

From: Wendy Bidwell
To: [Susan Christie](#)
Cc: [Erica Janes](#); provwork@ssimicro.com
Subject: RE: Emailing: 170493 - 1718 - FINAL REPORT, 170493 - 1718 -FINAL REPORT (MV2016L3-0001 - SNP 1412-2 Sample Results for Request to Decant Cell #5 of Sewage Lagoons - Decant Approved by Inspector)
Date: Tuesday, August 1, 2017 4:38:19 PM
Attachments: [170493 - 1718 - FINAL REPORT.PDF](#)
[170493 - 1718 -FINAL REPORT.XLS](#)
Importance: High

Hi Susan,

Thanks for forwarding on the sample results for SNP 1412-2. I have attached them to this email as results are to be sent to the Regulatory Officer at the MVLWB as well (Erica Janes has been cc'd above).

I have reviewed the sample results and they meet the licence Effluent Quality criteria. Thus, the Hamlet is approved to proceed with decant operations at Cell #5 of the Sewage Disposal Facilities.

For future reference, I spoke with Clifford and relayed to him that cool packs need to be included in the sample cooler at all times to keep samples cool at 4 degrees Celsius. I also noted that he should collect a second CBOD bottle in future as sometimes the lab runs out of sample to perform the analysis (as is the case with this round of results).

In addition, Clifford noted that he plans to commence decant operations on August 8, 2017 and that operations will take approximately a month to complete. He indicated that discharge volumes will be estimated based on flow rates captured in a daily log. Total effluent discharge volumes will need to be included in the annual water licence report, so it's important that this information is tracked and recorded. I requested that the Hamlet let me know when decant operations are complete.

Please extend my thanks to Clifford for taking initiative and getting the lagoon decant started earlier this year. If either of you have any questions or concerns regarding decant operations, please don't hesitate to contact me.

Regards,

Wendy

Mársi | Kinanaskomitin | Thank you | Merci | Hai' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi
Wendy Bidwell
Water Resource Officer
South Slave Region
Department of Environment and Natural Resources
Government of the Northwest Territories

Highway #5
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strictly prohibited. If you have received this communication in error, please delete it immediately and notify us by telephone. Thank you.

-----Original Message-----

From: Susan Christie [<mailto:sao@fortprovidence.ca>]
Sent: Tuesday, August 01, 2017 3:49 PM
To: Wendy Bidwell
Subject: FW: Emailing: 170493 - 1718 - FINAL REPORT, 170493 - 1718 -FINAL REPORT

Here are the lab results for sewage lagoon sample.

-----Original Message-----

From: Robert [<mailto:provwork@ssimicro.com>]
Sent: Tuesday, August 01, 2017 2:38 PM
To: sao@fortprovidence.ca
Subject: FW: Emailing: 170493 - 1718 - FINAL REPORT, 170493 - 1718 -FINAL REPORT

-----Original Message-----

From: Glen Hudy [mailto:Glen_Hudy@gov.nt.ca] On Behalf Of taiga
Sent: August 1, 2017 9:42 AM
To: provwork@ssimicro.com
Subject: Emailing: 170493 - 1718 - FINAL REPORT, 170493 - 1718 -FINAL REPORT

Robert,

Please see attached for final report 170493.

Have a good day.

Mársi | Kinanaskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi Glen Hudy Chemist, Quality Assurance Water Resources Environment and Natural Resources Government of the Northwest Territories

Taiga Environmental Laboratory
PO Box 1320
Yellowknife, NT X1A 2L9

Phone: 867-767-9235 Ext. 53154
Fax: 867-920-8740
www.enr.gov.nt.ca

Your message is ready to be sent with the following file or link attachments:

170493 - 1718 - FINAL REPORT
170493 - 1718 -FINAL REPORT

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

This email has been checked for viruses by AVG.

<http://www.avg.com>



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

Taiga Batch No.:
170493

- FINAL REPORT -

Prepared For: Hamlet of Fort Providence

Address: General Delivery
Fort Providence, NT
X0E 0L0

Attn: Robert Tanche

Facsimile: (867) 699-4624

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Glen Hudy', is written over a horizontal line.

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, August 01, 2017

Print Date: *Tuesday, August 01, 2017*

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Taiga Environmental Laboratory

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

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

Taiga Batch No.:
170493

- CERTIFICATE OF ANALYSIS -

Client Sample ID:

Taiga Sample ID: **001**

Client Project:

Sample Type: Sewage

Received Date: 07-Jul-17

Sampling Date: 07-Jul-17

Sampling Time: 8:40

Location: Fort Providence

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.168	0.005	mg/L	10-Jul-17	SM4500-NH3:G	
Biochemical Oxygen Demand	7	2	mg/L	07-Jul-17	SM5210:B	81
Chemical Oxygen Demand	83	5	mg/L	18-Jul-17	SM5220:D	
Phosphorous, Total	1.59	0.002	mg/L	14-Jul-17	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	180	0.4	mg/L	07-Jul-17	SM2320:B	
Colour, Apparent	237	5	CU	07-Jul-17	SM2120:B	
Colour, True	33	5	TCU	07-Jul-17	SM2120:B	
Conductivity, Specific (@25C)	726	0.4	µS/cm	07-Jul-17	SM2510:B	
pH	9.82		pH units	07-Jul-17	SM4500-H:B	
Solids, Total Suspended	32	3	mg/L	13-Jul-17	SM2540:D	
Turbidity	21.8	0.05	NTU	07-Jul-17	SM2130:B	
<u>Major Ions</u>						
Hardness	159	0.7	mg/L	08-Jul-17	SM4110:B	

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Taiga Batch No.:
170493

- CERTIFICATE OF ANALYSIS -

Client Sample ID:

Taiga Sample ID: 001

Nitrate+Nitrite as Nitrogen	1.59	0.01	mg/L	08-Jul-17	SM4110:B
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Microbiology

Coliforms, Fecal	20	10	CFU/100mL	07-Jul-17	SM9222:D
Coliforms, Total	1120	1.0	MPN/100ml	07-Jul-17	SM9223:B
Escherichia coli	60.9	1.0	MPN/100ml	07-Jul-17	SM9223:B

Organics

Benzene	< 0.002	0.002	mg/L	22-Jul-17	EPA8260B
Ethylbenzene	< 0.002	0.002	mg/L	22-Jul-17	EPA8260B
F2: C10-C16	< 0.2	0.2	mg/L	28-Jul-17	EPA8015B
F3: C16-C34	< 0.2	0.2	mg/L	28-Jul-17	EPA8015B
F4: C34-C50	< 0.2	0.2	mg/L	28-Jul-17	EPA8015B
Hexane Extractable Material	< 2.0	2.0	mg/L	24-Jul-17	EPA1664A
Hydrocarbons, Total Extractable	< 0.2	0.2	mg/L	28-Jul-17	EPA8015B
Hydrocarbons, Total Purgeable	< 0.3	0.3	mg/L	22-Jul-17	EPA8015
Toluene	< 0.002	0.002	mg/L	22-Jul-17	EPA8260B
Xylenes	< 0.002	0.002	mg/L	22-Jul-17	EPA8260B

Trace Metals, Total

Cadmium	< 0.1	0.1	µg/L	18-Jul-17	EPA200.8
Chromium	0.3	0.1	µg/L	18-Jul-17	EPA200.8
Cobalt	0.3	0.1	µg/L	18-Jul-17	EPA200.8
Copper	0.5	0.2	µg/L	18-Jul-17	EPA200.8
Iron	170	5	µg/L	18-Jul-17	EPA200.8
Lead	0.1	0.1	µg/L	18-Jul-17	EPA200.8
Manganese	13.3	0.1	µg/L	18-Jul-17	EPA200.8
Nickel	3.1	0.1	µg/L	18-Jul-17	EPA200.8

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Taiga Batch No.:

170493

- CERTIFICATE OF ANALYSIS -

Client Sample ID:

Taiga Sample ID: **001**

Zinc < 5.0 5 µg/L 18-Jul-17 EPA200.8

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Taiga Batch No.:

170493

- CERTIFICATE OF ANALYSIS -

Client Sample ID:

Taiga Sample ID: **001**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

81 *Results are inconclusive due to insufficient depletion of sample, minimum 2 mg/L required over 5 days.*

*** 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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