YEAR BEING REPORTED: 2024

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. 3BM-SAN2025 issued to the Municipality of Sanikiluaq.

I – III. Tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are the quantities of water used and the estimated discharge of waste. The water consumption volume is considered equal to the sewage discharge volume because there is no meter at the end of the discharge pipe.

| Month Reported | Quantity of Water Obtained from all sources (m ³) | Quantity of Sewage Waste Discharged (m³) | Quantity of Waste Accepted (m³) | | |
|----------------|---|--|---------------------------------------|--|--|
| January | 3,865.83 | Same | 993.69 | | |
| February | 3,470.93 | Same | 993.69 | | |
| March | 3,862.07 | Same | 993.69 | | |
| April | 3,844.52 | Same | 993.69 | | |
| May | 3,871.27 | Same | 993.69 | | |
| June | 3,352.01 | Same | 993.69 | | |
| July | 3,309.67 | Same | 993.69 | | |
| August | 3,410.29 | Same | 993.69 | | |
| September | 3,407.39 | Same | 993.69 | | |
| October | 3,512.09 | Same | 993.69 | | |
| November | 3,479.11 | Same | 993.69 | | |
| December | 3,494.33 | Same | 993.69 | | |
| ANNUAL TOTAL | 40,184.38 | Same | 11,924.28 | | |

IV. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities:

No modifications or major maintenance work carried out in 2024.

V. A list of unauthorized discharges and summary of follow-up action taken:

No spills to report in 2024.

VI. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:

There was no abandonment and restoration work completed during 2024. There is no abandonment and restoration work anticipated for 2025.

VII. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned:

Water

A detailed design is being developed for the WTP upgrade currently at 25%. Construction contract to be tendered December 2025 and on-site construction works anticipated to begin Summer 2027.

Wastewater

Design of an improved wastewater facility consisting of a new sewage lagoon and increase of wetland treatment area is ongoing. Design is currently at 25% and expected to be completed and tendered in Fall/Winter 2025.

Solid Waste

The initial planning study was completed in 2020/21. The cost estimates have indicated that the current funding cannot support the construction of a new state-of-the-art 20-year landfill. The focus of the project will shift to making improvements to the current site. A second planning contract to assess and prioritize the improvements to the current site is expected to be completed in 2025.

VIII. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

No other details on water use or waste disposal requested by the Board by November 1st of 2024.

IX. Updates or revisions to the approved Operation and Maintenance Plans:

Updated Operation and Maintenance Plan for the Solid Waste Disposal Facility, and updated Environmental Emergency Spill Contingency and Environmental Monitoring and QA/QC Plans will be provided within the 2025 Application for Amendment and Renewal of the Water Licence for approval.

The changes to the Plans will ensure that all information is up to date for the infrastructure, personnel, and procedures for handling regulatory requirements.

X. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- No open burning was undertaken in 2024
- No sludge has been removed from the Wastewater Treatment Facility
- No modifications to the Monitoring Program
- Monitoring station SAN-5 was not sampled at due to it being dry
 - See Appendix C for photos

XI. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

A CIRNAC Inspection did not take place during 2024.

An updated Compliance Plan will be submitted with the 2025 Application for Water Licence Amendment and Renewal.

APPENDICES:

Appendix A: Summary and Interpretation of Monitoring Data

Appendix B: Certificate of Analyses

Appendix C: SAN-5 Photos from Sampling

Appendix A

Tabular Summary of Monitoring Data

| Parameter | Maximum Concentration of any Grab Sample for SAN-4 | Units | July 4, 2024 SAN-4 | Aug. 11, 2024 SAN-4 |
|------------------------|--|----------|--------------------------|---------------------------|
| BOD ₅ | 120 | mg/L | <2 | <2 |
| Total Suspended Solids | 180 | mg/L | <3 | <3 |
| | | CFU/ 100 | | |
| Fecal Coliform | $1x10^{6}$ | mL | 8 | 16 |
| | | | | |
| Oil and Grease | No visible sheen | N/A | <5.0 mg/L | <5.0 mg/L |
| рН | Between 6 and 9 | N/A | 8.07 | 7.79 |

Based on the results, compliance with the effluent quality limits at SAN-4 was achieved.

Appendix B

ALS Canada Ltd.



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Issue Date

Work Order : **WP2416744** Page : 1 of 6

Client : Municipality of Sanikiluaq Laboratory : ALS Environmental - Winnipeg

Contact : Sanikiluaq Mike Rowan Account Manager : Craig Riddell

PO Box 157 Address : 1329 Niakwa Road East, Unit 12

Winnipeg, Manitoba Canada R2J 3T4

: 19-Jul-2024 15:55

Telephone : 867 266 8308 Telephone : +1 204 255 9720

Sanikiluaq NU Canada X0A 0W0

: Hamlet of Sanikiluaq - Waste Water Date Samples Received : 05-Jul-2024 12:15

Sampler : ----Site : ----

Quote number : 2024 Analytical Testing

No. of samples received : 2
No. of samples analysed : 2

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

Address

Project

C-O-C number

PO

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories | Position | Laboratory Department |
|-----------------|----------------|----------------------------------|
| Ana Srzic | | Organics, Winnipeg, Manitoba |
| Jade Soliman | | Microbiology, Winnipeg, Manitoba |
| Nik Perkio | Senior Analyst | Inorganics, Waterloo, Ontario |
| Oleksandr Busel | | Inorganics, Winnipeg, Manitoba |
| Oleksandr Busel | | Metals, Winnipeg, Manitoba |
| Rhovee Guevarra | | Inorganics, Winnipeg, Manitoba |

Page : 2 of 6 Work Order : WP2416744

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



No Breaches Found

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

| Unit | Description |
|-----------|--|
| μS/cm | microsiemens per centimetre |
| mg/L | milligrams per litre |
| MPN/100mL | most probable number per hundred millilitres |
| pH units | pH units |

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

 Page
 :
 3 of 6

 Work Order
 :
 WP2416744

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Qualifiers

| Qualifier | Description |
|-----------|--|
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, |
| | colour, turbidity). |
| MBHT | The APHA 30 hour holding time was exceeded for microbiological testing. Samples |
| | processed within 48 hours from time of sampling may be valid in some cases (refer to |
| | Health Canada guidance). |

Page : 4 of 6 Work Order : WP2416744

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Analytical Results Evaluation

| | Client sample ID | | | | | | | | |
|---------------------------------------|--------------------|--------------|----------------------|-----------|-------|-------------------|------|------|--|
| Matrix: Effluent | | | | | | | | | |
| | Sampling date/time | | | | 10:15 | 04-Jul-2024 10:30 | | | |
| | | S | Sub-Matrix | Effluent | t | Effluent | | | |
| Analyte | CAS Number | Method/Lab | Unit | WP2416744 | -001 | WP2416744-002 | | | |
| Physical Tests | | | | | | | | | |
| Alkalinity, bicarbonate (as HCO3) | 71-52-3 | E290/WP | mg/L | 233 | | 202 | | | |
| Alkalinity, carbonate (as CO3) | 3812-32-6 | E290/WP | mg/L | <1.0 | | <1.0 | | | |
| Alkalinity, hydroxide (as OH) | 14280-30-9 | E290/WP | mg/L | <1.0 | | <1.0 | | | |
| Conductivity | | E100/WP | μS/cm | 738 | | 2550 | | | |
| Hardness (as CaCO3), from total Ca/Mg | | EC100A/WP | mg/L | 268 | | 476 | | | |
| рН | | E108/WP | pH units | 8.18 | | 8.07 | | | |
| Solids, total suspended [TSS] | | E160/WP | mg/L | <3.0 | | <3.0 | | | |
| Anions and Nutrients | | | | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298/WP | mg/L | 0.0088 | | 0.0197 | | | |
| Chloride | 16887-00-6 | E235.CI/WP | mg/L | 62.6 | | 649 | | | |
| Nitrate (as N) | 14797-55-8 | E235.NO3/WP | mg/L | 0.407 | | <0.400 DLM | | | |
| Nitrate + Nitrite (as N) | | EC235.N+N/WP | mg/L | 0.407 | | <0.447 | | | |
| Nitrite (as N) | 14797-65-0 | E235.NO2/WP | mg/L | <0.010 | | <0.200 DLM | | | |
| Phosphorus, total | 7723-14-0 | E372/WP | mg/L | <0.020 | | 0.910 | | | |
| Sulfate (as SO4) | 14808-79-8 | E235.SO4/WP | mg/L | 110 | | 109 | | | |
| Organic / Inorganic Carbon | | | | | | | | | |
| Carbon, total organic [TOC] | | E355-L/WP | mg/L | 4.86 | | 9.97 | | | |
| Microbiological Tests | | | | | | | | | |
| Coliforms, thermotolerant [fecal] | | E010.FC/WP | MPN/10 | 22 | MBHT | 8 MBHT | | | |
| Coliforms, total | | E010.QT97/WP | 0mL MPN/100 mL | >2420 | мвнт | 1410 МВНТ | | | |
| Coliforms, Escherichia coli [E. coli] | | E010.QT97/WP | MPN/10 0mL | 62 | MBHT | 13 мвнт | | | |
| Total Metals | | | | | | | | | |
| Aluminum, total | 7429-90-5 | E420/WP | mg/L | 0.0041 | | 0.0082 | | | |
| Antimony, total | 7440-36-0 | E420/WP | mg/L | 0.00093 | 3 | 0.00011 | | | |
| Arsenic, total | 7440-38-2 | E420/WP | mg/L | 0.00020 |) | 0.00144 | | | |
| Barium, total | 7440-39-3 | E420/WP | mg/L | 0.0227 | | 0.0138 | | | |
| | | | | | | | | | |

Page : 5 of 6 Work Order : WP2416744

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Analytical Results Evaluation

| | | Client | sample ID | SAN-2 | SAN-4 | | | |
|-------------------|--------------------|------------|------------|-------------------|-------------------|------|------|--|
| Matrix: Effluent | | | | | | | | |
| | Sampling date/time | | | 04-Jul-2024 10:15 | 04-Jul-2024 10:30 | | | |
| | | 5 | Sub-Matrix | Effluent | Effluent | | | |
| Analyte | CAS Number | Method/Lab | Unit | WP2416744-001 | WP2416744-002 | | | |
| Total Metals | | | | | | | | |
| Beryllium, total | 7440-41-7 | E420/WP | mg/L | <0.000020 | <0.000020 | | | |
| Bismuth, total | 7440-69-9 | E420/WP | mg/L | Not Detected | <0.000050 | | | |
| Boron, total | 7440-42-8 | E420/WP | mg/L | 0.135 | 0.216 | | | |
| Cadmium, total | 7440-43-9 | E420/WP | mg/L | 0.0000112 | 0.0000179 | | | |
| Calcium, total | 7440-70-2 | E420/WP | mg/L | 68.3 | 96.1 | | | |
| Cesium, total | 7440-46-2 | E420/WP | mg/L | 0.000020 | <0.000010 | | | |
| Chromium, total | 7440-47-3 | E420/WP | mg/L | <0.00050 | <0.00050 | | | |
| Cobalt, total | 7440-48-4 | E420/WP | mg/L | 0.00014 | 0.00018 | | | |
| Copper, total | 7440-50-8 | E420/WP | mg/L | 0.00437 | 0.00181 | | | |
| Iron, total | 7439-89-6 | E420/WP | mg/L | <0.010 | 0.059 | | | |
| Lead, total | 7439-92-1 | E420/WP | mg/L | <0.000050 | <0.000050 | | | |
| Lithium, total | 7439-93-2 | E420/WP | mg/L | 0.0084 | 0.0125 | | | |
| Magnesium, total | 7439-95-4 | E420/WP | mg/L | 23.6 | 57.2 | | | |
| Manganese, total | 7439-96-5 | E420/WP | mg/L | 0.00028 | 0.0286 | | | |
| Mercury, total | 7439-97-6 | E508/WP | mg/L | <0.0000050 | <0.0000050 | | | |
| Molybdenum, total | 7439-98-7 | E420/WP | mg/L | 0.000579 | 0.000671 | | | |
| Nickel, total | 7440-02-0 | E420/WP | mg/L | 0.00062 | 0.00102 | | | |
| Phosphorus, total | 7723-14-0 | E420/WP | mg/L | <0.050 | 1.05 | | | |
| Potassium, total | 7440-09-7 | E420/WP | mg/L | 5.84 | 10.4 | | | |
| Rubidium, total | 7440-17-7 | E420/WP | mg/L | 0.00230 | 0.00256 | | | |
| Selenium, total | 7782-49-2 | E420/WP | mg/L | 0.000173 | 0.000116 | | | |
| Silicon, total | 7440-21-3 | E420/WP | mg/L | 1.58 | 2.43 | | | |
| Silver, total | 7440-22-4 | E420/WP | mg/L | <0.000010 | <0.000010 | | | |
| Sodium, total | 7440-23-5 | E420/WP | mg/L | 50.5 | 353 | | | |
| Strontium, total | 7440-24-6 | E420/WP | mg/L | 0.221 | 0.609 | | | |
| Sulfur, total | 7704-34-9 | E420/WP | mg/L | 39.4 | 55.0 | | | |
| Tellurium, total | 13494-80-9 | E420/WP | mg/L | <0.00020 | <0.00020 | | | |
| Thallium, total | 7440-28-0 | E420/WP | mg/L | <0.000010 | 0.000014 | | | |
| Thorium, total | 7440-29-1 | E420/WP | mg/L | Not Detected | Not Detected | | | |

Page : 6 of 6 Work Order : WP2416744

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Analytical Results Evaluation

| | | Client | sample ID | SAN-2 | SAN-4 | | | |
|--|-----------|------------|-----------|-------------------|-------------------|------|------|--|
| Matrix: Effluent | | | | | | | | |
| | | Sampling | date/time | 04-Jul-2024 10:15 | 04-Jul-2024 10:30 | | | |
| | | S | ub-Matrix | Effluent | Effluent | | | |
| Analyte CA | AS Number | Method/Lab | Unit | WP2416744-001 | WP2416744-002 | | | |
| Total Metals | | | | | | | | |
| Tin, total | 7440-31-5 | E420/WP | mg/L | <0.00010 | 0.00010 | | | |
| Titanium, total | 7440-32-6 | E420/WP | mg/L | <0.00030 | 0.00036 | | | |
| Tungsten, total | 7440-33-7 | E420/WP | mg/L | Not Detected | Not Detected | | | |
| Uranium, total | 7440-61-1 | E420/WP | mg/L | 0.00308 | 0.00277 | | | |
| Vanadium, total | 7440-62-2 | E420/WP | mg/L | <0.00050 | <0.00050 | | | |
| Zinc, total | 7440-66-6 | E420/WP | mg/L | <0.0030 | <0.0030 | | | |
| Zirconium, total | 7440-67-7 | E420/WP | mg/L | <0.00020 | <0.00020 | | | |
| Aggregate Organics | | | | | | | | |
| Biochemical oxygen demand [BOD] | | E550/WP | mg/L | <2.0 | <2.0 | | | |
| Carbonaceous biochemical oxygen demand | | E555/WP | mg/L | <2.0 | <2.0 | | | |
| [CBOD] Oil & grease (gravimetric) | | E567/WP | mg/L | 5.2 | <5.0 | | | |
| Phenols, total (4AAP) | | E562/WT | mg/L | 0.0027 | 0.0028 | | | |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Key:

Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here

(lab use only)

Page

COC Number: 15 -

of

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ALS) Enuironmental Canada Toll Free: 1 800 668 9878

| | www.alsglobal.com | | | | | | | ** | | • . | | | | : | | | | | | | | |
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| ALS Lab Wo | rk Order # (lab use onl | y) | | | ALS Contact: | | Sampler: N | ilm.A. | | ٠ | | etais | ercury | ·so | Grease | (2 | 1 (x3) | ହ | 1 | | . | : |
| ALS Sample # (lab use only) | | ple Identification | | | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | вор | Routine | Bacteria | Total Metals | Total Mercury | Nutrients | Oil and | PAH (x2) | BTEX-F1 | F2-F4 (x2) | | | | |
| | SAN-2 | | | | | 84-07-24 | WIS AM | Effluent | R | R | R | R | R | R | R | R | R | R | | | | |
| | SAN-4 | | | | | 04-07-21 | | Effluent | R | R | R | R | R | R | R | | | | | | | |
| | SAN-5 | o run o | FL . | | | 64-67-24 | 10:35A1- | Effluent | R | R | R | R | R | R | R | R | R | R | | | | · |
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| re samples for | human drinking water use | 9? | NUNAVUT-WW-GRP1-WP, BTEX, F1-F4, PAH | | | | | | <u> </u> | INII | IAL CC | OLER | TEMPER | RATURI | s °C | | | FINA | L COOL | ER TE | APERAT | URES °C |
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| Released by: | | Date: | - | Time: | Received by: | M | Date: JUL D | 5 2024 | Time | | Rec | eived I | by: | | | | Date | ≘: | | |] | ime: |
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| Express TAT? | | | -1 -6 | | yes: | | | | | |
| | | s | ame da | y 1 day | 2 day | 3 days | 4 | 1 day | | |
| Short hold time? | no | | | | yes: | | | | | |
| | 110 |] . | <24 hrs | 1 day | 2 days |) 3 days | 1 | days | | |
| Cooling method | none | Lo | pose ic | | packs | | | | | |
| Matrix | Water | S | oil/solic | | Biota | Cooling | | | | |
| Total number of bottles/frac | | 10 | /- |) | Diota | Food/micr | 0 0 | ther | | |
| Green/white | UVC | | $/ \alpha$ | 0,000000 | 1-1 | | | | | |
| Purple/white | $\frac{4}{\hat{V}}$ | X 10 | <u>, </u> | Orange/ Dark blu | | | · | | | |
| Red/white | 42× | 101 |) | Black/wi | | | | | | |
| Dark green/white | | 700 | | Brown/w | | | | | | |
| Grey/black | | | <u> </u> | Pink/whi | | | | | | |
| Yellow/black | 2 | × 4 | 10,4 | | Beige/white | | | | | |
| Light blue/white | 2 X | 256 | v) · | Other (sp | | | | | | |
| Receipt Window | | | - | Login | D-141 | · · · · · · · · · · · · · · · · · · · | | T | | |
| # of fractions, matrix and subm | | √/X | N/A | A.U | Bottles | | √/× | N/A | | |
| Client, office, contact, quote, pr | | | | | ved bottles h | | | | | |
| Receipt time/date, PO, project, | | | | | internal CO | | ļ | | | |
| Temp, cooling method, samp | | | | | ent Contac | | 112 | 21/0 | | |
| Sample Info | | //X | N/A | Report/in | | √/× | N/A | | | |
| Sample date/time | | | | | rt types/forn | <u></u> | | | | |
| Sample ID/description | | | | | t-committi | | √/× | N/A | | |
| Sales items | | | | Runs built a | nd field dat | a entered | | | | |
| Guidelines/thresholds | | | | | formation e | | | | | |
| Additional sample/WO information | tion | | | | on Require | | Yes | No | | |
| Due Dates | | //× | N/A | Update d | efault recei | ot data | | | | |
| COC/GEL/client due dates mat | ch | | | | lefault repor | | | | | |
| Express TAT surcharges | | | | Add sales/l | oilling items | to quote | | ***** | | |
| Clock running for all samples | | | | SIF initiated (e | | | | · | | |
| | | | - | | | | | | | |
| omments: | | | | | | | | | | |

ALS Canada Ltd.



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order : **WP2418870** Page : 1 of 6

Client : Municipality of Sanikiluaq Laboratory : ALS Environmental - Winnipeg

Contact : Sanikiluaq Mike Rowan : Craig Riddell

: PO Box 157 Address : 1329 Niakwa Road East, Unit 12

Winnipeg, Manitoba Canada R2J 3T4

Telephone : 867 266 8308 Telephone : +1 204 255 9720

Sanikiluaq NU Canada X0A 0W0

Project: Hamlet of Sanikiluaq - Waste WaterDate Samples Received: 02-Aug-2024 13:53PO: ----Date Analysis Commenced: 02-Aug-2024C-O-C number: ----Issue Date: 16-Aug-2024 10:19

Sampler : ----Site : ----

Quote number : 2024 Analytical Testing

No. of samples received : 2
No. of samples analysed : 2

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

Address

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories | Position | Laboratory Department |
|---------------------|--------------------|----------------------------------|
| Brennan Dugas | Analyst | Microbiology, Winnipeg, Manitoba |
| Brooke Miller | Laboratory Analyst | Inorganics, Edmonton, Alberta |
| Lee McTavish | | Inorganics, Winnipeg, Manitoba |
| Lee McTavish | | Metals, Winnipeg, Manitoba |
| Michelle Michalchuk | Analyst | Organics, Winnipeg, Manitoba |

Page : 2 of 6 Work Order : WP2418870

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



No Breaches Found

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

| Unit | Description |
|-----------|--|
| μS/cm | microsiemens per centimetre |
| mg/L | milligrams per litre |
| MPN/100mL | most probable number per hundred millilitres |
| pH units | pH units |

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

 Page
 :
 3 of 6

 Work Order
 :
 WP2418870

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Qualifiers

| Qualifier | Description |
|-----------|---|
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| HTA | Analytical holding time was exceeded. |
| МВНТ | The APHA 30 hour holding time was exceeded for microbiological testing. Samples processed within 48 hours from time of sampling may be valid in some cases (refer to Health Canada guidance). |

Page : 4 of 6 Work Order : WP2418870

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Analytical Results Evaluation

| Matrix: Effluent | | - " | | | | | | 1 |
|---------------------------------------|-----------|--------------|---------------------|-----------------------|----------------------|------|------|---|
| | | Sampling | date/time | 01-Aug-2024 10:00 | 01-Aug-2024 10:07 | | | |
| | | S | Sub-Matrix | Effluent | Effluent | | | |
| Analyte CA | AS Number | Method/Lab | Unit | WP2418870-001 | WP2418870-002 | | | |
| Physical Tests | | | | | | | | |
| Alkalinity, bicarbonate (as HCO3) | 71-52-3 | E290/WP | mg/L | 308 | 246 | | | |
| Alkalinity, carbonate (as CO3) | 3812-32-6 | E290/WP | mg/L | <1.0 | <1.0 | | | |
| Alkalinity, hydroxide (as OH) | 4280-30-9 | E290/WP | mg/L | <1.0 | <1.0 | | | |
| Conductivity | | E100/WP | μS/cm | 959 | 4840 | | | |
| Hardness (as CaCO3), from total Ca/Mg | | EC100A/WP | mg/L | 333 | 836 | | | |
| рН | | E108/WP | pH units | 7.64 | 7.79 | | | |
| Solids, total suspended [TSS] | | E160/WP | mg/L | 25.3 HTA | <3.0 HTA | | | |
| Anions and Nutrients | | | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298/WP | mg/L | 0.0201 | 0.0310 | | | |
| Chloride 1 | 6887-00-6 | E235.CI/WP | mg/L | 85.9 | 1340 | | | |
| Nitrate (as N) | 4797-55-8 | E235.NO3/WP | mg/L | <0.040 DLM | <0.400 DLM | | | |
| Nitrate + Nitrite (as N) | | EC235.N+N/WP | mg/L | <0.0447 | <0.447 | | | |
| Nitrite (as N) | 4797-65-0 | E235.NO2/WP | mg/L | <0.020 DLM | <0.200 DLM | | | |
| Phosphorus, total | 7723-14-0 | E372/WP | mg/L | <0.020 | 0.473 | | | |
| Sulfate (as SO4) | 4808-79-8 | E235.SO4/WP | mg/L | 135 | 251 | | | |
| Organic / Inorganic Carbon | | | | | | | | |
| Carbon, total organic [TOC] | | E355-L/WP | mg/L | 6.03 | 10.4 | | | |
| Microbiological Tests | | | | | | | | |
| Coliforms, thermotolerant [fecal] | | E010.FC/WP | MPN/10 | 73 мвнт | 16 MBHT | | | |
| Coliforms, total | | E010.QT97/WP | 0mL MPN/100 | >2420 ^{MBHT} | >2420 MBHT | | | |
| Coliforms, Escherichia coli [E. coli] | | E010.QT97/WP | mL MPN/10 0mL | 50 мвнт | 99 мвнт | | | |
| Total Metals | | | | | | | | |
| Aluminum, total | 7429-90-5 | E420/WP | mg/L | 0.0067 | 0.0177 | | | |
| | 7440-36-0 | | mg/L | 0.00086 | 0.00015 | | | |
| Arsenic, total | 7440-38-2 | E420/WP | mg/L | 0.00028 | 0.00154 | | | |

 Page
 :
 5 of 6

 Work Order
 :
 WP2418870

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Analytical Results Evaluation

| | | Client | sample ID | SAN-2 | SAN-4 | | | |
|-------------------|--------------|------------|------------|----------------------|----------------------|------|------|--|
| Matrix: Effluent | | | | | | | | |
| | | Sampling | date/time | 01-Aug-2024 10:00 | 01-Aug-2024 10:07 | | | |
| | | S | Sub-Matrix | Effluent | Effluent | | | |
| Analyte | CAS Number | Method/Lab | Unit | WP2418870-001 | WP2418870-002 | | | |
| Total Metals | | | | | | | | |
| Barium, total | 7440-39-3 E | E420/WP | mg/L | 0.0296 | 0.0284 | | | |
| Beryllium, total | 7440-41-7 E | E420/WP | mg/L | <0.000020 | <0.000020 | | | |
| Bismuth, total | 7440-69-9 E | E420/WP | mg/L | <0.000050 | <0.000050 | | | |
| Boron, total | 7440-42-8 E | E420/WP | mg/L | 0.202 | 0.485 | | | |
| Cadmium, total | 7440-43-9 E | E420/WP | mg/L | 0.0000172 | 0.0000540 | | | |
| Calcium, total | 7440-70-2 E | E420/WP | mg/L | 83.8 | 160 | | | |
| Cesium, total | 7440-46-2 E | E420/WP | mg/L | 0.000034 | 0.000015 | | | |
| Chromium, total | 7440-47-3 E | E420/WP | mg/L | <0.00050 | <0.00050 | | | |
| Cobalt, total | 7440-48-4 E | E420/WP | mg/L | 0.00023 | 0.00028 | | | |
| Copper, total | 7440-50-8 E | E420/WP | mg/L | 0.00328 | 0.00243 | | | |
| Iron, total | 7439-89-6 E | E420/WP | mg/L | 0.054 | 0.142 | | | |
| Lead, total | 7439-92-1 E | E420/WP | mg/L | 0.000051 | 0.000067 | | | |
| Lithium, total | 7439-93-2 E | E420/WP | mg/L | 0.0136 | 0.0288 | | | |
| Magnesium, total | 7439-95-4 E | E420/WP | mg/L | 30.0 | 106 | | | |
| Manganese, total | 7439-96-5 E | E420/WP | mg/L | 0.0180 | 0.128 | | | |
| Mercury, total | 7439-97-6 E | E508/WP | mg/L | 0.0000074 | <0.0000050 | | | |
| Molybdenum, total | 7439-98-7 E | E420/WP | mg/L | 0.000971 | 0.00166 | | | |
| Nickel, total | 7440-02-0 E | E420/WP | mg/L | 0.00072 | 0.00160 | | | |
| Phosphorus, total | 7723-14-0 E | E420/WP | mg/L | <0.050 | 0.566 | | | |
| Potassium, total | 7440-09-7 E | E420/WP | mg/L | 6.30 | 23.8 | | | |
| Rubidium, total | 7440-17-7 E | E420/WP | mg/L | 0.00280 | 0.00343 | | | |
| Selenium, total | 7782-49-2 E | E420/WP | mg/L | 0.000212 | 0.000250 | | | |
| Silicon, total | 7440-21-3 E | E420/WP | mg/L | 2.23 | 3.92 | | | |
| Silver, total | 7440-22-4 E | E420/WP | mg/L | <0.000010 | <0.000010 | | | |
| Sodium, total | 7440-23-5 E | E420/WP | mg/L | 78.1 | 705 | | | |
| Strontium, total | 7440-24-6 E | E420/WP | mg/L | 0.279 | 1.43 | | | |
| Sulfur, total | 7704-34-9 E | E420/WP | mg/L | 52.5 | 107 | | | |
| Tellurium, total | 13494-80-9 E | E420/WP | mg/L | <0.00020 | <0.00020 | | | |
| Thallium, total | 7440-28-0 E | | mg/L | <0.000010 | 0.000038 | | | |
| | | | | | | | | |

Page : 6 of 6 Work Order : WP2418870

Client : Municipality of Sanikiluaq
Project : Hamlet of Sanikiluaq - Waste Water



Analytical Results Evaluation

| Matrix: Effluent | | Client | sample ID | SAN-2 | SAN-4 | | | |
|---------------------------------------|------------|------------|------------|----------------------|----------------------|------|------|--|
| | | Sampling | date/time | 01-Aug-2024 10:00 | 01-Aug-2024 10:07 | | | |
| | | S | Sub-Matrix | Effluent | Effluent | | | |
| Analyte | CAS Number | Method/Lab | Unit | WP2418870-001 | WP2418870-002 | | | |
| Total Metals | | | | | | | | |
| Thorium, total | 7440-29-1 | E420/WP | mg/L | Not Detected | Not Detected | | | |
| Tin, total | 7440-31-5 | E420/WP | mg/L | <0.00010 | <0.00010 | | | |
| Titanium, total | 7440-32-6 | E420/WP | mg/L | 0.00034 | 0.00064 | | | |
| Tungsten, total | 7440-33-7 | E420/WP | mg/L | Not Detected | Not Detected | | | |
| Uranium, total | 7440-61-1 | E420/WP | mg/L | 0.00562 | 0.00421 | | | |
| Vanadium, total | 7440-62-2 | E420/WP | mg/L | <0.00050 | <0.00050 | | | |
| Zinc, total | 7440-66-6 | E420/WP | mg/L | <0.0030 | <0.0030 | | | |
| Zirconium, total | 7440-67-7 | E420/WP | mg/L | 0.00022 | 0.00025 | | | |
| Aggregate Organics | | | | | | | | |
| Biochemical oxygen demand [BOD] | | E550/WP | mg/L | 2.2 | <2.0 | | | |
| Carbonaceous biochemical oxygen deman | d | E555/WP | mg/L | <2.0 | <2.0 | | | |
| [CBOD] Oil & grease (gravimetric) | | E567/WP | mg/L | <5.0 | <5.0 | | | |
| Phenols, total (4AAP) | | E562/EO | mg/L | 0.0029 | <0.0010 | | | |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Key:

Chain of Custody (COC) / Analytical

COC Number: 15 -

FINAL SHIPMENT RECEPTION (lab use only)

Date:

Time:

OCTOBER 2015 FRONT

Received by:

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| City/Province: | Sanikiluag, NU | | Email 2 | rkum@gov.nu.ca | | | | ts that ca | ., ., | Wild Set | | 1 | | | | | KOK | | | |
| Postal Code: | XOA OWO | | Email 3 | mlusty@gov.nu.c | | | | | | | | <u> </u> | Anal | | | | P-A | XXX | | , |
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| | Project Information | | · | I and Gas Require | d Fields (client) | use) | 1 | | | | | | | | ' | | | i l | | ners |
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| Job#: | Hamlet of Sanikiluag - Waste Water | | Major/Minor Code: | | Routing Code: | | 1 | | | | | | | | ' | 1 | 1 | , 1 | | స్టి |
| PO / AFE: | | | Requisitioner: | | | | 1 | | | | 1 | | | | 1 | | | , 1 | | jo O |
| LSD: | * | | Location: | • | | | 1 | | | | | | İ | | ' | | | i I | | Number of Containers |
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| ALS Lab Wo | ork Order# (lab use only) | | ALS Contact: | | Sampler: N | 30hos | | | | Total Metals | Total Mercury | S | Oil and Grease | S. | 1 (x3) | ري ري | | | | |
| ALS Sample # | Sample Identific | ation and/or Coordinates | | Date | Time | Sample Type | \Box | Routine | Bacteria | a ⊠ | _ 26 | Nutrients | and | PAH (x2) | BTEX-F1 (| F2-F4 (x2) | | , 1 | | |
| (lab use only) | (This description | will appear on the report) | | (dd-mmm-yy) | (hh:mm) | Cample Type | 80 | S _o | g | ğ | į | Ž | ₫ | A | E | 12 | | | | |
| | SAN-2 | | | 01-03-24 | 10,00 AM | Effluent | R | R | R | R | R | R | R | R | R | R | | | | |
| | SAN-4 | | · | 01-08-26 | 10:07 AM | Effluent | R | R | R | R | R | R | R | | | | | | | |
| | SAN-5 VO CVA | OEF | | | 10:15 AM | Effluent | R | R | R | R | R | R | R | R | R | R | | | | |
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| Drinking | g Water (DW) Samples¹ (client use) | Special Instructions / S | | add on report by clic ctronic COC only) | cking on the drop- | down list below | Froz | on | | SAIVII | PLE C | OND | | | rvatio | | Yes | ise oili | No | |
| Are samples tal | en from a Regulated DW System? | | fere | | | | - | en acks | | _ | Cubes | П | | | | | | = | No | |
| • | YES NO | | | | | $\overline{}$ | | ing Init | | \Box | -4000 | Ц | Cus | .ouy c | ,uu, III | | , 43 | _ | 110 | |
| Are samples for | human drinking water use? | NUNAVUT-WW-GRP1 | -WP. BTEX. F1- | F4. PAH | (| 20 | - | | | <u> </u> | EMPER | ATURE | s∘c | | T- | FINA | f COO | LER TE | MPERAT | URES ℃ |
| | YES NO | | , | , | \mathbb{H} | ~つ | | | | 1 | | | | | | | | | | |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Released by:

SHIPMENT RELEASE (client use)

Date:

INITIAL SHIPMENT RECEPTION (lab use only)

Time:

Received by:

| | | Sam | ple Intake | | | |
|-----------------------------------|---------|--------------------|-----------------|-------------|------------------|--------|
| Client: | let of | San | ikiloag | COC recei | pt info complete | |
| Express TAT? | (no | same day | 1 day | Yes: | 3 days | 4 day |
| Short hold time? | - | <24 hrs | 1 day | Yes: 2 days | 3 days | 4 daγs |
| Matrix | (Water | Soil/solid | Air | Biota | Food/micro | Other |
| Total number of bottles/fractions | : \ | 48 d | \circ | | | |
| Green/white | 10/50 | \mathcal{O} | Orange/black | | | |
| Purple/white | 41/19 | 5 | Dark blue/white | | | |
| Red/white | 7213 | Y- | Black/white | | | |
| Dark green/white | | | Brown/white | | | |
| Grey/white | | | Pink/white | | | |
| Yellow/black | 1427 | 7 | Beige/white | | | - 11. |
| Light blue/white | 2,26 | $\widehat{\Omega}$ | Other (specify) | | Deyon | Lyelle |
| Comments: | | ~ | | | | tial |
| 10.3°, 90 | e oad | CS, C | orslow | inite | ated | |

| Sample Login Receipt Window | | | | | | | | | |
|--|-------------|-----|---------------------------------------|----------|----------|--|--|--|--|
| Receipt Window | √/ × | N/A | | <u> </u> | N/A | | | | |
| of fractions, matrix and submatrix | | | All received bottles have IDs | | <u> </u> | | | | |
| lient, office, contact, quote, project | | | Type, volume, and locations | | | | | | |
| Receipt time/date, PO, project, site | • | | Labels and internal COCs printed | | | | | | |
| Temp, cooling method, sampler | | | Client Contacts | √/X | N/A | | | | |
| Sample Info | √/× | N/A | Report/invoice/EDD recipients | | | | | | |
| Sample date/time | <u> </u> | | Report types/formats | | | | | | |
| Sample ID/description | | | Post-committing | √/X | N/A | | | | |
| Sales items | | | Runs built and field data entered | | | | | | |
| Guldelines/thresholds | | | Billing information entered | | | | | | |
| Additional sample/WO Information | | | Action Required? | Yes | No | | | | |
| Due Dates | √/× | N/A | Update default receipt data | | | | | | |
| OC/GEL/cilent due dates match | | | Update default report data | | | | | | |
| Express TAT surcharges | | | Add sales/billing items to quote | | | | | | |
| Clock running for all samples | | | SIF initiated (elaborate in comments) | | | | | | |
| nments: | | | | | | | | | |

Appendix C

SAN-5 dry in June:



SAN-5 dry in August:

