



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

Taiga Batch No.:
180428

- FINAL REPORT -

Prepared For: Environment Canada

Address: 123 Main Street
Suite 150
Winnipeg, MB
R3C 4W2

Attn: Don Lavallee

Facsimile:

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
 - o Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - o Environment Canada
 - o 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.

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Taiga Batch No.:
180428

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR3 JUN 24**

Taiga Sample ID: **001**

Client Project:

Sample Type: Sewage

Received Date: 24-Jun-18

Sampling Date: 24-Jun-18

Sampling Time: 6:00

Location: Eureka Sewage Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	25.5	0.005	mg/L	26-Jun-18	SM4500-NH3:G	
Biochemical Oxygen Demand	119	2	mg/L	25-Jun-18	SM5210:B	
Phosphorous, Total	4.64	0.002	mg/L	29-Jun-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	6450	0.4	µS/cm	25-Jun-18	SM2510:B	
pH	7.35		pH units	25-Jun-18	SM4500-H:B	
Solids, Total Dissolved	3810	10	mg/L	28-Jun-18	SM2540:C	
Solids, Total Suspended	60	3	mg/L	28-Jun-18	SM2540:D	
<u>Major Ions</u>						
Calcium	145	0.1	mg/L	27-Jun-18	SM4110:B	
Magnesium	75.0	0.1	mg/L	27-Jun-18	SM4110:B	
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	27-Jun-18	SM4110:B	
Potassium	35.4	0.1	mg/L	27-Jun-18	SM4110:B	
Sodium	1160	0.1	mg/L	27-Jun-18	SM4110:B	
Sulphate	616	1	mg/L	27-Jun-18	SM4110:B	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR3 JUN 24

Taiga Sample ID: 001

Microbiology

Coliforms, Fecal	7200	100	CFU/100mL	24-Jun-18	SM9222:D
Coliforms, Total	1010	1.0	MPN/100mL	24-Jun-18	SM9223:B

Organics

Oil and Grease, visible	Non-visible			24-Jun-18	Visual Exam
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Subcontracted Nutrients

Kjeldahl Nitrogen, Total	33.9	0.05	mg/L	09-Jul-18	APHA4500-NORG (T
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Subcontracted Organics

Phenols, Total	0.0079	0.001	mg/L	17-Jul-18	AB ENV.06537
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Trace Metals, Total

Cadmium	0.2	0.1	µg/L	03-Jul-18	EPA200.8
Chromium	1.9	0.1	µg/L	03-Jul-18	EPA200.8
Cobalt	1.2	0.1	µg/L	03-Jul-18	EPA200.8
Copper	139	0.2	µg/L	03-Jul-18	EPA200.8
Iron	1380	5	µg/L	03-Jul-18	EPA200.8
Lead	1.9	0.1	µg/L	03-Jul-18	EPA200.8
Manganese	81.0	0.1	µg/L	03-Jul-18	EPA200.8
Nickel	14.1	0.1	µg/L	03-Jul-18	EPA200.8
Zinc	123	5	µg/L	03-Jul-18	EPA200.8

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Taiga Batch No.:

180428

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR-2 JUN 24**

Taiga Sample ID: **002**

Client Project:

Sample Type: Runoff Solid Wastewater

Received Date: 24-Jun-18

Sampling Date: 24-Jun-18

Sampling Time: 6:00

Location: Eureka Sewage Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.189	0.005	mg/L	26-Jun-18	SM4500-NH3:G	
Biochemical Oxygen Demand	6	2	mg/L	25-Jun-18	SM5210:B	
Phosphorous, Total	0.228	0.002	mg/L	29-Jun-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	1520	0.4	µS/cm	25-Jun-18	SM2510:B	
pH	7.90		pH units	25-Jun-18	SM4500-H:B	
Solids, Total Dissolved	996	10	mg/L	28-Jun-18	SM2540:C	
Solids, Total Suspended	74	3	mg/L	28-Jun-18	SM2540:D	
<u>Major Ions</u>						
Calcium	61.9	0.1	mg/L	26-Jun-18	SM4110:B	
Magnesium	30.2	0.1	mg/L	26-Jun-18	SM4110:B	
Nitrate+Nitrite as Nitrogen	0.76	0.01	mg/L	26-Jun-18	SM4110:B	
Potassium	10.4	0.1	mg/L	26-Jun-18	SM4110:B	
Sodium	188	0.1	mg/L	26-Jun-18	SM4110:B	
Sulphate	197	1	mg/L	26-Jun-18	SM4110:B	
<u>Microbiology</u>						

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR-2 JUN 24**

Taiga Sample ID: **002**

Coliforms, Fecal	< 10	10	CFU/100mL	24-Jun-18	SM9222:D
Coliforms, Total	3.1	1.0	MPN/100mL	24-Jun-18	SM9223:B

Organics

Benzene	< 0.002	0.002	mg/L	26-Jun-18	EPA8260B
Ethylbenzene	< 0.002	0.002	mg/L	26-Jun-18	EPA8260B
F2: C10-C16	< 0.2	0.2	mg/L	27-Jun-18	EPA8015B
F3: C16-C34	< 0.2	0.2	mg/L	27-Jun-18	EPA8015B
F4: C34-C50	< 0.2	0.2	mg/L	27-Jun-18	EPA8015B
Hydrocarbons, Total Extractable	0.3	0.2	mg/L	27-Jun-18	EPA8015B
Oil and Grease, visible	Non-visible			24-Jun-18	Visual Exam
Toluene	< 0.002	0.002	mg/L	26-Jun-18	EPA8260B
Xylenes	< 0.002	0.002	mg/L	26-Jun-18	EPA8260B

Subcontracted Nutrients

Kjeldahl Nitrogen, Total	1.16	0.05	mg/L	09-Jul-18	APHA4500-NORG (T
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Subcontracted Organics

Phenols, Total	0.0011	0.001	mg/L	17-Jul-18	AB ENV.06537
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Trace Metals, Total

Aluminum	16800	5	µg/L	03-Jul-18	EPA200.8
Antimony	0.2	0.1	µg/L	03-Jul-18	EPA200.8
Arsenic	4.6	0.2	µg/L	03-Jul-18	EPA200.8
Barium	87.8	0.1	µg/L	03-Jul-18	EPA200.8
Beryllium	0.5	0.1	µg/L	03-Jul-18	EPA200.8
Bismuth	< 0.2	0.2	µg/L	03-Jul-18	EPA200.8
Boron	177	0.9	µg/L	03-Jul-18	EPA200.8
Cadmium	0.1	0.1	µg/L	03-Jul-18	EPA200.8

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Cesium	1.7	0.1	µg/L	03-Jul-18	EPA200.8
Chromium	18.6	0.1	µg/L	03-Jul-18	EPA200.8
Cobalt	3.4	0.1	µg/L	03-Jul-18	EPA200.8
Copper	8.7	0.2	µg/L	03-Jul-18	EPA200.8
Iron	12700	5	µg/L	03-Jul-18	EPA200.8
Lead	4.6	0.1	µg/L	03-Jul-18	EPA200.8
Lithium	32.9	0.2	µg/L	03-Jul-18	EPA200.8
Manganese	87.2	0.1	µg/L	03-Jul-18	EPA200.8
Mercury	0.02	0.01	µg/L	03-Jul-18	EPA200.8
Molybdenum	1.2	0.1	µg/L	03-Jul-18	EPA200.8
Nickel	9.3	0.1	µg/L	03-Jul-18	EPA200.8
Rubidium	22.2	0.1	µg/L	03-Jul-18	EPA200.8
Selenium	1.0	0.5	µg/L	03-Jul-18	EPA200.8
Silver	< 0.1	0.1	µg/L	03-Jul-18	EPA200.8
Strontium	325	0.1	µg/L	03-Jul-18	EPA200.8
Thallium	0.1	0.1	µg/L	03-Jul-18	EPA200.8
Tin	0.7	0.1	µg/L	03-Jul-18	EPA200.8
Titanium	834	0.1	µg/L	03-Jul-18	EPA200.8
Uranium	1.7	0.1	µg/L	03-Jul-18	EPA200.8
Vanadium	35.0	0.1	µg/L	03-Jul-18	EPA200.8
Zinc	32.8	5	µg/L	03-Jul-18	EPA200.8

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*** 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

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