

Client: City of Iqaluit  
PO Box 460  
Iqaluit, NU  
X0A 0H0  
Attention: Mr. Pat Wolfe  
PO#:  
Invoice to: City of Iqaluit

Report Number: 1220662  
Date Submitted: 2012-09-21  
Date Reported: 2012-09-28  
Project: Test A WTP Raw  
COC #: 154603

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**Dear Pat Wolfe:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL: \_\_\_\_\_

Lorna Wilson  
Inorganic Laboratory Supervisor

Exova (Ottawa) is certified and accredited for specific parameters by:

CALA, Canadian Association for Laboratory Accreditation (to ISO 17025), OMAF, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils), Licensed by Ontario MOE for specific tests in drinking water.

Exova (Mississauga) is accredited for specific parameters by:

SCC, Standards Council of Canada (to ISO 17025)

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only.

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Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Calculations	Hardness as CaCO <sub>3</sub>	1	mg/L	OG-100	986502 Water
	TDS (COND - CALC)	1	mg/L	AO-500	2012-09-19 Test A (WTP Raw)
General Chemistry	Acidity as CaCO <sub>3</sub>	5	mg/L		
	Alkalinity as CaCO <sub>3</sub>	5	mg/L	OG-500	
	Cl	1	mg/L	AO-250	
	CO <sub>3</sub> as CaCO <sub>3</sub>	1	mg/L		
	Conductivity	5	uS/cm		
	HCO <sub>3</sub> as CaCO <sub>3</sub>	1	mg/L		
	OH	0.01	mg/L		
	pH	1.00		6.5-8.5	
	SO <sub>4</sub>	3	mg/L	AO-500	
	TOC	0.5	mg/L		
	Total Inorganic Carbon	2.0	mg/L		
	Total Suspended Solids	2	mg/L		
Mercury	Hg	0.0001	mg/L	MAC-0.001	
Metals	Ag	0.0001	mg/L		
	Al	0.01	mg/L	OG-0.1	
	As	0.001	mg/L	IMAC-0.025	
	B	0.01	mg/L	IMAC-5.0	
	Ba	0.01	mg/L	MAC-1.0	
	Be	0.0005	mg/L		
	Ca	1	mg/L		
	Cd	0.0001	mg/L	MAC-0.005	
	Co	0.0002	mg/L		
	Cr	0.001	mg/L	MAC-0.05	
	Cu	0.001	mg/L	AO-1.0	

Guideline = ODWSOG

\* = Guideline Exceedence

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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	986502 Water  2012-09-19 Test A (WTP Raw)
Group	Analyte	MRL	Units	Guideline	
Metals	Fe	0.03	mg/L	AO-0.3	0.06
	K	1	mg/L		<1
	Mg	1	mg/L		1
	Mn	0.01	mg/L	AO-0.05	0.02
	Mo	0.005	mg/L		<0.005
	Na	2	mg/L	AO-200	<2
	Ni	0.005	mg/L		<0.005
	Pb	0.001	mg/L	MAC-0.010	<0.001
	Sb	0.0005	mg/L	IMAC-0.006	<0.0005
	Se	0.001	mg/L	MAC-0.01	<0.001
	Si	0.1	mg/L		0.5
	Sr	0.001	mg/L		0.013
	Ti	0.01	mg/L		<0.01
	Tl	0.0001	mg/L		<0.0001
	V	0.001	mg/L		<0.001
	Zn	0.01	mg/L	AO-5.0	<0.01
Nutrients	Dissolved Reactive Phosphorus	0.01	mg/L		<0.01

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 0 <b>Analysis Date</b> 2012-09-28 <b>Method</b> SM 2320B			
CO <sub>3</sub> as CaCO <sub>3</sub>			
Hardness as CaCO <sub>3</sub>			
HCO <sub>3</sub> as CaCO <sub>3</sub>			
OH			
TDS (COND - CALC)			
<b>Run No</b> 237231 <b>Analysis Date</b> 2012-09-24 <b>Method</b> M SM3112B-3500B			
Hg	<0.0001 mg/L	107	70-130
<b>Run No</b> 238805 <b>Analysis Date</b> 2012-09-24 <b>Method</b> SM 4110C			
Cl	<1 mg/L	101	90-112
SO <sub>4</sub>	<3 mg/L	103	90-110
<b>Run No</b> 238861 <b>Analysis Date</b> 2012-09-24 <b>Method</b> C SM5310C			
TOC	<0.5 mg/L	104	84-116
Total Inorganic Carbon	<2.0 mg/L		85-115
<b>Run No</b> 238910 <b>Analysis Date</b> 2012-09-25 <b>Method</b> C SM4500-PF			

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Dissolved Reactive Phosphorus	<0.01 mg/L	100	89-111
<b>Run No</b> 238913 <b>Analysis Date</b> 2012-09-24 <b>Method</b> SM 2320B			
Alkalinity as CaCO <sub>3</sub>	<5 mg/L	99	95-105
Conductivity	<5 uS/cm	101	95-105
pH	5.71	100	90-110
<b>Run No</b> 238968 <b>Analysis Date</b> 2012-09-25 <b>Method</b> EPA 200.8			
Ag	<0.0001 mg/L	98	89-111
Al	<0.01 mg/L	92	90-110
As	<0.001 mg/L	100	81-119
B	<0.01 mg/L	92	81-119
Ba	<0.01 mg/L	101	91-109
Be	<0.0005 mg/L	97	82-118
Cd	<0.0001 mg/L	99	86-114
Co	<0.0002 mg/L	97	88-112
Cr	<0.001 mg/L	99	89-111
Cu	<0.001 mg/L	99	86-114
Fe	<0.03 mg/L	105	88-112

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Mn	<0.01 mg/L	96	91-109
Mo	<0.005 mg/L	104	84-116
Ni	<0.005 mg/L	103	92-108
Pb	<0.001 mg/L	97	89-111
Sb	<0.0005 mg/L	102	77-123
Se	<0.001 mg/L	99	77-123
Sr	<0.001 mg/L	105	91-109
Ti	<0.01 mg/L	90	88-112
Tl	<0.0001 mg/L	99	88-112
V	<0.001 mg/L	97	88-112
Zn	<0.01 mg/L	94	89-111
Run No 238993 Analysis Date 2012-09-26 Method SM 2310B			
Acidity as CaCO <sub>3</sub>			
Run No 239116 Analysis Date 2012-09-27 Method M SM3120B-3500C			
Si	<0.1 mg/L	91	70-130
Run No 239120 Analysis Date 2012-09-27 Method C SM2540			
Total Suspended Solids	<2 mg/L	99	90-110

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**QC Summary**

Analyte		Blank	QC % Rec	QC Limits	
Run No	239157	Analysis Date	2012-09-27	Method	M SM3120B-3500C
Ca		<1 mg/L	98	80-120	
K		<1 mg/L	95	80-120	
Mg		<1 mg/L	91	80-120	
Na		<2 mg/L	100	80-120	

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