

## Report Transmission Cover Page

Bill To: Town of Inuvik	Project:	Lot ID: <b>721175</b>
Report To: Town of Inuvik	ID: SNP 0036-1	Control Number: A067534
Box 1160	Name: East Channel Treatment Plant	Date Received: Jan 13, 2010
2 Firth Street	Location: Raw Water	Date Reported: Jan 20, 2010
Inuvik, NT, Canada	LSD:	Report Number: 1290255
X0E 0T0	P.O.: 100104	
Attn: Rick Campbell	Acct code:	
Sampled By:		
Company: T.O.I.		

Contact & Affiliation	Address	Delivery Commitments
Rick Campbell Town of Inuvik	2 Firth Street, Box 1160 Inuvik, Northwest Territories X0E 0T0 Phone: (867) 777-8615 Fax: (867) 777-8601 Email: rcampbell@town.inuvik.nt.ca	On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Lot Approval and Final Test Report Approval] send (COC, Test Report, Invoice) by Post M
Richard Feilden AECOM - Calgary	17203 - 103 Avenue Edmonton, Alberta T5S 1J4 Phone: (780) 488-6800 Fax: (780) 488-2121 Email: richard.feilden@aecom.com	On [Lot Verification] send (COA) by Email - Single Report

### Notes To Clients:

- Temp -43°C

**Sample Custody**

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**Sample Disposal Date: February 19, 2010**

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 top of this page.

Extend Sample Storage Until \_\_\_\_\_ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	\$ 2.50 per sample
Storage for an additional 60 days	\$ 5.00 per sample
Storage for an additional 90 days	\$ 7.50 per sample

Return Sample, collect, to the address below via:

Greyhound

DHL

Purolator

Other (specify) \_\_\_\_\_

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Signature \_\_\_\_\_

## Analytical Report

Bill To: Town of Inuvik  
Report To: Town of Inuvik  
Box 1160  
2 Firth Street  
Inuvik, NT, Canada  
XOE 0T0  
Attn: Rick Campbell  
Sampled By:  
Company: T.O.I.

Project:  
ID: SNP 0036-1  
Name: East Channel Treatment Plant  
Location: Raw Water  
LSD:  
P.O.: 100104  
Acct code:

Lot ID: **721175**  
Control Number: A067534  
Date Received: Jan 13, 2010  
Date Reported: Jan 20, 2010  
Report Number: 1290255

Reference Number 721175-1  
Sample Date Jan 12, 2010  
Sample Time NA  
Sample Location  
Sample Description ECTP  
Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Aggregate Organic Constituents</b>					
Biochemical Oxygen Demand	5 Day mg/L	<4			4
<b>Inorganic Nonmetallic Parameters</b>					
Phosphorus	Total mg/L	<0.05			0.05
Sulfide	Total mg/L	<0.005			0.005
Cyanide	Total mg/L	0.001			0.001
<b>Metals Total</b>					
Calcium	Total mg/L	46.2			0.2
Iron	Total mg/L	0.12			0.05
Magnesium	Total mg/L	12.2			0.1
Manganese	Total mg/L	<0.005			0.005
Potassium	Total mg/L	1.1			0.4
Silicon	Total mg/L	2.18			0.05
Sodium	Total mg/L	11.0			0.4
Sulfur	Total mg/L	16.2			0.3
Aluminum	Total mg/L	0.136			0.005
Antimony	Total mg/L	<0.0002			0.0002
Arsenic	Total mg/L	0.0003			0.0002
Barium	Total mg/L	0.060			0.001
Beryllium	Total mg/L	<0.0001			0.0001
Bismuth	Total mg/L	<0.0005			0.0005
Boron	Total mg/L	0.017			0.002
Cadmium	Total mg/L	0.00001			0.00001
Chromium	Total mg/L	<0.0005			0.0005
Cobalt	Total mg/L	<0.0001			0.0001
Copper	Total mg/L	0.004			0.001
Lead	Total mg/L	0.0001			0.0001
Lithium	Total mg/L	0.007			0.001
Molybdenum	Total mg/L	0.001			0.001
Nickel	Total mg/L	0.0022			0.0005
Selenium	Total mg/L	0.0003			0.0002
Silver	Total mg/L	0.00002			0.00001
Strontium	Total mg/L	0.311			0.001
Thallium	Total mg/L	<0.00005			0.00005
Tin	Total mg/L	<0.001			0.001
Titanium	Total mg/L	0.0039			0.0005
Uranium	Total mg/L	0.0009			0.0005

## Analytical Report

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Inuvik, NT, Canada	LSD:	Report Number: 1290255
XOE OT0	P.O.: 100104	
Attn: Rick Campbell	Acct code:	
Sampled By:		
Company: T.O.I.		

<b>Reference Number</b>	721175-1
<b>Sample Date</b>	Jan 12, 2010
<b>Sample Time</b>	NA
<b>Sample Location</b>	
<b>Sample Description</b>	ECTP
<b>Matrix</b>	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Metals Total - Continued</b>					
Vanadium	Total	mg/L	0.0004		0.0001
Zinc	Total	mg/L	0.006		0.001
Zirconium	Total	mg/L	<0.001		0.001
<b>Microbiological Analysis</b>					
Total Coliforms	Membrane Filtration	CFU/100 mL	<1		1
Fecal Coliforms	Membrane Filtration	CFU/100 mL	<1		1
<b>Physical and Aggregate Properties</b>					
Solids	Total Suspended	mg/L	<1		1
<b>Routine Water</b>					
pH			7.87		
Electrical Conductivity		µS/cm at 25 C	370		1
<b>Trihalomethanes Screen - Water</b>					
Chloroform		mg/L	<0.001		0.001
Bromodichloromethane		mg/L	<0.001		0.001
Dibromochloromethane		mg/L	<0.001		0.001
Bromoform		mg/L	<0.001		0.001
Total Trihalomethanes		mg/L	<0.001		0.001
<b>Trihalomethanes - Surrogate Recovery</b>					
Dibromofluoromethane	EPA Surrogate	%	93		86-118
Toluene-d8	EPA Surrogate	%	97		85-115
Bromofluorobenzene	EPA Surrogate	%	101		86-115



Approved by:

Laurie Andresen, MSc  
Client Services Manager

## Methodology and Notes

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Company: T.O.I.		

## Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Conductivity, 2510	14-Jan-10	Exova Edmonton
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	14-Jan-10	Exova Edmonton
BOD in water	APHA	* 5 Day, 5210 B	13-Jan-10	Exova Edmonton
Coliforms - Membrane Filtration	APHA	Fecal Coliform Membrane Filter Procedure, 9222 D	13-Jan-10	Exova Calgary
Coliforms - Membrane Filtration	APHA	Standard Total Coliform Membrane Filter Procedure, 9222 B	13-Jan-10	Exova Calgary
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	14-Jan-10	Exova Edmonton
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	14-Jan-10	Exova Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Jan-10	Exova Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	13-Jan-10	Exova Edmonton
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	18-Jan-10	Exova Edmonton
Sulfide in water	APHA	* Gas Dialysis, Automated Methylene Blue Method, 4500-S2- E	14-Jan-10	Exova Edmonton
THM - Water	US EPA	* US EPA method, 8260B/5035	15-Jan-10	Exova Calgary

\* Reference Method Modified

## References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

## Comments:

- Temp -43°C

## Methodology and Notes

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Attn:	Rick Campbell	Acct code:			
Sampled By:					
Company:	T.O.I.				

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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.

NOTE: Proper completion of this form is required in order to proceed with analysis  
See reverse for your nearest Bodycote location and proper sampling protocol

<b>Billing Address:</b> Town of Inuvik Company: Box 1160 Address: 2 Firth Street Inuvik, NT X0E 0T0  Attention: Rick Campbell Phone: (867) 777-8615 Fax: (867) 777-8601 Cell: (867) 777-1311 e-mail: rcampbell@town.inuvik.nt.ca	<b>Copy of Report To:</b> Earth Tech Canada Inc. Company: Address: 17203 - 103 Avenue Edmonton, AB T5S 1J4  Attention: Richard Feilden Phone: (780) 488-6800 Fax: (780) 488-2121 Cell: e-mail: richard.feilden@earthtech.ca	<b>Copy of Invoice:</b> <input type="checkbox"/> Mail Invoice to this address for approval <input type="checkbox"/>  <b>Report Results:</b> Fax <input type="checkbox"/> Mail <input type="checkbox"/> Courier <input type="checkbox"/> e-mail <input checked="" type="checkbox"/> e-Service <input type="checkbox"/>
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**Information to be included on Report and Invoice**

Project ID: SNP 0036-1

Project Name: East channel treatment

Project Location: Plant

Legal Location: RAW WATER

PO#: 100104

Proj. Acct. Code:

Agreement ID: 2909

**Rush** Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH All analysis As indicated  
 required on:  or

Date Required: \_\_\_\_\_

Signature: \_\_\_\_\_

Bodycote Authorization: \_\_\_\_\_

Sample Custody (Please Print)  
 Sampled by: \_\_\_\_\_  
 Company: T.O.I. Signature: \_\_\_\_\_

I authorize Bodycote to proceed with the work indicated on this form:

Date: Jan 12/10 Initial: el

Received by: \_\_\_\_\_ Sample Temp: 3.1 °C

Waybill # \_\_\_\_\_ Date: \_\_\_\_\_  
CANADIAN MONTH

Company: YEV 639 361 80 Time: \_\_\_\_\_

**Special Instructions / Comments**

Sampler: circle project ID below and note weather:  
 SNP3 Lagoon - SNP4 Mt.B W - SNP5 Mt.B E  
 SNP6 GatePond - SNP7 FarPond - SNP8 TwinL  
 Raw Water

temp -43 C, precip \_\_\_\_\_, wind dir \_\_\_\_\_ Vel \_\_\_\_\_ km/h

Please indicate which regulations you are required to meet: RAW WATER Drinking water guidelines

**FOR LAB USE ONLY**

Condition of containers / coolers upon arrival at lab

Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (✓ relevant samples below)													
							1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 BOD	ECP	-	Jan. 12/10																	
2 Microbiology	↓	-	↓																	
3 Nutrients	↓	-	↓																	
4 Metals	↓	-	↓																	
5 Cyanide	↓	-	↓																	
6 Routine		-																		
7 Sulphide		-																		
8 THM		-																		
9		-																		
10		-																		
11		-																		
12		-																		
13		-																		
14		-																		
15		-																		

LOT: 721175 COC



Form No. 0006 (Rev. 04/07)