

**ANNUAL REPORT  
FOR THE MUNICIPALITY OF NAUJAAT**

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**YEAR BEING REPORTED: 2024**

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. **3BM-NAU2333** issued to the **Municipality of Naujaat**.

Below are tabular summaries of all data generated under the “Monitoring Program”.

- Monthly and annual quantities of freshwater obtained by daily logs for all freshwater sources and estimated sewage waste discharged.

**Table 1: Summary of all water obtained, estimated sewage water discharge, and estimated waste volumes disposed in cubic metres**

<b>Month Reported</b>	<b>Quantity of Water Obtained from all sources (m<sup>3</sup>)</b>	<b>Quantity of Sewage Waste Discharged (m<sup>3</sup>)</b>	<b>Hazardous Waste (m<sup>3</sup>)</b>	<b>Bulky metals and woods (m<sup>3</sup>)</b>	<b>Non-hazardous Municipal Waste (m<sup>3</sup>)</b>
<b>January</b>	3,417.130	Same	1.34	432.66	794.53
<b>February</b>	3,458.342	Same	1.34	432.66	794.53
<b>March</b>	2,742.079	Same	1.34	432.66	794.53
<b>April</b>	3,292.649	Same	1.34	432.66	794.53
<b>May</b>	3,487.192	Same	1.34	432.66	794.53
<b>June</b>	3,571.893	Same	1.34	432.66	794.53
<b>July</b>	2,669.579	Same	1.34	432.66	794.53
<b>August</b>	2,899.551	Same	1.34	432.66	794.53
<b>September</b>	3,418.226	Same	1.34	432.66	794.53
<b>October</b>	4,139.189	Same	1.34	432.66	794.53
<b>November</b>	3,975.742	Same	1.34	432.66	794.53
<b>December</b>	3,991.167	Same	1.34	432.66	794.53
<b>ANNUAL TOTAL</b>	41,062.74	Same	16.13	5,191.87	9,534.34

**Note:** No meter exists to measure the sewage discharge volumes, therefore Sewage discharge volumes are considered equal to the water consumption volumes.

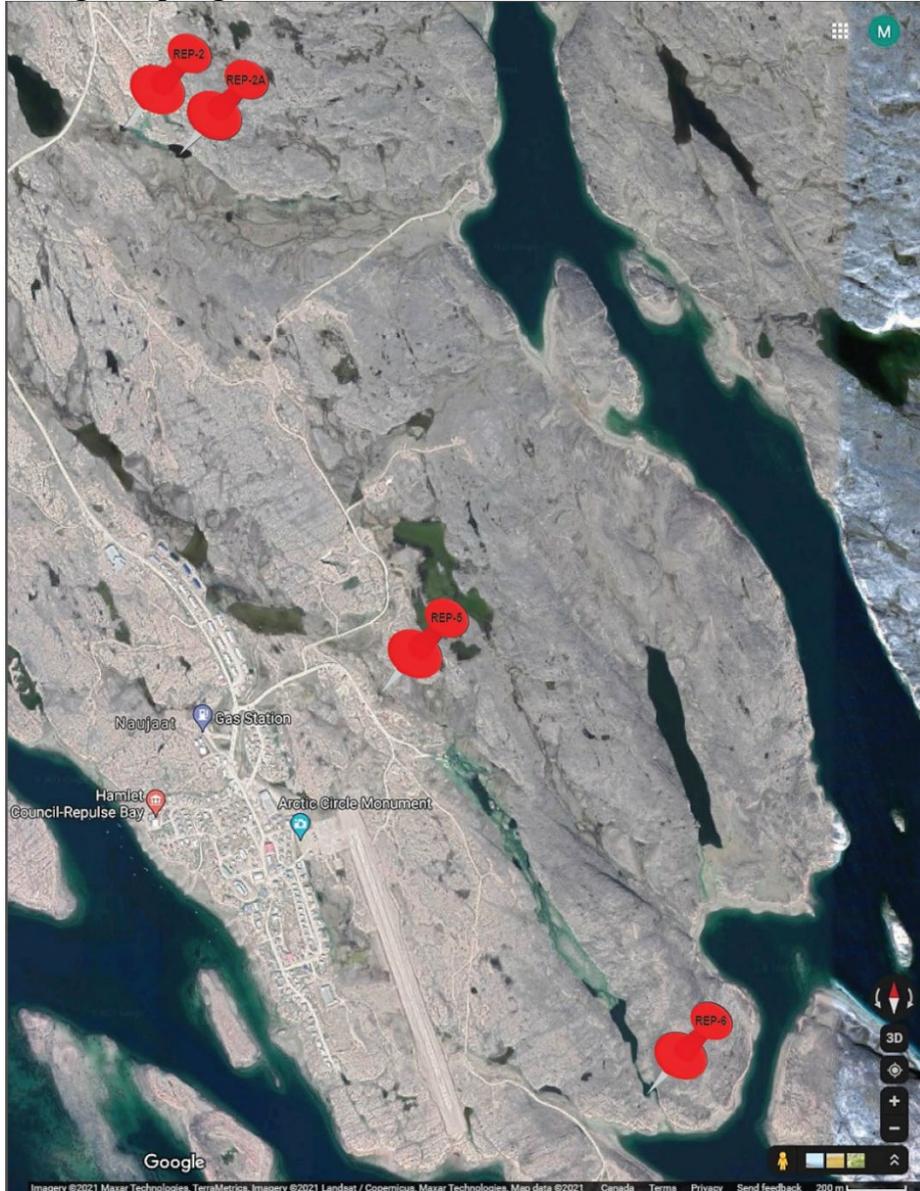
## ANNUAL REPORT FOR THE MUNICIPALITY OF NAUJAAT

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- 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:
  - None
  
- A list of unauthorized discharges and summary of follow-up action taken:
  - List of spills reported to the NT-NU Spill Report Line as listed on the Hazardous Materials Spills Database for Naujaat in 2024 available in Appendix D.
  - None of the spills are associated with this water licence.
  
- A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:
  - None
  
- 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:
  - Design of the new Sewage Disposal Facility is at the 99% drawing stage. The critical step for the project is with Culture & Heritage (C&H). Archaeological survey to be conducted in summer of 2025 to mitigate 4 sites. Report expected by September 2025 leading to C&H approval by end 2025. Targeting sealift 2026 for arrival of material. Fall 2028 completion date. Modification request of the water licence will be submitted to the Board by fall of 2025.
  
- Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and
  - None
  
- updates or revisions to the approved Operation and Maintenance Plans:
  - None

**ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

**Water Licensing Sampling Points:**



- REP-2: Runoff from Solid Waste Disposal Facility culvert
- REP-2a: Runoff from the Solid Waste Disposal Facility boulder seepage
- REP-5: Effluent discharged from the Contaminated Solid Storage Facility
- REP-6: Discharge from Vegetated Filter Strip Wetlands

**FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

- There was no CIRNAC Inspection in 2024.

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**Appendix A: REP-6 Effluent Quality Limits**

**Appendix B: Certificate of Analysis**

**Appendix C: Field Logs for Sampling**

**Appendix D: Hazardous Materials Spills Database for Naujaat in 2024**

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# Appendix A

## 3BM-NAU2333 Naujaat Monitoring Program Results 2024 REP-6 Effluent Quality limits

Parameter	Maximum Concentration of any grab sample	REP- 6
		15-Jul-25
CBOD <sub>5</sub>	100 mg/L	5.5 mg/L
Total Suspended Solids	120 mg/L	38.8 mg/L
Fecal Coliforms	1 x 10 <sup>6</sup> CFU/100mL	-
Oil & Grease	5 mg/L and no visible sheen	<5.0 mg/L
pH	between 6 and 9	9.12

The effluent quality limit was slightly exceeded for pH; however, the other parameters are in compliance. Limited treatment is available with the current sewage treatment facility, which will be mitigated once the Fecal coliforms were not tested as the laboratory did not send the correct sampling bottles for the test. This will be addressed with the laboratory during the bottle order prior to the 2025 monitoring program for sampling.

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# Appendix B



**CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)**

<b>Work Order</b>	: <b>WP2417452</b>	<b>Page</b>	: 1 of 7
<b>Client</b>	: <b>Government of Nunavut</b>	<b>Laboratory</b>	: ALS Environmental - Winnipeg
<b>Contact</b>	: Jimmy Tegumiar	<b>Account Manager</b>	: Craig Riddell
<b>Address</b>	: Repulse Bay - Naujaat GN-CGS Gen Del Naujaat / Repulse Bay NU Canada X0C 0H0	<b>Address</b>	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
<b>Telephone</b>	: ----	<b>Telephone</b>	: +1 204 255 9720
<b>Project</b>	: ----	<b>Date Samples Received</b>	: 16-Jul-2024 11:07
<b>PO</b>	: ----	<b>Date Analysis Commenced</b>	: 16-Jul-2024
<b>C-O-C number</b>	: ----	<b>Issue Date</b>	: 30-Jul-2024 12:29
<b>Sampler</b>	: ----		
<b>Site</b>	: ----		
<b>Quote number</b>	: 2024 Analytical Testing		
<b>No. of samples received</b>	: 4		
<b>No. of samples analysed</b>	: 4		

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**

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Abiodun George	Lab Assistant	Organics, Winnipeg, Manitoba
Brennan Dugas	Analyst	Microbiology, Winnipeg, Manitoba
Gerry Vera	Analyst	Organics, Winnipeg, Manitoba
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Kelly Fischer	Technical Specialist	Inorganics, Waterloo, Ontario
Lee McTavish		Inorganics, Winnipeg, Manitoba
Lee McTavish		Metals, Winnipeg, Manitoba
Livia Ciolan	Analyst	Organics, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba



## 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).

<i>Unit</i>	<i>Description</i>
µg/L	micrograms per litre
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.

### Qualifiers

<i>Qualifier</i>	<i>Description</i>
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).



## Analytical Results Evaluation

				Client sample ID	REP-2	REP-2a	REP-5	REP-6	----	----	----
Matrix: Wastewater				Sampling date/time	15-Jul-2024 10:24	15-Jul-2024 10:35	15-Jul-2024 11:05	15-Jul-2024 11:30	----	----	----
				Sub-Matrix	Wastewater	Wastewater	Wastewater	Wastewater	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WP2417452-001	WP2417452-002	WP2417452-003	WP2417452-004	-----	-----	-----	
<b>Physical Tests</b>											
Alkalinity, bicarbonate (as CaCO3)	----	E290/WP	mg/L	164	115	254	61.5	----	----	----	
Alkalinity, carbonate (as CaCO3)	----	E290/WP	mg/L	<1.0	<1.0	<1.0	33.6	----	----	----	
Alkalinity, hydroxide (as CaCO3)	----	E290/WP	mg/L	<1.0	<1.0	<1.0	<1.0	----	----	----	
Alkalinity, phenolphthalein (as CaCO3)	----	E290/WP	mg/L	<1.0	<1.0	<1.0	16.8	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/WP	mg/L	164	115	254	95.1	----	----	----	
Conductivity	----	E100/WP	µS/cm	355	267	529	246	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	mg/L	133	98.9	223	92.2	----	----	----	
pH	----	E108/WP	pH units	8.21	8.10	8.27	9.27	----	----	----	
Solids, total suspended [TSS]	----	E160/WP	mg/L	<3.0	40.6	11.8	38.8	----	----	----	
<b>Anions and Nutrients</b>											
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L	0.231	0.0432	0.0283	2.21	----	----	----	
Chloride	16887-00-6	E235.Cl/WP	mg/L	14.2	10.3	8.55	13.7	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3/WP	mg/L	0.213	0.046	<0.020	0.631	----	----	----	
Nitrate + Nitrite (as N)	----	EC235.N+N/WP	mg/L	0.224	0.0460	<0.0224	0.719	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2/WP	mg/L	0.011	<0.010	<0.010	0.088	----	----	----	
Phosphorus, total	7723-14-0	E372/WP	mg/L	0.059	0.137	0.031	1.25	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	mg/L	8.60	8.22	26.2	9.12	----	----	----	
<b>Organic / Inorganic Carbon</b>											
Carbon, total organic [TOC]	----	E355-L/WP	mg/L	11.4	10.8	11.5	32.8	----	----	----	
<b>Microbiological Tests</b>											
Coliforms, thermotolerant [fecal]	----	E010.FC/WP	MPN/10 0mL	<1	<1	<1	<1	----	----	----	
<b>Total Metals</b>											
Aluminum, total	7429-90-5	E420/WP	mg/L	0.0264	0.295	0.0960	0.0233	----	----	----	
Antimony, total	7440-36-0	E420/WP	mg/L	0.00067	0.00048	0.00421	0.00021	----	----	----	
Arsenic, total	7440-38-2	E420/WP	mg/L	0.00043	0.00040	0.00056	0.00023	----	----	----	
Barium, total	7440-39-3	E420/WP	mg/L	0.0164	0.0116	0.0140	0.00609	----	----	----	
Beryllium, total	7440-41-7	E420/WP	mg/L	0.000022	<0.000020	<0.000020	<0.000020	----	----	----	



## Analytical Results Evaluation

Matrix: Wastewater				Client sample ID	REP-2	REP-2a	REP-5	REP-6	----	----	----
				Sampling date/time	15-Jul-2024 10:24	15-Jul-2024 10:35	15-Jul-2024 11:05	15-Jul-2024 11:30	----	----	----
Sub-Matrix				Wastewater	Wastewater	Wastewater	Wastewater	----	----	----	
Analyte	CAS Number	Method/Lab	Unit	WP2417452-001	WP2417452-002	WP2417452-003	WP2417452-004	-----	-----	-----	
<b>Total Metals</b>											
<b>Bismuth, total</b>	7440-69-9	E420/WP	mg/L	<0.000050	<0.000050	<0.000050	0.000058	----	----	----	
<b>Boron, total</b>	7440-42-8	E420/WP	mg/L	0.056	0.048	0.254	0.066	----	----	----	
<b>Cadmium, total</b>	7440-43-9	E420/WP	mg/L	<0.0000050	0.0000108	0.0000210	<0.0000050	----	----	----	
<b>Calcium, total</b>	7440-70-2	E420/WP	mg/L	43.3	32.0	56.4	28.1	----	----	----	
<b>Cesium, total</b>	7440-46-2	E420/WP	mg/L	0.000022	0.000049	0.000014	0.000014	----	----	----	
<b>Chromium, total</b>	7440-47-3	E420/WP	mg/L	0.00051	0.00122	<0.00050	<0.00050	----	----	----	
<b>Cobalt, total</b>	7440-48-4	E420/WP	mg/L	0.00021	0.00032	0.00016	0.00014	----	----	----	
<b>Copper, total</b>	7440-50-8	E420/WP	mg/L	0.00253	0.00352	0.00245	0.00561	----	----	----	
<b>Iron, total</b>	7439-89-6	E420/WP	mg/L	0.201	0.747	0.863	0.455	----	----	----	
<b>Lead, total</b>	7439-92-1	E420/WP	mg/L	0.000187	0.000518	0.000904	0.000115	----	----	----	
<b>Lithium, total</b>	7439-93-2	E420/WP	mg/L	0.0036	0.0034	0.0184	0.0032	----	----	----	
<b>Magnesium, total</b>	7439-95-4	E420/WP	mg/L	6.05	4.61	20.0	5.36	----	----	----	
<b>Manganese, total</b>	7439-96-5	E420/WP	mg/L	0.0638	0.0547	0.0256	0.0288	----	----	----	
<b>Mercury, total</b>	7439-97-6	E508/WP	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	----	----	
<b>Molybdenum, total</b>	7439-98-7	E420/WP	mg/L	0.000972	0.000845	0.00289	0.000440	----	----	----	
<b>Nickel, total</b>	7440-02-0	E420/WP	mg/L	0.00157	0.00179	0.00134	0.00075	----	----	----	
<b>Phosphorus, total</b>	7723-14-0	E420/WP	mg/L	0.058	0.100	<0.050	1.35	----	----	----	
<b>Potassium, total</b>	7440-09-7	E420/WP	mg/L	4.54	3.20	9.57	3.83	----	----	----	
<b>Rubidium, total</b>	7440-17-7	E420/WP	mg/L	0.00335	0.00468	0.00177	0.00490	----	----	----	
<b>Selenium, total</b>	7782-49-2	E420/WP	mg/L	<0.000050	0.000156	0.000225	0.000110	----	----	----	
<b>Silicon, total</b>	7440-21-3	E420/WP	mg/L	0.29	0.71	2.81	1.18	----	----	----	
<b>Silver, total</b>	7440-22-4	E420/WP	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	
<b>Sodium, total</b>	7440-23-5	E420/WP	mg/L	15.8	12.7	20.0	12.3	----	----	----	
<b>Strontium, total</b>	7440-24-6	E420/WP	mg/L	0.0587	0.0488	0.163	0.0483	----	----	----	
<b>Sulfur, total</b>	7704-34-9	E420/WP	mg/L	3.45	3.16	9.88	3.93	----	----	----	
<b>Tellurium, total</b>	13494-80-9	E420/WP	mg/L	0.00024	<0.00020	<0.00020	<0.00020	----	----	----	
<b>Thallium, total</b>	7440-28-0	E420/WP	mg/L	0.000011	0.000017	<0.000010	<0.000010	----	----	----	
<b>Thorium, total</b>	7440-29-1	E420/WP	mg/L	<0.00010	0.00027	0.00013	<0.00010	----	----	----	
<b>Tin, total</b>	7440-31-5	E420/WP	mg/L	<0.00010	0.00011	0.00032	0.00042	----	----	----	



## Analytical Results Evaluation

Matrix: Wastewater				Client sample ID	REP-2	REP-2a	REP-5	REP-6	----	----	----
				Sampling date/time	15-Jul-2024 10:24	15-Jul-2024 10:35	15-Jul-2024 11:05	15-Jul-2024 11:30	----	----	----
Sub-Matrix				Wastewater	Wastewater	Wastewater	Wastewater	----	----	----	
Analyte	CAS Number	Method/Lab	Unit	WP2417452-001	WP2417452-002	WP2417452-003	WP2417452-004	-----	-----	-----	
<b>Total Metals</b>											
<b>Titanium, total</b>	7440-32-6	E420/WP	mg/L	0.00168	0.0234	0.00904	0.00058	----	----	----	
<b>Tungsten, total</b>	7440-33-7	E420/WP	mg/L	<0.00010	<0.00010	Not Detected	<0.00010	----	----	----	
<b>Uranium, total</b>	7440-61-1	E420/WP	mg/L	0.0116	0.00504	0.00804	0.00142	----	----	----	
<b>Vanadium, total</b>	7440-62-2	E420/WP	mg/L	<0.00050	0.00112	<0.00050	<0.00050	----	----	----	
<b>Zinc, total</b>	7440-66-6	E420/WP	mg/L	<0.0030	0.0104	0.0596	0.0206	----	----	----	
<b>Zirconium, total</b>	7440-67-7	E420/WP	mg/L	0.00027	0.00024	<0.00020	0.00020	----	----	----	
<b>Aggregate Organics</b>											
<b>Biochemical oxygen demand [BOD]</b>	----	E550/WP	mg/L	<2.0	<2.0	2.2	10.5	----	----	----	
<b>Carbonaceous biochemical oxygen demand [CBOD]</b>	----	E555/WP	mg/L	<2.0	<2.0	<2.0	5.5	----	----	----	
<b>Oil &amp; grease (gravimetric)</b>	----	E567/WP	mg/L	<5.0	<5.0	<5.0	<5.0	----	----	----	
<b>Phenols, total (4AAP)</b>	----	E562/WT	mg/L	0.0013	0.0014	0.0023	0.0021	----	----	----	
<b>Volatile Organic Compounds</b>											
<b>Benzene</b>	71-43-2	E611A/WP	mg/L	<0.00050	<0.00050	<0.00050	----	----	----	----	
<b>Ethylbenzene</b>	100-41-4	E611A/WP	mg/L	<0.00050	<0.00050	<0.00050	----	----	----	----	
<b>Toluene</b>	108-88-3	E611A/WP	mg/L	<0.00050	<0.00050	<0.00050	----	----	----	----	
<b>Xylene, m+p-</b>	179601-23-1	E611A/WP	mg/L	<0.00040	<0.00040	<0.00040	----	----	----	----	
<b>Xylene, o-</b>	95-47-6	E611A/WP	mg/L	<0.00030	<0.00030	<0.00030	----	----	----	----	
<b>Xylenes, total</b>	1330-20-7	E611A/WP	mg/L	<0.00050	<0.00050	<0.00050	----	----	----	----	
<b>BTEX, total</b>	----	E611A/WP	mg/L	<0.0010	<0.0010	<0.0010	----	----	----	----	
<b>Hydrocarbons</b>											
<b>F1 (C6-C10)</b>	----	E581.F1/WP	mg/L	<0.10	<0.10	<0.10	----	----	----	----	
<b>F1-BTEX</b>	----	EC580/WP	mg/L	<0.100	<0.100	<0.100	----	----	----	----	
<b>F2 (C10-C16)</b>	----	E601/WP	mg/L	<0.10	<0.10	0.33	----	----	----	----	
<b>F3 (C16-C34)</b>	----	E601/WP	mg/L	0.26	<0.25	0.68	----	----	----	----	
<b>F4 (C34-C50)</b>	----	E601/WP	mg/L	<0.25	<0.25	<0.25	----	----	----	----	
<b>TEH (C10-C50)</b>	n/a	E601/WP	mg/L	<0.40	<0.40	1.01	----	----	----	----	
<b>TEH (C16-C50)</b>	----	E601/WP	mg/L	<0.40	<0.40	0.68	----	----	----	----	
<b>Hydrocarbons Surrogates</b>											



## Analytical Results Evaluation

Matrix: Wastewater				Client sample ID	REP-2	REP-2a	REP-5	REP-6	----	----	----
				Sampling date/time	15-Jul-2024 10:24	15-Jul-2024 10:35	15-Jul-2024 11:05	15-Jul-2024 11:30	----	----	----
Sub-Matrix				Wastewater	Wastewater	Wastewater	Wastewater	----	----	----	
Analyte	CAS Number	Method/Lab	Unit	WP2417452-001	WP2417452-002	WP2417452-003	WP2417452-004	-----	-----	-----	
<b>Hydrocarbons Surrogates</b>											
<b>Bromobenzotrifluoride, 2- (F2-F4 surrogate)</b>	392-83-6	E601/WP	%	97.9	95.4	94.7	----	----	----	----	
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	%	98.6	102	109	----	----	----	----	
<b>Volatile Organic Compounds Surrogates</b>											
<b>Bromofluorobenzene, 4-</b>	460-00-4	E611A/WP	%	90.2	97.5	90.2	----	----	----	----	
Difluorobenzene, 1,4-	540-36-3	E611A/WP	%	102	104	110	----	----	----	----	
<b>Polycyclic Aromatic Hydrocarbons</b>											
<b>Acenaphthene</b>	83-32-9	E641A/WT	µg/L	<0.010	<0.010	0.031	----	----	----	----	
Acenaphthylene	208-96-8	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
Acridine	260-94-6	E641A/WT	µg/L	<0.010	<0.010	0.028	----	----	----	----	
Anthracene	120-12-7	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
<b>Benz(a)anthracene</b>	56-55-3	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
Benzo(a)pyrene	50-32-8	E641A/WT	µg/L	<0.0050	<0.0050	<0.0050	----	----	----	----	
<b>Benzo(b+j)fluoranthene</b>	n/a	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	µg/L	<0.015	<0.015	<0.015	----	----	----	----	
<b>Benzo(g,h,i)perylene</b>	191-24-2	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
Benzo(k)fluoranthene	207-08-9	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
<b>Chrysene</b>	218-01-9	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
Dibenz(a,h)anthracene	53-70-3	E641A/WT	µg/L	<0.0050	<0.0050	<0.0050	----	----	----	----	
<b>Fluoranthene</b>	206-44-0	E641A/WT	µg/L	<0.010	<0.010	0.016	----	----	----	----	
Fluorene	86-73-7	E641A/WT	µg/L	<0.010	<0.010	0.024	----	----	----	----	
<b>Indeno(1,2,3-c,d)pyrene</b>	193-39-5	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	
Methylnaphthalene, 1-	90-12-0	E641A/WT	µg/L	<0.010	<0.010	0.052	----	----	----	----	
<b>Methylnaphthalene, 1+2-</b>	----	E641A/WT	µg/L	<0.015	<0.015	0.099	----	----	----	----	
Methylnaphthalene, 2-	91-57-6	E641A/WT	µg/L	<0.010	<0.010	0.047	----	----	----	----	
<b>Naphthalene</b>	91-20-3	E641A/WT	µg/L	<0.050	<0.050	<0.050	----	----	----	----	
Phenanthrene	85-01-8	E641A/WT	µg/L	<0.020	<0.020	<0.020	----	----	----	----	
<b>Pyrene</b>	129-00-0	E641A/WT	µg/L	<0.010	<0.010	0.013	----	----	----	----	
Quinoline	91-22-5	E641A/WT	µg/L	<0.050	<0.050	<0.425 <sup>DLM</sup>	----	----	----	----	
<b>B(a)P total potency equivalents [B(a)P TPE]</b>	----	E641A/WT	µg/L	<0.010	<0.010	<0.010	----	----	----	----	



## Analytical Results Evaluation

Matrix: Wastewater				Client sample ID	REP-2	REP-2a	REP-5	REP-6	----	----	----
				Sampling date/time	15-Jul-2024 10:24	15-Jul-2024 10:35	15-Jul-2024 11:05	15-Jul-2024 11:30	----	----	----
				Sub-Matrix	Wastewater	Wastewater	Wastewater	Wastewater	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WP2417452-001	WP2417452-002	WP2417452-003	WP2417452-004	-----	-----	-----	
<b>Polycyclic Aromatic Hydrocarbons</b>											
PAHs, high molecular weight (BC AWQ)	n/a	E641A/WT	µg/L	<0.030	<0.030	<0.030	----	----	----	----	
PAHs, low molecular weight (BC AWQ)	n/a	E641A/WT	µg/L	<0.060	<0.060	<0.060	----	----	----	----	
PAHs, total (CCME sewer 18)	n/a	E641A/WT	µg/L	<0.070	<0.070	0.183	----	----	----	----	
PAHs, total (EPA 16)	n/a	E641A/WT	µg/L	<0.065	<0.065	0.084	----	----	----	----	
<b>Polycyclic Aromatic Hydrocarbons Surrogates</b>											
Chrysene-d12	1719-03-5	E641A/WT	%	96.7	102	101	----	----	----	----	
Naphthalene-d8	1146-65-2	E641A/WT	%	85.6	105	102	----	----	----	----	
Phenanthrene-d10	1517-22-2	E641A/WT	%	112	110	99.8	----	----	----	----	

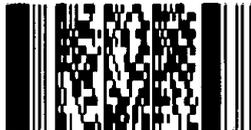
Please refer to the General Comments section for an explanation of any result qualifiers detected.

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

Key:

www.alsenv.com

<b>Report To</b> Contact and company name below will appear on the final report			<b>Report Format / Distribution</b>			<b>Select Service Level Below - Please confirm all E&amp;P TATs with your AM - surcharges will apply</b>																																																																					
Company: Hamlet of Naujaat			Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply																																																																					
Contact: Jimmy Tegumiar			Quality Control (QC) Report with Report <input type="checkbox"/> YES <input type="checkbox"/> NO			PRIORITY (Business Days) 4 day [P4] <input type="checkbox"/> 3 day [P3] <input type="checkbox"/> 2 day [P2] <input type="checkbox"/>		EMERGENCY 1 Business day [E1] <input type="checkbox"/> Same Day, Weekend or Statutory holiday [E0] <input type="checkbox"/>																																																																			
Phone: 867-462-9952			<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked																																																																								
Company address below will appear on the final report			Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			Date and Time Required for all E&P TATs:																																																																					
Street: PO Box 10			Email 1 or Fax: saonaujaat@qinliq.com			For tests that can not be performed according to the service level selected, you will be contacted.																																																																					
City/Province: Naujaat, NU			Email 2: mgavin@gov.nu.ca			<b>Analysis Request</b> Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																					
Postal Code: X0C 0H0			Email 3: mlusty@gov.nu.ca																																																																								
Invoice To: Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			<b>Invoice Distribution</b>			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>BOD</td><td>Routine</td><td>CBOD</td><td>Total Metals</td><td>Total Mercury</td><td>Nutrients/Phenols (x2)</td><td>Bacteria</td><td>Oil &amp; Grease (x2)</td><td>BTEX-F1 (x3)</td><td>F2-F4 (x2)</td><td>PAH (x2)</td><td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Number of Containers</td> </tr> <tr> <td>REP-2</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>17</td> </tr> <tr> <td>REP-2a</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>17</td> </tr> <tr> <td>REP-5</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>17</td> </tr> <tr> <td>REP-6</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>10</td> </tr> </table>										BOD	Routine	CBOD	Total Metals	Total Mercury	Nutrients/Phenols (x2)	Bacteria	Oil & Grease (x2)	BTEX-F1 (x3)	F2-F4 (x2)	PAH (x2)	Number of Containers	REP-2	R	R	R	R	R	R	R	R	R	R	17	REP-2a	R	R	R	R	R	R	R	R	R	R	17	REP-5	R	R	R	R	R	R	R	R	R	R	17	REP-6	R	R	R	R	R	R	R	R	R	R	10
BOD	Routine	CBOD	Total Metals	Total Mercury	Nutrients/Phenols (x2)											Bacteria	Oil & Grease (x2)	BTEX-F1 (x3)	F2-F4 (x2)	PAH (x2)	Number of Containers																																																						
REP-2	R	R	R	R	R											R	R	R	R	R		17																																																					
REP-2a	R	R	R	R	R											R	R	R	R	R		17																																																					
REP-5	R	R	R	R	R											R	R	R	R	R		17																																																					
REP-6	R	R	R	R	R											R	R	R	R	R		10																																																					
Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX																																																																								
Company:			Email 1 or Fax:																																																																								
Contact:			Email 2:																																																																								
<b>Project Information</b>			<b>Oil and Gas Required Fields (client use)</b>																																																																								
ALS Account # / Quote #: W10624			AFE/Cost Center: PO#																																																																								
Job #:			Major/Minor Code: Routing Code:																																																																								
PO / AFE:			Requisitioner:																																																																								
LSD:			Location:																																																																								
ALS Lab Work Order # (lab use only)			ALS Contact:			Sampler:																																																																					
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)				Date (dd-mmm-yy)	Time (hh:mm)	Sample Type																																																																				
	REP-2				15-JUL-24	10:21	Effluent																																																																				
	REP-2a				15-JUL-24	10:35	Effluent																																																																				
	REP-5				15-JUL-24	11:05	Effluent																																																																				
	REP-6				15-JUL-24	11:30	Effluent																																																																				

 Environmental Division  
 Winnipeg  
 Work Order Reference  
**WP2417452**


Telephone: +1 204 265 9720

**Drinking Water (DW) Samples**

 Are samples taken from a Regulated DW System?  YES  NO

 Are samples for human drinking water use?  YES  NO

NUNAVUT-WW-GRP1-WP, BTEX, F1-F4, PAH

Criteria to add on report by clicking on the drop-down list below (electronic COC only)

**SAMPLE CONDITION AS RECEIVED (lab use only)**

 Frozen  SIF Observations Yes  No   
 Ice Packs  Ice Cubes  Custody seal intact Yes  No   
 Cooling Initiated 

INITIAL COOLER TEMPERATURES °C: \_\_\_\_\_ FINAL COOLER TEMPERATURES °C: 15.1°C

**SHIPMENT RELEASE (client use)**
**INITIAL SHIPMENT RECEPTION (lab use only)**
**FINAL SHIPMENT RECEPTION (lab use only)**

Released by: Ryan Kum	Date: July 15, 2024	Time: 12:00	Received by: ledinghau	Date: JUL 16 2024	Time: 11:07	Received by:	Date:	Time:
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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

OCTOBER 2015 (R01)

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Sample Intake							
Client: Hamlet of Naujaat					COC receipt info complete <input checked="" type="checkbox"/>		
Express TAT?	no	same day	1 day	2 day	3 days	4 day	
Short hold time?	no	<24 hrs	1 day	2 days	3 days	4 days	
Matrix	Water	Soil/solid	Air	Biota	Food/micro	Other	
Total number of bottles/fractions:							
Green/white	8x500	4x250	Orange/black				
Purple/white	9x100		Dark blue/white	12x100	6x40		
Red/white	4x125		Black/white				
Dark green/white			Brown/white				
Grey/white			Pink/white				
Yellow/black	8x250	4x40	Beige/white				
Light blue/white	4x200		Other (specify)				
Comments:							
15.1°C, ice packs ✓, cooling initiated							

Sample Login					
Receipt Window	✓/X	N/A	Bottles	✓/X	N/A
# of fractions, matrix and submatrix	✓		All received bottles have IDs	✓	
Client, 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	✓/X	N/A	Report/invoice/EDD recipients	✓	
Sample date/time	✓		Report types/formats	✓	
Sample ID/description	✓		Post-committing	✓/X	N/A
Sales items	✓		Runs built and field data entered		✓
Guidelines/thresholds	✗	✓	Billing information entered		✓
Additional sample/WO information		✓	Action Required?	Yes	No
Due Dates	✓/X	N/A	Update default receipt data		✓
COC/GEL/client 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)	✓	
Comments: diss Metals bottles not received - subsample approved codes incorrect in code - hardness from diss instead of total + FC-H instead of FC.					

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# Appendix C

# Field Log

Name of Sampler(s): KJ

Date of Sampling: JULY 15, 2024

Time of Sampling: 11:05 AM

Monitoring Station Number: REP-5

GPS Coordinates: N 66° 31.701' # W 086° 13.499' "

Weather Conditions: SUNNY

## Samples:

- 500 mL BOD
- 500 mL Routine
- 500 mL CBOD
- 40 mL Glass Mercury Vial + Pres
- 100 mL Amber Nutrients + Pres
- 100 mL Amber Phenols + Pres
- 250 mL Sterile Bacteria Bottle
- 2 x 250 mL Amber Oil & Grease + Pres

- 60 mL Metals + Pres
- 3 x 40 mL BTEX, F1 Vials + Pres
- 2 x 100 mL Amber F2-F4 Vials + Pres
- 2 x 250 mL Amber PAH + Pres

## Other:

<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)

Sample taken at different point by accident

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Field Log

Name of Sampler(s): KJ

Date of Sampling: JULY 15, 2024

Time of Sampling: 10:24

Monitoring Station Number: REP-2

GPS Coordinates: N 66 ° 32.796 W 086 ° 14.803

Weather Conditions: SUNNY

## Samples:

- 500 mL BOD
- 500 mL Routine
- 500 mL CBOD
- 40 mL Glass Mercury Vial + Pres
- 100 mL Amber Nutrients + Pres
- 100 mL Amber Phenols + Pres
- ~~250 mL Sterile Bacteria Bottle~~
- 2 x 250 mL Amber Oil & Grease + Pres

- 60 mL Metals + Pres
- 3 x 40 mL BTEX, F1 Vials + Pres
- 2 x 100 mL Amber F2-F4 Vials + Pres
- 2 x 250 mL Amber PAH + Pres

## Other:

<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)

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# Field Log

Name of Sampler(s): KJ

Date of Sampling: JULY 15, 2024

Time of Sampling: 11:30

Monitoring Station Number: RED-6

GPS Coordinates: N 66° 31.005' W 086° 12.360'

Weather Conditions: SWIMMY

## Samples:

- 500 mL BOD
- 500 mL Routine
- 500 mL CBOD
- 40 mL Glass Mercury Vial + Pres
- 100 mL Amber Nutrients + Pres
- 100 mL Amber Phenols + Pres
- ~~250 mL Sterile Bacteria Bottle~~
- 2 x 250 mL Amber Oil & Grease + Pres

- 60 mL Metals + Pres
- 3 x 40 mL BTEX, F1 Vials + Pres
- 2 x 100 mL Amber F2-F4 Vials + Pres
- 2 x 250 mL Amber PAH + Pres

### Other:

<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)

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# Field Log

Name of Sampler(s): KJ

Date of Sampling: JULY 15, 2024

Time of Sampling: 10:35

Monitoring Station Number: REP-2A

GPS Coordinates: N 66° 32' 752" W 086° 14' 559"

Weather Conditions: SUNNY

## Samples:

- 500 mL BOD
- 500 mL Routine
- 500 mL CBOD
- 40 mL Glass Mercury Vial + Pres
- 100 mL Amber Nutrients + Pres
- 100 mL Amber Phenols + Pres
- 250 mL Sterile Bacteria Bottle
- 2 x 250 mL Amber Oil & Grease + Pres

- 60 mL Metals + Pres
- 3 x 40 mL BTEX, F1 Vials + Pres
- 2 x 100 mL Amber F2-F4 Vials + Pres
- 2 x 250 mL Amber PAH + Pres

### Other:

<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)

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# Appendix D



Spill	Occurance Date	Spill Region	Location	Location Description	Product Spilled	Quantity	Measurement	Spill Cause	Lead Agency
spill-2024140	May 8, 2024		Repulse Bay, Community, Nunavut	144 to 148 Naujaat	Wastewater/impacted water	Unknown Quantity		Unknown Cause	GN - Government of Nunavut