



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

**Taiga Batch No.:**  
**211149**

**- FINAL REPORT -**

---

**Prepared For:** Community Government of Behchoko

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

**Attn:** Peter Zoe

**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:** Thursday, July 29, 2021

**Print Date:** *Friday, July 30, 2021*

*Page 1 of 29*



## Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R3**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.237	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	3	2	mg/L	15-Jul-21	SM5210:B	
CBOD	2	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	1.76	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	2.01	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.418	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.462	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	0.669	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	72.7	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	221	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	6.95		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	200	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	6	3	mg/L	20-Jul-21	SM2540:D	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**

Page 2 of 29



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R3**

Taiga Sample ID: **001**

### Major Ions

Nitrate+Nitrite as Nitrogen	0.01	0.01	mg/L	15-Jul-21	SM4110:B
-----------------------------	------	------	------	-----------	----------

### Microbiology

Coliforms, Fecal	< 10	10	CFU/100mL	14-Jul-21	SM9222:D
------------------	------	----	-----------	-----------	----------

Coliforms, Total	1660	10	MPN/100ml	14-Jul-21	SM9223:B
------------------	------	----	-----------	-----------	----------

Escherichia coli	< 10.0	10	MPN/100ml	14-Jul-21	SM9223:B
------------------	--------	----	-----------	-----------	----------

### Organics

Hexane Extractable Material	< 2.0	2.0	mg/L	20-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

### Trace Metals, Total

Aluminum	339	5	µg/L	27-Jul-21	EPA200.8
----------	-----	---	------	-----------	----------

Antimony	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
----------	-------	-----	------	-----------	----------

Arsenic	3.4	0.2	µg/L	27-Jul-21	EPA200.8
---------	-----	-----	------	-----------	----------

Barium	27.6	0.1	µg/L	27-Jul-21	EPA200.8
--------	------	-----	------	-----------	----------

Beryllium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
-----------	-------	-----	------	-----------	----------

Bismuth	< 0.2	0.2	µg/L	27-Jul-21	EPA200.8
---------	-------	-----	------	-----------	----------

Boron	43.2	0.9	µg/L	27-Jul-21	EPA200.8
-------	------	-----	------	-----------	----------

Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
---------	-------	-----	------	-----------	----------

Cesium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
--------	-------	-----	------	-----------	----------

Chromium	1.0	0.1	µg/L	27-Jul-21	EPA200.8
----------	-----	-----	------	-----------	----------

Cobalt	1.4	0.1	µg/L	27-Jul-21	EPA200.8
--------	-----	-----	------	-----------	----------

Copper	0.8	0.2	µg/L	27-Jul-21	EPA200.8
--------	-----	-----	------	-----------	----------

Iron	2960	5	µg/L	27-Jul-21	EPA200.8
------	------	---	------	-----------	----------

Lead	0.3	0.1	µg/L	27-Jul-21	EPA200.8
------	-----	-----	------	-----------	----------

Lithium	8.0	0.2	µg/L	27-Jul-21	EPA200.8
---------	-----	-----	------	-----------	----------

Manganese	493	0.1	µg/L	27-Jul-21	EPA200.8
-----------	-----	-----	------	-----------	----------

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R3**

Taiga Sample ID: **001**

Mercury	0.02	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	0.3	0.1	µg/L	27-Jul-21	EPA200.8
Nickel	2.1	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	2.4	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	75.5	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	10.5	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	3.6	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	1.3	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	271	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021  
Print Date: *Friday, July 30, 2021*



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R6**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	11	2	mg/L	15-Jul-21	SM5210:B	
CBOD	9	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	0.98	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	1.64	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	< 0.002	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.009	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	0.188	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	271	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	1060	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	7.63		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	614	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	178	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R6**

Taiga Sample ID: **002**

**Microbiology**

Coliforms, Fecal	< 1	1	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	>2420	1.0	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	2.0	1.0	MPN/100ml	14-Jul-21	SM9223:B

**Organics**

Hexane Extractable Material	< 2.0	2.0	mg/L	20-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

**Trace Metals, Total**

Aluminum	555	5	µg/L	27-Jul-21	EPA200.8
Antimony	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	3.7	0.2	µg/L	27-Jul-21	EPA200.8
Barium	109	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	< 0.2	0.2	µg/L	27-Jul-21	EPA200.8
Boron	47.7	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	0.8	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	1.0	0.1	µg/L	27-Jul-21	EPA200.8
Copper	0.9	0.2	µg/L	27-Jul-21	EPA200.8
Iron	2050	5	µg/L	27-Jul-21	EPA200.8
Lead	0.4	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	11.7	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	1090	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	0.03	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	0.2	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R6**

Taiga Sample ID: **002**

Nickel	1.5	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	5.1	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	564	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	28.4	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	2.4	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	1.1	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	6.0	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021  
Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R2**

Taiga Sample ID: **003**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Rae Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	9.79	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	23	2	mg/L	15-Jul-21	SM5210:B	
CBOD	14	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	16.3	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	22.3	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	3.04	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	3.21	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	5.05	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	140	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	542	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	8.86		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	354	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	270	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	3.11	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**





# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R2**

Taiga Sample ID: **003**

### Microbiology

Coliforms, Fecal	10	10	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	30800	100	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	100.0	100	MPN/100ml	14-Jul-21	SM9223:B

### Organics

Hexane Extractable Material	< 2.0	2.0	mg/L	20-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

### Trace Metals, Total

Aluminum	5810	5	µg/L	27-Jul-21	EPA200.8
Antimony	0.3	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	3.6	0.2	µg/L	27-Jul-21	EPA200.8
Barium	90.4	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	0.4	0.2	µg/L	27-Jul-21	EPA200.8
Boron	346	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	0.9	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	11.0	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	4.1	0.1	µg/L	27-Jul-21	EPA200.8
Copper	10.8	0.2	µg/L	27-Jul-21	EPA200.8
Iron	6170	5	µg/L	27-Jul-21	EPA200.8
Lead	2.9	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	15.7	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	253	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	0.6	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R2**

Taiga Sample ID: **003**

Nickel	10.6	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	30.2	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	95.4	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	244	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	1.7	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	12.5	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	21.9	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021  
Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R8**

Taiga Sample ID: **004**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.014	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	17	2	mg/L	15-Jul-21	SM5210:B	
CBOD	19	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	1.87	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	2.48	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.005	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.039	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	0.757	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	230	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	550	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	8.39		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	378	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	1030	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	0.01	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R8**

Taiga Sample ID: **004**

**Microbiology**

Coliforms, Fecal	< 1	1	CFU/100mL	14-Jul-21	SM9222:D	20
Coliforms, Total	>2420	1.0	MPN/100ml	14-Jul-21	SM9223:B	
Escherichia coli	27.5	1.0	MPN/100ml	14-Jul-21	SM9223:B	

**Organics**

Hexane Extractable Material	< 2.0	2.0	mg/L	20-Jul-21	EPA1664A	
-----------------------------	-------	-----	------	-----------	----------	--

**Trace Metals, Total**

Aluminum	4470	5	µg/L	27-Jul-21	EPA200.8	
Antimony	0.2	0.1	µg/L	27-Jul-21	EPA200.8	
Arsenic	5.6	0.2	µg/L	27-Jul-21	EPA200.8	
Barium	82.9	0.1	µg/L	27-Jul-21	EPA200.8	
Beryllium	0.1	0.1	µg/L	27-Jul-21	EPA200.8	
Bismuth	< 0.2	0.2	µg/L	27-Jul-21	EPA200.8	249
Boron	156	0.9	µg/L	27-Jul-21	EPA200.8	
Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8	
Cesium	0.6	0.1	µg/L	27-Jul-21	EPA200.8	
Chromium	8.5	0.1	µg/L	27-Jul-21	EPA200.8	
Cobalt	2.9	0.1	µg/L	27-Jul-21	EPA200.8	
Copper	5.4	0.2	µg/L	27-Jul-21	EPA200.8	
Iron	5440	5	µg/L	27-Jul-21	EPA200.8	
Lead	2.1	0.1	µg/L	27-Jul-21	EPA200.8	
Lithium	15.9	0.2	µg/L	27-Jul-21	EPA200.8	
Manganese	204	0.1	µg/L	27-Jul-21	EPA200.8	
Mercury	0.01	0.01	µg/L	27-Jul-21	EPA200.8	
Molybdenum	0.4	0.1	µg/L	27-Jul-21	EPA200.8	

ReportDate: Thursday, July 29, 2021

Print Date: Friday, July 30, 2021



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R8**

Taiga Sample ID: **004**

Nickel	8.1	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	11.1	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	180	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	194	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	4.5	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	9.0	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	13.3	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021  
Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R9**

Taiga Sample ID: **005**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Rae Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.007	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	5	2	mg/L	15-Jul-21	SM5210:B	
CBOD	3	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	1.33	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	1.53	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.004	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.017	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	0.072	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	99.8	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	211	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	7.54		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	176	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	16	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R9**

Taiga Sample ID: **005**

**Microbiology**

Coliforms, Fecal	< 1	1	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	>2420	1.0	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	2.0	1.0	MPN/100ml	14-Jul-21	SM9223:B

**Organics**

Hexane Extractable Material	< 2.0	2.0	mg/L	21-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

**Trace Metals, Total**

Aluminum	103	5	µg/L	27-Jul-21	EPA200.8
Antimony	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	2.7	0.2	µg/L	27-Jul-21	EPA200.8
Barium	28.2	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	< 0.2	0.2	µg/L	27-Jul-21	EPA200.8
Boron	16.7	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	0.4	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	0.9	0.1	µg/L	27-Jul-21	EPA200.8
Copper	0.5	0.2	µg/L	27-Jul-21	EPA200.8
Iron	1820	5	µg/L	27-Jul-21	EPA200.8
Lead	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	9.1	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	668	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	0.2	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R9**

Taiga Sample ID: **005**

Nickel	1.9	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	0.8	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	76.8	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	3.2	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	0.6	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	< 5.0	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*





# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R10**

Taiga Sample ID: **006**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.011	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	3	2	mg/L	15-Jul-21	SM5210:B	
CBOD	2	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	1.73	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	1.85	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.006	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.031	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	0.050	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	185	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	653	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	7.79		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	428	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	8	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **R10**

Taiga Sample ID: **006**

**Microbiology**

Coliforms, Fecal	17	1	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	1550	1.0	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	13.5	1.0	MPN/100ml	14-Jul-21	SM9223:B

**Organics**

Hexane Extractable Material	< 2.0	2.0	mg/L	21-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

**Trace Metals, Total**

Aluminum	14.6	5	µg/L	27-Jul-21	EPA200.8
Antimony	0.1	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	1.7	0.2	µg/L	27-Jul-21	EPA200.8
Barium	42.8	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	< 0.2	0.2	µg/L	27-Jul-21	EPA200.8
Boron	330	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	0.3	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Copper	0.4	0.2	µg/L	27-Jul-21	EPA200.8
Iron	110	5	µg/L	27-Jul-21	EPA200.8
Lead	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	9.0	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	55.5	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:

**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **R10**

Taiga Sample ID: **006**

Nickel	2.8	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	1.2	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	171	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	0.7	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	0.7	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	0.4	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	< 5.0	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*

Page 19 of 29



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E3**

Taiga Sample ID: **007**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Edzo Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	18.8	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	72	2	mg/L	15-Jul-21	SM5210:B	55
CBOD	76	2	mg/L	15-Jul-21	SM5210:B	55
Nitrogen, Dissolved	22.6	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	34.8	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.063	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.096	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	4.02	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	188	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	582	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	7.15		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	285	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	695	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	0.01	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E3**

Taiga Sample ID: **007**

### Microbiology

Coliforms, Fecal	29000	1000	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	548000	1000	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	64500	1000	MPN/100ml	14-Jul-21	SM9223:B

### Organics

Hexane Extractable Material	7.2	2.0	mg/L	21-Jul-21	EPA1664A
-----------------------------	-----	-----	------	-----------	----------

### Trace Metals, Total

Aluminum	104000	5	µg/L	27-Jul-21	EPA200.8
Antimony	5.7	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	43.8	0.2	µg/L	27-Jul-21	EPA200.8
Barium	2650	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	2.4	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	160	0.2	µg/L	27-Jul-21	EPA200.8
Boron	190	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	4.3	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	4.0	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	71.4	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	87.8	0.1	µg/L	27-Jul-21	EPA200.8
Copper	2640	0.2	µg/L	27-Jul-21	EPA200.8
Iron	346000	5	µg/L	27-Jul-21	EPA200.8
Lead	58.0	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	55.2	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	2480	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	0.15	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	276	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E3**

Taiga Sample ID: **007**

Nickel	94.8	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	74.4	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	9.2	0.5	µg/L	27-Jul-21	EPA200.8
Silver	1.9	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	816	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	0.8	0.1	µg/L	27-Jul-21	EPA200.8
Tin	13.6	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	690	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	17.8	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	88.5	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	4040	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **E4**

Taiga Sample ID: **008**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Edzo Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.010	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	20	2	mg/L	15-Jul-21	SM5210:B	
CBOD	19	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	1.80	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	2.65	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.153	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.193	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	1.48	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	75.6	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	270	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	6.81		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	244	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	6800	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **E4**

Taiga Sample ID: **008**

**Microbiology**

Coliforms, Fecal	40	10	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	>2420	1.0	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	12.2	1.0	MPN/100ml	14-Jul-21	SM9223:B

**Organics**

Hexane Extractable Material	< 2.0	2.0	mg/L	21-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

**Trace Metals, Total**

Aluminum	13300	5	µg/L	27-Jul-21	EPA200.8
Antimony	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	5.6	0.2	µg/L	27-Jul-21	EPA200.8
Barium	202	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	0.5	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	< 0.2	0.2	µg/L	27-Jul-21	EPA200.8
Boron	60.2	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	0.1	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	1.8	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	29.5	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	10.4	0.1	µg/L	27-Jul-21	EPA200.8
Copper	20.2	0.2	µg/L	27-Jul-21	EPA200.8
Iron	19000	5	µg/L	27-Jul-21	EPA200.8
Lead	7.3	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	25.8	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	727	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	0.02	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	0.2	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*





# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E4**

Taiga Sample ID: **008**

Nickel	23.8	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	37.2	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	0.9	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	192	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	0.3	0.1	µg/L	27-Jul-21	EPA200.8
Tin	0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	544	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	0.9	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	28.0	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	54.3	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



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

Taiga Batch No.:  
**211149**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **E2**

Taiga Sample ID: **009**

Client Project: W2014L3-0002

Sample Type: Wastewater

Received Date: 15-Jul-21

Sampling Date: 14-Jul-21

Sampling Time:

Location: Edzo Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	21.2	0.005	mg/L	15-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	25	2	mg/L	15-Jul-21	SM5210:B	
CBOD	25	2	mg/L	15-Jul-21	SM5210:B	
Nitrogen, Dissolved	24.7	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	29.6	0.06	mg/L	16-Jul-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.283	0.002	mg/L	16-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	0.384	0.002	mg/L	15-Jul-21	SM4500-P:D	
Phosphorous, Total	1.19	0.002	mg/L	15-Jul-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	168	0.4	mg/L	14-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	557	0.4	µS/cm	14-Jul-21	SM2510:B	
pH	7.11		pH units	14-Jul-21	SM4500-H:B	
Solids, Total Dissolved	294	10	mg/L	20-Jul-21	SM2540:C	
Solids, Total Suspended	48	3	mg/L	20-Jul-21	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	15-Jul-21	SM4110:B	

ReportDate: Thursday, July 29, 2021

Print Date: **Friday, July 30, 2021**



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:  
**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E2**

Taiga Sample ID: **009**

### Microbiology

Coliforms, Fecal	160000	10000	CFU/100mL	14-Jul-21	SM9222:D
Coliforms, Total	>2420	1000	MPN/100ml	14-Jul-21	SM9223:B
Escherichia coli	184000	1000	MPN/100ml	14-Jul-21	SM9223:B

### Organics

Hexane Extractable Material	< 2.0	2.0	mg/L	21-Jul-21	EPA1664A
-----------------------------	-------	-----	------	-----------	----------

### Trace Metals, Total

Aluminum	755	5	µg/L	27-Jul-21	EPA200.8
Antimony	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Arsenic	0.9	0.2	µg/L	27-Jul-21	EPA200.8
Barium	27.6	0.1	µg/L	27-Jul-21	EPA200.8
Beryllium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Bismuth	0.9	0.2	µg/L	27-Jul-21	EPA200.8
Boron	133	0.9	µg/L	27-Jul-21	EPA200.8
Cadmium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Cesium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Chromium	0.5	0.1	µg/L	27-Jul-21	EPA200.8
Cobalt	0.4	0.1	µg/L	27-Jul-21	EPA200.8
Copper	18.2	0.2	µg/L	27-Jul-21	EPA200.8
Iron	539	5	µg/L	27-Jul-21	EPA200.8
Lead	0.5	0.1	µg/L	27-Jul-21	EPA200.8
Lithium	6.5	0.2	µg/L	27-Jul-21	EPA200.8
Manganese	97.8	0.1	µg/L	27-Jul-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	27-Jul-21	EPA200.8
Molybdenum	1.1	0.1	µg/L	27-Jul-21	EPA200.8

249

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



# Taiga Environmental Laboratory

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

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

Taiga Batch No.:

**211149**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E2**

Taiga Sample ID: **009**

Nickel	1.2	0.1	µg/L	27-Jul-21	EPA200.8
Rubidium	8.3	0.1	µg/L	27-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	27-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Strontium	182	0.1	µg/L	27-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	27-Jul-21	EPA200.8
Tin	0.1	0.1	µg/L	27-Jul-21	EPA200.8
Titanium	7.4	0.1	µg/L	27-Jul-21	EPA200.8
Uranium	0.2	0.1	µg/L	27-Jul-21	EPA200.8
Vanadium	0.5	0.1	µg/L	27-Jul-21	EPA200.8
Zinc	30.9	5	µg/L	27-Jul-21	EPA200.8

ReportDate: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*



## Taiga Environmental Laboratory

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

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

Taiga Batch No.:

**211149**

---

### - CERTIFICATE OF ANALYSIS -

---

Client Sample ID: **E2**

Taiga Sample ID: **009**

---

### - DATA QUALIFIERS -

---

*Data Qualifier Descriptions:*

- 20 *Possible matrix interference, reported result uncertain.*
- 249 *Taiga Environmental Laboratory is not accredited for this test.*
- 55 *BOD result is inconclusive; residual DO was less than 1 mg/L. For evaluation purposes only.*

**\* 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: Thursday, July 29, 2021

Print Date: *Friday, July 30, 2021*

*Page 29 of 29*