA Engineering Consulting Lt	ID: W23101159.018	Control Number: A095697
Calcite Business Centre	Name: 2009 Geothermal Assessment	Date Received: Jul 20, 2009
Unit 6, 151 Industrial Road	Location: Haines Junction, Yukon	Date Reported: Jul 24, 2009
Whitehorse, YT, Canada	LSD:	Report Number: 1236045
Y1A 2V3	P.O.:	
Attn: Stephan Klump	Acct code:	
Sampled By:		
Company:		

Reference Number 693076-4
Sample Date Jul 13, 2009
Sample Time NA
Sample Location
Sample Description P4 / Jarvis Warm Springs
Matrix Natural Gas

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Gas Analysis - Not Air Corrected					
Helium	Not air corrected	Mole %	0.02		0.01
Hydrogen	Not air corrected	Mole %	<0.01		0.01
Hydrogen Sulfide	Not air corrected	Mole %	<0.01		0.01
Carbon Dioxide	Not air corrected	Mole %	0.18		0.01
Oxygen	Not air corrected	Mole %	0.96		0.01
Nitrogen	Not air corrected	Mole %	98.76		0.01
Methane	Not air corrected	Mole %	0.05		0.01
Ethane	Not air corrected	Mole %	<0.01		0.01
Propane	Not air corrected	Mole %	<0.01		0.01
Iso-Butane	Not air corrected	Mole %	<0.01		0.01
n-Butane	Not air corrected	Mole %	<0.01		0.01
Iso-Pentane	Not air corrected	Mole %	<0.01		0.01
n-Pentane	Not air corrected	Mole %	<0.01		0.01
Hexanes	Not air corrected	Mole %	<0.01		0.01
Heptanes	Not air corrected	Mole %	<0.01		0.01
Octanes	Not air corrected	Mole %	<0.01		0.01
Nonanes	Not air corrected	Mole %	<0.01		0.01
Decanes +	Not air corrected	Mole %	<0.01		0.01
Hydrogen Sulfide	As Received	ppm	<0.1		0.1


 Approved by: Sara Montgomery, B.Sc
 Quality Officer

Methodology and Notes

Bill To: EBA Engineering Consulting Lt Project: Lot ID: **693076**
Report To: EBA Engineering Consulting Lt ID: W23101159.018 Control Number: A095697
Calcite Business Centre Name: 2009 Geothermal Assessment Date Received: Jul 20, 2009
Unit 6, 151 Industrial Road Location: Haines Junction, Yukon Date Reported: Jul 24, 2009
Whitehorse, YT, Canada LSD: Report Number: 1236045
Y1A 2V3 P.O.:
Attn: Stephan Klump Acct code:
Sampled By:
Company:

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Natural Gas - C7/10 Composition	GPA	* Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography, GPA 2261-00	21-Jul-09	BTG Edmonton
Total Reduced Sulfur Analysis of Natural Gas	ASTM	* Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence, D 5504-05	21-Jul-09	BTG Edmonton

* Bodycote method(s) based on reference method

References

ASTM Annual Book of ASTM Standards
GPA Gas Processors Association

Comments:

- Sample 693076-1; 3092554 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)
- Sample 693076-2; 3092555 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)
- Sample 693076-3; 3092556 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)
- Sample 693076-4; 3092557 H2S was determined by GC/SCD: <0.1 ppm (mol/mol)

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

287|YXY|21672324

287 21672324

SHIPPER'S NAME AND ADDRESS EBA ENGINEERING #6-151 Insudtrial Rd Whitehorse YT Y1A 2V3 CANADA		SHIPPER'S ACCOUNT NUMBER 731553	NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE)		AIR NORTH LTD. 150 Condor Rd. Whitehorse, YT Y1A 6E6 GST No. R100094499	
CONSIGNEES NAME AND ADDRESS Bodycote Norwest 7217 Roper Rd Edmonton AB CANADA		CONSIGNEES ACCOUNT NUMBER 55683965	It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.			
ISSUING CARRIERS AGENT NAME AND CITY AIR NORTH LTD. Whitehorse		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)				
AGENTS IATA CODE 287	ACCOUNT NO.		ACCOUNTING INFORMATION			
AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING Whitehorse		INVOICE: EBA				
ROUTING AND DESTINATION						
TO YYC	BY FIRST CARRIER 4N	TO YEG	BY 4N	TO BY	BY	
AIRPORT OF DESTINATION Edmonton		FOR CARRIER USE ONLY FLIGHT DATE 507AB 17/07/09		CURRENCY CDN	CHGS CODE WTVL PPD COLL OTHER PPD COLL DECLARED VALUE FOR CARRIAGE NVD DECLARED VALUE FOR CUSTOMS NCV	
AMOUNT OF INSURANCE				INSURANCE - If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance		

HANDLING INFORMATION these commodities licensed by US for ultimate destination Diversion contrary to US law is provided
 PLS DELIVER
 JOB# W2311059.0018

NO. OF PIECES RCP	GROSS WEIGHT	RATE CLASS COMMOITY ITEM NO.	CHARGEABLE WEIGHT	RATE CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSION OR VOLUME)
1	3	P	3.88	1.00 NSC 12%	25.00 3.00	Water Filter DIMS 8.0X14.0X6.0 INCHES.
1	3.0				28.00	

PREPAID A. 28.00		WEIGHT CHARGE COLLECT		PICKUP CHARGES B. 10.00	ORIGIN ADVANCE CHARGES K.	DESCRIPTION OF ORIGIN ADVANCE ITEMS PREPAID
VALUATION CHARGE D.		TAX I. 2.65		DELIVERY CHARGES C. 15.00	DEST. ADVANCE CHARGES L.	DESCRIPTION OF DEST. ADVANCE ITEMS COLLECT
TOTAL OTHER CHARGES DUE AGENT B.F. 10.00		TOTAL OTHER CHARGES DUE CARRIER C. 15.00		SHIPPER'S R.F.C. J.		
TOTAL PREPAID 55.65		TOTAL COLLECT		OTHER CHARGES AND DESCRIPTION F.		
CURRENCY CONVERSION RATES		TOTAL COLLECT IN DESTINATION CURRENCY		EXECUTED ON 17-07-2009 10:43 Whitehorse (Date) (Time) at (Place)		
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES 287 21672324		

TRANSMITTAL

TO: Bodycote, Edmonton Office
 Contact: Sara Montgomery
C: S. Klump
DATE: July 16, 2009
FROM: Lea Menzies
FILE: W23101159.018
PROJECT: 2009 Geothermal Assessment Program

ENCLOSED: 4 x gas samples

As requested	Mail
<input checked="" type="checkbox"/> For Analysis	<input checked="" type="checkbox"/> Courier
For your approval	Hand delivered
Approved as noted	Pick up

- COMMENTS:**
- The following samples are enclosed in this package:
 - 4 x gas samples from stations P1, P2, P3 and P4
 - Samples were collected on July 13, 2009
 - Please conduct the following analysis:
 - Service Code: 100001 (He, H₂, N₂, CO₂, O₂, Cl-C7+)
 - Service Code: 1000081 (H₂S)

