



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

Taiga Batch No.:
180486

- FINAL REPORT -

Prepared For: Community Government of Behchoko

Address: P.O. Box 68
Behchoko, NT
X0E 0Y0

Attn: Galvin Simpson

Facsimile: (867) 392-6967

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: Tuesday, July 17, 2018

Print Date: *Tuesday, July 17, 2018*

Page 1 of 10



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Taiga Batch No.:
180486

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP R3**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 04-Jul-18

Sampling Date: 04-Jul-18

Sampling Time: 11:30

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.468	0.005	mg/L	06-Jul-18	SM4500-NH3:G	
Biochemical Oxygen Demand	4	2	mg/L	05-Jul-18	SM5210:B	
CBOD	5	2	mg/L	05-Jul-18	SM5210:B	
Chemical Oxygen Demand	118	50	mg/L	06-Jul-18	SM5220:D	
Nitrogen, Total	2.67	0.06	mg/L	07-Jul-18	ISO/TR 11905:1997(E)	
Phosphorous, Total	0.533	0.002	mg/L	06-Jul-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	65.0	0.4	mg/L	04-Jul-18	SM2320:B	
pH	6.99		pH units	04-Jul-18	SM4500-H:B	
Solids, Total Suspended	4	3	mg/L	06-Jul-18	SM2540:D	
<u>Major Ions</u>						
Calcium	13.4	0.1	mg/L	06-Jul-18	SM4110:B	
Magnesium	12.6	0.1	mg/L	06-Jul-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	2	1	CFU/100mL	05-Jul-18	SM9222:D	

ReportDate: Tuesday, July 17, 2018

Print Date: **Tuesday, July 17, 2018**

Page 2 of 10



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Taiga Batch No.:

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP R3**

Taiga Sample ID: **001**

Coliforms, Total

1.0

MPN/100mL

SM9223:B

97

ReportDate: Tuesday, July 17, 2018

Print Date: *Tuesday, July 17, 2018*

Page 3 of 10



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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP R4**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 04-Jul-18

Sampling Date: 04-Jul-18

Sampling Time: 11:30

Location: Rae Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	06-Jul-18	SM4500-NH3:G	
Biochemical Oxygen Demand	2	2	mg/L	05-Jul-18	SM5210:B	
CBOD	3	2	mg/L	05-Jul-18	SM5210:B	
Chemical Oxygen Demand	101	50	mg/L	06-Jul-18	SM5220:D	
Nitrogen, Total	1.31	0.06	mg/L	07-Jul-18	ISO/TR 11905:1997(E)	
Phosphorous, Total	0.025	0.002	mg/L	06-Jul-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	41.2	0.4	mg/L	04-Jul-18	SM2320:B	
pH	6.90		pH units	04-Jul-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	06-Jul-18	SM2540:D	
<u>Major Ions</u>						
Calcium	9.2	0.1	mg/L	06-Jul-18	SM4110:B	
Magnesium	9.6	0.1	mg/L	06-Jul-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	4	1	CFU/100mL	05-Jul-18	SM9222:D	
Coliforms, Total		1.0	MPN/100mL		SM9223:B	97

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Taiga Batch No.:
180486

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **R1 WTP Supply**

Taiga Sample ID: **003**

Client Project: W2014L3-0002

Sample Type: Potable

Received Date: 04-Jul-18

Sampling Date: 04-Jul-18

Sampling Time: 11:30

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Trace Metals, Total</u>						
Aluminum	19.8	0.6	µg/L	09-Jul-18	EPA200.8	
Antimony	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8	
Arsenic	0.5	0.2	µg/L	09-Jul-18	EPA200.8	
Barium	21.0	0.1	µg/L	09-Jul-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8	
Bismuth	< 0.2	0.2	µg/L	09-Jul-18	EPA200.8	
Boron	9.4	0.9	µg/L	09-Jul-18	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	09-Jul-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8	
Chromium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8	
Cobalt	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8	
Copper	25.5	0.2	µg/L	09-Jul-18	EPA200.8	
Iron	< 5	5	ug/L	09-Jul-18	EPA200.8	
Lead	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8	
Lithium	2.7	0.2	µg/L	09-Jul-18	EPA200.8	
Manganese	23.7	0.1	µg/L	09-Jul-18	EPA200.8	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **R1 WTP Supply**

Taiga Sample ID: **003**

Mercury	< 0.01	0.01	µg/L	09-Jul-18	EPA200.8
Molybdenum	0.2	0.1	µg/L	09-Jul-18	EPA200.8
Nickel	0.5	0.1	µg/L	09-Jul-18	EPA200.8
Rubidium	2.1	0.1	µg/L	09-Jul-18	EPA200.8
Selenium	< 0.3	0.3	µg/L	09-Jul-18	EPA200.8
Silver	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8
Strontium	54.6	0.1	µg/L	09-Jul-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8
Tin	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8
Titanium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8
Uranium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8
Vanadium	< 0.1	0.1	µg/L	09-Jul-18	EPA200.8
Zinc	2.5	0.4	µg/L	09-Jul-18	EPA200.8

ReportDate: Tuesday, July 17, 2018

Print Date: *Tuesday, July 17, 2018*

Page 6 of 10



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP E2**

Taiga Sample ID: **004**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 04-Jul-18

Sampling Date: 04-Jul-18

Sampling Time:

Location: Rae SNP

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	4.94	0.005	mg/L	06-Jul-18	SM4500-NH3:G	
Biochemical Oxygen Demand	14	2	mg/L	05-Jul-18	SM5210:B	
CBOD	14	2	mg/L	05-Jul-18	SM5210:B	
Phosphorous, Total	0.266	0.002	mg/L	06-Jul-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
pH	7.94		pH units	04-Jul-18	SM4500-H:B	
Solids, Total Suspended	8	3	mg/L	06-Jul-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	700	100	CFU/100mL	05-Jul-18	SM9222:D	

ReportDate: Tuesday, July 17, 2018

Print Date: *Tuesday, July 17, 2018*

Page 7 of 10



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP E3**

Taiga Sample ID: **005**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 04-Jul-18

Sampling Date: 04-Jul-18

Sampling Time:

Location: Rae SNP

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	11.8	0.005	mg/L	06-Jul-18	SM4500-NH3:G	
Biochemical Oxygen Demand	37	2	mg/L	05-Jul-18	SM5210:B	
CBOD	36	2	mg/L	05-Jul-18	SM5210:B	
Phosphorous, Total	1.25	0.002	mg/L	06-Jul-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
pH	7.32		pH units	04-Jul-18	SM4500-H:B	
Solids, Total Suspended	52	3	mg/L	06-Jul-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	110000	1000	CFU/100mL	05-Jul-18	SM9222:D	

ReportDate: Tuesday, July 17, 2018

Print Date: *Tuesday, July 17, 2018*

Page 8 of 10



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP E4**

Taiga Sample ID: **006**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 04-Jul-18

Sampling Date: 04-Jul-18

Sampling Time:

Location: Rae SNP

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.183	0.005	mg/L	06-Jul-18	SM4500-NH3:G	
Biochemical Oxygen Demand	5	2	mg/L	05-Jul-18	SM5210:B	
CBOD	4	2	mg/L	05-Jul-18	SM5210:B	
Phosphorous, Total	0.204	0.002	mg/L	06-Jul-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
pH	6.74		pH units	04-Jul-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	06-Jul-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	05-Jul-18	SM9222:D	

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Print Date: *Tuesday, July 17, 2018*

Page 9 of 10



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **W2014L3-0002 SNP E4**

Taiga Sample ID: **006**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

97 *Analyst error, analysis was not completed.*

*** 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, July 17, 2018

Print Date: *Tuesday, July 17, 2018*

Page 10 of 10