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

Taiga Batch No.: 180921

- FINAL REPORT -

Prepared For: Community Government of Wekweeti

Address: P.O. Box 69
Wekweeti,NT
X1A 1W0

Attn: **Robert Moretti** **Facsimile: (867) 713-2030**

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, October 04, 2018
Print Date: ***Thursday, October 04, 2018***

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Taiga Batch No.: 180921

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 001-2 **Taiga Sample ID:** 001

Client Project: W2007L3-0001
Sample Type: Sewage Effluent
Received Date: 11-Sep-18
Sampling Date: 11-Sep-18
Sampling Time: 11:00
Location: Wekweeti
Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
Inorganics - Nutrients						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	12-Sep-18	SM4500-NH3:G	
Biochemical Oxygen Demand	2	2	mg/L	12-Sep-18	SM5210:B	
Inorganics - Physicals						
pH	7.20		pH units	11-Sep-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	13-Sep-18	SM2540:D	
Microbiology						
Coliforms, Fecal	< 1	1	CFU/100mL	12-Sep-18	SM9222:D	
Organics						
Hexane Extractable Material	< 2.0	2.0	mg/L	12-Sep-18	EPA1664A	
Trace Metals, Total						
Mercury	< 0.01	0.01	µg/L	03-Oct-18	EPA200.8	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 001-3 **Taiga Sample ID:** 002

Client Project: W2007L3-0001
Sample Type: Water
Received Date: 11-Sep-18
Sampling Date: 11-Sep-18
Sampling Time: 11:00
Location: Wekweeti
Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
Inorganics - Nutrients						
Ammonia as Nitrogen	21.7	0.005	mg/L	12-Sep-18	SM4500-NH3:G	
Biochemical Oxygen Demand	37	2	mg/L	12-Sep-18	SM5210:B	
Inorganics - Physicals						
pH	7.36		pH units	11-Sep-18	SM4500-H:B	
Solids, Total Suspended	92	3	mg/L	13-Sep-18	SM2540:D	
Microbiology						
Coliforms, Fecal	40000	10000	CFU/100mL	12-Sep-18	SM9222:D	
Organics						
Hexane Extractable Material	5.4	2.0	mg/L	12-Sep-18	EPA1664A	
Trace Metals, Total						
Mercury	< 0.01	0.01	µg/L	03-Oct-18	EPA200.8	

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Taiga Batch No.: 180921

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 001-4 **Taiga Sample ID:** 003

Client Project: W2007L3-0001
Sample Type: Wastewater
Received Date: 11-Sep-18
Sampling Date: 11-Sep-18
Sampling Time: 11:00
Location: Wekweeti
Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
Inorganics - Physicals						
pH	7.66		pH units	11-Sep-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	13-Sep-18	SM2540:D	
Trace Metals, Total						
Aluminum	8.8	0.6	µg/L	03-Oct-18	EPA200.8	
Antimony	< 0.1	0.1	µg/L	03-Oct-18	EPA200.8	
Arsenic	0.2	0.2	µg/L	03-Oct-18	EPA200.8	
Barium	15.0	0.1	µg/L	03-Oct-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	03-Oct-18	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	03-Oct-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	03-Oct-18	EPA200.8	
Chromium	0.1	0.1	µg/L	03-Oct-18	EPA200.8	
Cobalt	0.1	0.1	µg/L	03-Oct-18	EPA200.8	
Copper	1.0	0.2	µg/L	03-Oct-18	EPA200.8	
Iron	95	5	ug/L	03-Oct-18	EPA200.8	
Lead	< 0.1	0.1	µg/L	03-Oct-18	EPA200.8	
Lithium	0.6	0.2	µg/L	03-Oct-18	EPA200.8	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 001-4 **Taiga Sample ID:** 003

Manganese	34.5	0.1	µg/L	03-Oct-18	EPA200.8
Molybdenum	0.2	0.1	µg/L	03-Oct-18	EPA200.8
Nickel	0.6	0.1	µg/L	03-Oct-18	EPA200.8
Rubidium	3.7	0.1	µg/L	03-Oct-18	EPA200.8
Selenium	< 0.3	0.3	µg/L	03-Oct-18	EPA200.8
Silver	< 0.1	0.1	µg/L	03-Oct-18	EPA200.8
Strontium	63.6	0.1	µg/L	03-Oct-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	03-Oct-18	EPA200.8
Titanium	0.3	0.1	µg/L	03-Oct-18	EPA200.8
Uranium	0.2	0.1	µg/L	03-Oct-18	EPA200.8
Vanadium	0.1	0.1	µg/L	03-Oct-18	EPA200.8
Zinc	0.7	0.4	µg/L	03-Oct-18	EPA200.8

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 001-4 **Taiga Sample ID:** 003

*** 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, October 04, 2018

Print Date: *Thursday, October 04, 2018*

LABORATOIRE ENVIRONNEMENTAL TAIGA
4601 – 52 Avenue, P.O. Box 1500, Yellowknife, NT X1A 2R3
Tel: (867) 669-2788 • Fax: (867) 669-2718
www.enr.gov.ca

Batch No.: 180921

Send Results & Invoice to:
(Please notify if results or invoice are to be sent to different locations)

Company/Agency: Community Government of Wekweeti
Address: P.O Box 69
City/Town: Wekweeti Province/Territory: NT
Postal Code: X0E 1W0
Phone: 867-713-2010 Fax:
E-mail: wekweetisao@northwestel.net; please also email results to nahum_lee@gov.nt.ca, jpacunayen@wlwb.ca, and rjudas@wlwb.ca
Signature: *

Client Project No: W2007L3-0001
Date collected: Sept 11 - 2018
Time collected: 11:00 AM
Sampler: Paul Football
Location: Wekweeti
Rush Required: ☐Yes ☑No (Surcharge applies, please check with Laboratory for price and availability)
Note: *Analysis may be subcontracted without prior notice.*
Date Received: Sept 11/18 Received By:
Comments: @16:33
(Laboratory use only)

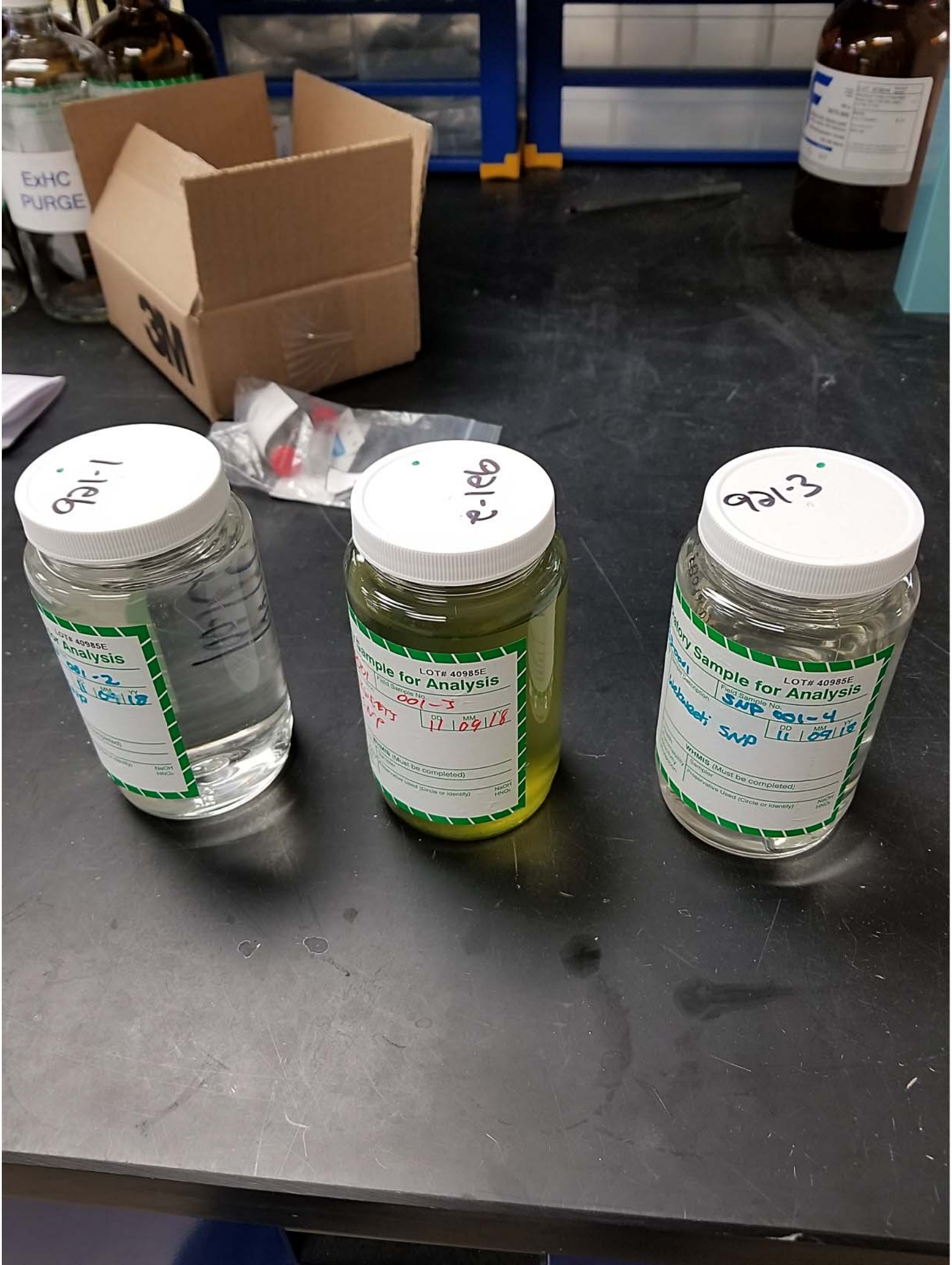
-WATER SAMPLES –

Sample Type (freshwater, sewage, wastewater, potable, groundwater, salt water, etc)	Sewage effluent	water	Wastewater
Client Sample ID (As it should appear on final report)	001-2	001-3	001-4
Taiga Sample ID (Laboratory use only)	001	002	003

Bottle Type and Parameter | [√] PLEASE CHECK PARAMETERS REQUESTED BELOW:

Routine pH, Conductivity, Alkalinity	pH Cond Alk	pH Cond Alk	pH Cond Alk
Individual Anions Suite ☐	Cl SO_4 F NO_2-N NO_3-N	Cl SO_4 F NO_2-N NO_3-N	Cl SO_4 F NO_2-N NO_3-N
Total Nitrite (NO_2) + Nitrate (NO_3)	$NO_2 + NO_3$-N	$NO_2 + NO_3$-N	$NO_2 + NO_3$-N
Individual Cations Suite ☐	Ca Mg Na K	Ca Mg Na K	Ca Mg Na K
Hardness (Calculated)	Hardness	Hardness	Hardness
Reactive Silica	SiO_2	SiO_2	SiO_2
Color	Apparent True	Apparent True	Apparent True
Laboratory use only	Rec'd Y N	Rec'd Y N	Rec'd Y N
Nutrients Chemical Oxygen Demand	COD	COD	COD
Nitrogen Total Dissolved	TN DN	TN DN	TN DN
Turbidity	Turbidity	Turbidity	Turbidity
Total Suspended Solids, Dissolved Solids	TSS TDS	TSS TDS	TSS TDS
Ammonia	NH_3	NH_3	NH_3-N
Phosphorus Total Dissolved Ortho	TP DP OP	TP DP OP	TP DP OP
Carbon Total Dissolved	TOC DOC	TOC DOC	TOC DOC
Chlorine Total Residual	T. Cl R. Cl	T. Cl R. Cl	T. Cl R. Cl
Visible Oil and Grease	Visible	Visible	Visible
Laboratory use only	Received Y N	Received Y N	Received Y N
Sterile Fecal Coliforms (FC)	FC	FC	FC
Total Coliforms (TC), E. Coli (EC)	TC EC	TC EC	TC EC
Fecal Streptococcus (FS)	FS	FS	FS
Laboratory use only	Received Y N T 5.8 °C Sterile container Y N	Received Y N T 5.8 °C Sterile container Y N	Received Y N T °C Sterile container Y N
Biological Oxygen Demand	BOD	BOD	BOD
Laboratory use only	Received Y N T °C	Received Y N T °C	Received Y N T °C
Metals Please indicate if sample is preserved and/or filtered	Pres ☐ Filt ☐ Pres ☐	Pres ☐ Filt ☐ Pres ☐	Pres ☐ Filt ☐ Pres ☐
ICP-MS(1): Cd, Cr, Cu, Co, Mn, Ni, Pb, Zn, Fe	Total Dissolved	Total Dissolved	Total Dissolved
ICP-MS(2): 25 element scan includes As (not included B, Bi, Hg, Sn)	Total Dissolved	Total Dissolved	Total Dissolved
Individual Metals by ICP-MS (please circle each metal) Ag, Al, As, B, Ba, Be, Bi, Cd, Co, Cr, Ca, Cu, Fe, Hg, Li, Mn, Mo, Ni, Pb, Rb, Sb, Se, Sn, Sr, Ti, Tl, U, V, Zn	Total Dissolved	Total Dissolved	Total Dissolved
Laboratory use only	TM rec'd Y N DM rec'd Y N	TM rec'd Y N DM rec'd Y N	TM rec'd Y N DM rec'd Y N
Hexane Extractable Material (O&G)	HEM	HEM	HEM
Laboratory use only	Rec'd Y N Pres Y N	Rec'd Y N Pres Y N	Rec'd Y N Pres Y N
BTEX, Purgeable HC (40mL x 2 vials)	BTEX Purg HC	BTEX Purg HC	BTEX Purg HC
Extractable HC (1L amber glass bottle)	Ext HC	Ext HC	Ext HC
Trihalomethanes (40 mL x 2 vials)	THM	THM	THM
Laboratory use only	Vial rec'd Y N Ext rec'd Y N	Vial rec'd Y N Ext rec'd Y N	Vial rec'd Y N Ext rec'd Y N
Other: *see special request form*			

For safety purposes, please disclose any contaminants (e.g. heavy metals, cyanide, etc.) that may be present at high levels and pose a risk to human health


ExHC
PURGE
3M
LOT# 40985E
Analysis
LOT# 40985E
Sample for Analysis
LOT# 40985E
Story Sample for Analysis
Field Sample No.
SNP 001-4
DD 11 MM 09 YY 18
WHMIS (Must be completed)
Preservative Used (Circle or identify)
NaOH
HNO3