ANNUAL REPORT
FOR THE MUNICIPALITY OF RANKIN INLET

YEAR BEING REPORTED: 2024

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. **3BM-RAN2025** issued to the **Municipality of Rankin Inlet**.

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

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

Table 1: Summary of water obtained from all sources combined and estimated sewage water discharge in m^3

Month Reported	Quantity of Water Obtained from all sources (m^3)	Quantity of Sewage Waste Discharged (m^3)
January	None	None
February	None	None
March	None	None
April	None	None
May	None	None
June	None	None
July	None	None
August	None	None
September	None	None
October	None	None
November	None	None
December	None	None
ANNUAL TOTAL	None	None

Note: The purpose of this License is the deposit of waste; there is no authorized water use.

II. 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:
- Batteries, empty propane tanks and waste oil are stored in shipping containers in designated areas. The Municipality works closely with Agnico Eagle to ship out hazardous waste, however due to unforeseen shipping issues in 2024, hazardous waste was not able to be back hauled. Hazardous waste is ready to be shipped to a licenced disposal facility during the 2025 shipping season.

III. A list of unauthorized discharges and summary of follow-up action taken:
- No unauthorized discharges for the infrastructure under licence 3BM-RAN2025 occurred in 2024.
- List of spills reported to the NT-NU Spill Report Line as listed on the Hazardous Materials Spills Database for Rankin Inlet in 2024 available in Appendix A.

IV. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:
- None

V. 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:
- The initial planning study for a new solid waste site was completed in Fiscal Year 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 shifted to making improvements to the current site. A second planning contract to assess and prioritize the improvements to the current site with the available funding began in 2022 and the final report will be available in 2025.

VI. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and
- None

VII. updates or revisions to the approved Operation and Maintenance Plans:
- None

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Water Licencing Sampling Points:

- No sample was taken in August as the sampling location was dry. Field logs attached in Appendix D.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

- 2023 Annual Report submitted.

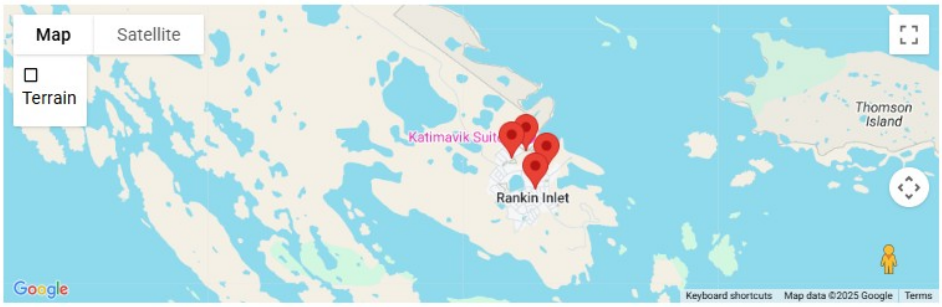
Appendix A: Hazardous Materials Spills Database for Rankin Inlet in 2024

Appendix B: CIRNAC Inspection Report – September 17, 2024

Appendix C: RAN-2 Sampling Results
Certificate of Analysis – July 4, 2024
Certificate of Analysis –September 25, 2024

Appendix D: RAN-2 Field Logs

Appendix A: Hazardous Materials Spills Database for Rankin Inlet in 2024



Spill	Occurance Date	Spill Region	Location	Location Description	Product Spilled	Quantity	Measurement	Spill Cause	Lead Agency
spill-2024280	July 17, 2024		Rankin Inlet, Community, Nunavut	Rankin Inlet	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	7000.00	Liters	Unknown Cause	GN - Government of Nunavut
spill-2024250	June 29, 2024		Rankin Inlet	Coats Island Hudson Strait	Other	Unknown Quantity		Other	CCG/TCMSS - Canadian Coast Guard/Transport Canada, Marine Safety and Security
spill-2024212	June 6, 2024	Kivalliq	Rankin Inlet, Community, Nunavut	Ranking Inlet Housing Unit 411	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	123.00	Liters		GN - Government of Nunavut
spill-2024202	May 30, 2024		Rankin Inlet	Rankin Inlet	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	2000.00	Liters	Other	GN - Government of Nunavut
spill-2024200	May 30, 2024	Kivalliq	Rankin Inlet	33 Plex Rankin Inlet	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	50.00	Liters	Overflow Event	GN - Government of Nunavut
spill-2024126	April 25, 2024	Kivalliq	Rankin Inlet, Community, Nunavut	Rankin Inlet Lake B5 0m	Petroleum - lubricating oil (lube, hydraulic)	10.00	Liters	Other	CIRNAC - Crown-Indigenous Relations and Northern Affairs Canada

Outside of Municipal boundary.

Outside of Municipal boundary.

Appendix B: CIRNAC Inspection Report – September 17, 2024

Water Licence Inspection Report

☒Original
☐Follow-Up Report

Organization	Representative
Hamlet of Rankin Inlet	**Darren Flynn**
Authorization No. / Expiry	**Representative's Title**
3BM-RAN2025/ December 20th 2025	**Senior Administrative Officer**
Inspection Date	**Inspector**
September 17th 2024	**RMO Atuat Shouldice**
Other Authorization/s	

Activities Inspected

☐ **Camp, Commercial** ☐ **Drilling** ☐ **Mining** ☐ **Construction** ☐ **Reclamation** ☐ **Fuel Storage** ☐ **Roads/Hauling** ☐ **Winter Hauling**
☐ **Camp, Private** ☒ **Other Municipal**

Section 1 Comments

On September 17th 2024 an Inspection was conducted of Water Licence 3BM-RAN2025 (Licence) Hamlet of Rankin Inlet. Resource Management Officer Atuat Shouldice (Inspector) for Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) was accompanied by Darren Flynn Senior Administrative Office, Hamlet of Rankin Inlet and Troy Aksalnik Manager of Municipal Works, Hamlet of Rankin Inlet.

-Landfill and domestic waste
Open burning of municipal waste shall be conducted only in accordance with the Government of Nunavut's Environmental Guideline for the Burning and Incineration of Solid Waste (2012), at the designated location at the Solid Waste Disposal Facility. During inspection no opening burning occurred, all location with in facility were marked with signage and an employee of the Hamlet was directing construction and local contractors to locations for specific waste type. Photo #1

-Hazardous waste storage
The Hamlet has been colleting discarded batteries, empty propane, waste oil and storing items in shipping containers and in designated areas. The hamlet is following Licence conditions item Part D Item 4. The Hamlet of Rankin Inlet works closely with Agnico Eagle (AEM is a nearby mining corporation) to ship out Hazardous waste and has done so in the past. Do to unforeseen shipping issues this year waste wasn't able to be back hauled, Hazardous waste sits ready to be shipped, waste is scheduled to be ship to a licenced disposal facility during the 2025 shipping season. Photo #2

-Administrative
As of October 21st , 2024, The 2023 annual report was not submitted to the Nunavut Water Board.

Section 2 Non-Compliance with Licence

Non-Compliance with the Licence:

- Part B Item 1: Failure to submit annual report

Section 3 Action Required

The Licensee shall:

- Submit information and work with CGS to allow for submission of the annual report by November 26th 2024.

Section 4 Other

- During the inspection it was noted the landfill has reached its capacity , Countless efforts made by the Municipal Foreman and The Hamlet to stretch the life of the landfill have been made. Regularly domestic waste is capped with crushed stone to act as a fire barrier. The landfill is locked during the evening and monitored with security camera for the publics safety. Inspector was informed that the capped domestic waste location is often monitored for risk of collapse due to burning waste in the landfill and often steam is witnessed during the winter months coming from different locations within the landfill.

Licensee or Representative	Inspector's Name
Darren Flynn	Atuat Shouldice
Signature	**Signature**
Date	**Date**
	October 31st 2024

Office Use Only: Follow-up report to be issued by Inspector ☐ Yes ☐ No

PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
Tuesday, September 17, 2024	3BM-RAN2025	Samsung s21	Atuat Shouldice

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 1	N62 48' 6.69" W92 4' 37.43

Description:
Domestic waste drop off location within landfill, Front end loader used crushed rock to build up fire barrier.

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 2	N62 48’ 12.16 W92 4’ 48.17

Description:

Discarded Batteries being prepared for back haul at designated hazardous waste location.

Appendix C: RAN-2 Sampling Results

ALS Canada Ltd.

right solutions.
right partner.

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: **WP2416756**	Page	: 1 of 8
Client	: **Hamlet of Rankin Inlet**	Laboratory	: ALS Environmental - Winnipeg
Contact	: Tommy Sharp	Account Manager	: Craig Riddell
Address	: PO Box 310 Rankin Inlet NU Canada X0C 0G0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	: 867 645 6467	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 05-Jul-2024 12:20
PO	: ----	Date Analysis Commenced	: 05-Jul-2024
C-O-C number	: ----	Issue Date	: 27-Nov-2024 09:46
Sampler	: ----		
Site	: ----		
Quote number	: 2024 Analytical Testing		
No. of samples received	: 1		
No. of samples analysed	: 1		

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.

Signatories	*Position*	*Laboratory Department*
Ana Srzic		Organics, Winnipeg, Manitoba
Jade Soliman		Microbiology, Winnipeg, Manitoba
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Leila Conyard	Lab Assistant	Metals, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Oleksandr Busel		Inorganics, Winnipeg, Manitoba
Oleksandr Busel		Metals, Winnipeg, Manitoba
Rhovee Guevarra		Inorganics, Winnipeg, Manitoba
Ryan Velasco		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).

Unit	*Description*
-	no units
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

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).
SFP	Sample was filtered and preserved at the laboratory.

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	04-Jul-2024 10:55	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
					WP2416756-001	--------	--------	--------	--------	--------	--------
Physical Tests											
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/WP	mg/L		143	----	----	----	----	----	----
Alkalinity, carbonate (as CO3)	3812-32-6	E290/WP	mg/L		<1.0	----	----	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WP	mg/L		<1.0	----	----	----	----	----	----
Conductivity	----	E100/WP	µS/cm		1030	----	----	----	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	mg/L		463	----	----	----	----	----	----
pH	----	E108/WP	pH units		8.13	----	----	----	----	----	----
Solids, total suspended [TSS]	----	E160/WP	mg/L		<3.0	----	----	----	----	----	----
Anions and Nutrients											
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L		0.104	----	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/WP	mg/L		32.9	----	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WP	mg/L		1.06	----	----	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/WP	mg/L		1.06	----	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WP	mg/L		<0.020 DLM	----	----	----	----	----	----
Phosphorus, total	7723-14-0	E372/WP	mg/L		0.026	----	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	mg/L		389	----	----	----	----	----	----
Organic / Inorganic Carbon											
Carbon, total organic [TOC]	----	E355-L/WP	mg/L		13.2	----	----	----	----	----	----
Microbiological Tests											
Coliforms, thermotolerant [fecal]	----	E010.FC/WP	MPN/10 0mL		579 MBHT	----	----	----	----	----	----
Coliforms, total	----	E010.QT97/WP	MPN/100 mL		921 MBHT	----	----	----	----	----	----
Coliforms, Escherichia coli [E. coli]	----	E010.QT97/WP	MPN/10 0mL		613 MBHT	----	----	----	----	----	----
Total Metals											
Aluminum, total	7429-90-5	E420/WP	mg/L		0.0094	----	----	----	----	----	----
Antimony, total	7440-36-0	E420/WP	mg/L		0.00066	----	----	----	----	----	----
Arsenic, total	7440-38-2	E420/WP	mg/L		0.00116	----	----	----	----	----	----
Barium, total	7440-39-3	E420/WP	mg/L		0.0359	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	04-Jul-2024 10:55	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
				WP2416756-001	--------	--------	--------	--------	--------	--------	--------
Total Metals											
Beryllium, total	7440-41-7	E420/WP	mg/L	<0.000020	----	----	----	----	----	----	----
Bismuth, total	7440-69-9	E420/WP	mg/L	Not Detected	----	----	----	----	----	----	----
Boron, total	7440-42-8	E420/WP	mg/L	0.369	----	----	----	----	----	----	----
Cadmium, total	7440-43-9	E420/WP	mg/L	0.0000254	----	----	----	----	----	----	----
Calcium, total	7440-70-2	E420/WP	mg/L	155	----	----	----	----	----	----	----
Cesium, total	7440-46-2	E420/WP	mg/L	0.000026	----	----	----	----	----	----	----
Chromium, total	7440-47-3	E420/WP	mg/L	<0.00050	----	----	----	----	----	----	----
Cobalt, total	7440-48-4	E420/WP	mg/L	0.00120	----	----	----	----	----	----	----
Copper, total	7440-50-8	E420/WP	mg/L	0.0180	----	----	----	----	----	----	----
Iron, total	7439-89-6	E420/WP	mg/L	0.652	----	----	----	----	----	----	----
Lead, total	7439-92-1	E420/WP	mg/L	0.000142	----	----	----	----	----	----	----
Lithium, total	7439-93-2	E420/WP	mg/L	0.0074	----	----	----	----	----	----	----
Magnesium, total	7439-95-4	E420/WP	mg/L	18.4	----	----	----	----	----	----	----
Manganese, total	7439-96-5	E420/WP	mg/L	0.0722	----	----	----	----	----	----	----
Mercury, total	7439-97-6	E508/WP	mg/L	<0.0000050	----	----	----	----	----	----	----
Molybdenum, total	7439-98-7	E420/WP	mg/L	0.00209	----	----	----	----	----	----	----
Nickel, total	7440-02-0	E420/WP	mg/L	0.0132	----	----	----	----	----	----	----
Phosphorus, total	7723-14-0	E420/WP	mg/L	<0.050	----	----	----	----	----	----	----
Potassium, total	7440-09-7	E420/WP	mg/L	11.1	----	----	----	----	----	----	----
Rubidium, total	7440-17-7	E420/WP	mg/L	0.00760	----	----	----	----	----	----	----
Selenium, total	7782-49-2	E420/WP	mg/L	0.000316	----	----	----	----	----	----	----
Silicon, total	7440-21-3	E420/WP	mg/L	0.76	----	----	----	----	----	----	----
Silver, total	7440-22-4	E420/WP	mg/L	<0.000010	----	----	----	----	----	----	----
Sodium, total	7440-23-5	E420/WP	mg/L	31.6	----	----	----	----	----	----	----
Strontium, total	7440-24-6	E420/WP	mg/L	0.705	----	----	----	----	----	----	----
Sulfur, total	7704-34-9	E420/WP	mg/L	140	----	----	----	----	----	----	----
Tellurium, total	13494-80-9	E420/WP	mg/L	<0.00020	----	----	----	----	----	----	----
Thallium, total	7440-28-0	E420/WP	mg/L	0.000015	----	----	----	----	----	----	----
Thorium, total	7440-29-1	E420/WP	mg/L	Not Detected	----	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	04-Jul-2024 10:55	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
				WP2416756-001	--------	--------	--------	--------	--------	--------	--------
Total Metals											
Tin, total	7440-31-5	E420/WP	mg/L	0.00031	----	----	----	----	----	----	----
Titanium, total	7440-32-6	E420/WP	mg/L	<0.00030	----	----	----	----	----	----	----
Tungsten, total	7440-33-7	E420/WP	mg/L	Not Detected	----	----	----	----	----	----	----
Uranium, total	7440-61-1	E420/WP	mg/L	0.00286	----	----	----	----	----	----	----
Vanadium, total	7440-62-2	E420/WP	mg/L	<0.00050	----	----	----	----	----	----	----
Zinc, total	7440-66-6	E420/WP	mg/L	0.0115	----	----	----	----	----	----	----
Zirconium, total	7440-67-7	E420/WP	mg/L	<0.00020	----	----	----	----	----	----	----
Dissolved Metals											
Mercury, dissolved	7439-97-6	E509/WP	mg/L	<0.0000050 SFP	----	----	----	----	----	----	----
Dissolved mercury filtration location	----	EP509/WP	-	Laboratory	----	----	----	----	----	----	----
Aggregate Organics											
Biochemical oxygen demand [BOD]	----	E550/WP	mg/L	<2.0	----	----	----	----	----	----	----
Carbonaceous biochemical oxygen demand [CBOD]	----	E555/WP	mg/L	<2.0	----	----	----	----	----	----	----
Oil & grease (gravimetric)	----	E567/WP	mg/L	<5.0	----	----	----	----	----	----	----
Phenols, total (4AAP)	----	E562/WT	mg/L	0.0013	----	----	----	----	----	----	----
Volatile Organic Compounds											
Benzene	71-43-2	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	----
Ethylbenzene	100-41-4	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	----
Toluene	108-88-3	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611A/WP	mg/L	<0.00040	----	----	----	----	----	----	----
Xylene, o-	95-47-6	E611A/WP	mg/L	<0.00030	----	----	----	----	----	----	----
Xylenes, total	1330-20-7	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	----
BTEX, total	----	E611A/WP	mg/L	<0.0010	----	----	----	----	----	----	----
Hydrocarbons											
F1 (C6-C10)	----	E581.F1/WP	mg/L	<0.10	----	----	----	----	----	----	----
F1-BTEX	----	EC580/WP	mg/L	<0.100	----	----	----	----	----	----	----
F2 (C10-C16)	----	E601/WP	mg/L	<0.10	----	----	----	----	----	----	----
F3 (C16-C34)	----	E601/WP	mg/L	<0.25	----	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	04-Jul-2024 10:55	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
					WP2416756-001	--------	--------	--------	--------	--------	--------
Hydrocarbons											
F4 (C34-C50)	----	E601/WP	mg/L		<0.25	----	----	----	----	----	----
TEH (C10-C50)	n/a	E601/WP	mg/L		<0.40	----	----	----	----	----	----
TEH (C16-C50)	----	E601/WP	mg/L		<0.40	----	----	----	----	----	----
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WP	%		94.5	----	----	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	%		102	----	----	----	----	----	----
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611A/WP	%		91.2	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/WP	%		105	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Acenaphthylene	208-96-8	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Acridine	260-94-6	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Anthracene	120-12-7	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/WT	µg/L		<0.0050	----	----	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	µg/L		<0.015	----	----	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Chrysene	218-01-9	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/WT	µg/L		<0.0050	----	----	----	----	----	----
Fluoranthene	206-44-0	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Fluorene	86-73-7	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Methylnaphthalene, 1+2-	----	E641A/WT	µg/L		<0.015	----	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Naphthalene	91-20-3	E641A/WT	µg/L		<0.050	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	04-Jul-2024 10:55	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
					WP2416756-001	--------	--------	--------	--------	--------	--------
Polycyclic Aromatic Hydrocarbons											
Phenanthrene	85-01-8	E641A/WT	µg/L		<0.020	----	----	----	----	----	----
Pyrene	129-00-0	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Quinoline	91-22-5	E641A/WT	µg/L		<0.050	----	----	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/WT	µg/L		<0.030	----	----	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/WT	µg/L		<0.060	----	----	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/WT	µg/L		<0.070	----	----	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/WT	µg/L		<0.065	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Chrysene-d12	1719-03-5	E641A/WT	%		119	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/WT	%		86.9	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/WT	%		100	----	----	----	----	----	----

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:

ALS Canada Ltd.

right solutions.
right partner.

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: **WP2422861**	Page	: 1 of 8
Client	: **Hamlet of Rankin Inlet**	Laboratory	: ALS Environmental - Winnipeg
Contact	: Tommy Sharp	Account Manager	: Craig Riddell
Address	: PO Box 310 Rankin Inlet NU Canada X0C 0G0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	: 867 645 6467	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 26-Sep-2024 11:11
PO	: ----	Date Analysis Commenced	: 26-Sep-2024
C-O-C number	: ----	Issue Date	: 27-Nov-2024 09:47
Sampler	: ----		
Site	: ----		
Quote number	: 2024 Analytical Testing		
No. of samples received	: 1		
No. of samples analysed	: 1		

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.

Signatories	*Position*	*Laboratory Department*
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Lee McTavish		Metals, Winnipeg, Manitoba
Leila Conyard	Lab Assistant	Metals, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba
Oleksandr Busel		Inorganics, Winnipeg, Manitoba
Oleksandr Busel		Metals, Winnipeg, Manitoba
Oren Wurenqiqige	Analyst	Microbiology, Winnipeg, Manitoba
Ryan Velasco		Organics, Winnipeg, Manitoba
Stephanie Okoye		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).

Unit	*Description*
-	no units
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

Qualifier	Description
SFP	Sample was filtered and preserved at the laboratory.

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	25-Sep-2024 14:05	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
				WP2422861-001	--------	--------	--------	--------	--------	--------	--------
Physical Tests											
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/WP	mg/L	166	----	----	----	----	----	----	----
Alkalinity, carbonate (as CO3)	3812-32-6	E290/WP	mg/L	<1.0	----	----	----	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WP	mg/L	<1.0	----	----	----	----	----	----	----
Conductivity	----	E100/WP	µS/cm	760	----	----	----	----	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	mg/L	275	----	----	----	----	----	----	----
pH	----	E108/WP	pH units	8.08	----	----	----	----	----	----	----
Solids, total suspended [TSS]	----	E160/WP	mg/L	<3.0	----	----	----	----	----	----	----
Anions and Nutrients											
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L	0.0435	----	----	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/WP	mg/L	47.7	----	----	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WP	mg/L	6.14	----	----	----	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/WP	mg/L	6.16	----	----	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WP	mg/L	0.023	----	----	----	----	----	----	----
Phosphorus, total	7723-14-0	E372/WP	mg/L	<0.020	----	----	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	mg/L	160	----	----	----	----	----	----	----
Organic / Inorganic Carbon											
Carbon, total organic [TOC]	----	E355-L/WP	mg/L	14.3	----	----	----	----	----	----	----
Microbiological Tests											
Coliforms, thermotolerant [fecal]	----	E010.FC/WP	MPN/100mL	58	----	----	----	----	----	----	----
Coliforms, total	----	E010.QT97/WP	MPN/100mL	>2420	----	----	----	----	----	----	----
Coliforms, Escherichia coli [E. coli]	----	E010.QT97/WP	MPN/100mL	39	----	----	----	----	----	----	----
Total Metals											
Aluminum, total	7429-90-5	E420/WP	mg/L	0.0242	----	----	----	----	----	----	----
Antimony, total	7440-36-0	E420/WP	mg/L	0.00084	----	----	----	----	----	----	----
Arsenic, total	7440-38-2	E420/WP	mg/L	0.00104	----	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	25-Sep-2024 14:05	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
				WP2422861-001	--------	--------	--------	--------	--------	--------	--------
Total Metals											
Barium, total	7440-39-3	E420/WP	mg/L	0.0292	----	----	----	----	----	----	----
Beryllium, total	7440-41-7	E420/WP	mg/L	<0.000020	----	----	----	----	----	----	----
Bismuth, total	7440-69-9	E420/WP	mg/L	<0.000050	----	----	----	----	----	----	----
Boron, total	7440-42-8	E420/WP	mg/L	0.306	----	----	----	----	----	----	----
Cadmium, total	7440-43-9	E420/WP	mg/L	0.0000463	----	----	----	----	----	----	----
Calcium, total	7440-70-2	E420/WP	mg/L	89.2	----	----	----	----	----	----	----
Cesium, total	7440-46-2	E420/WP	mg/L	0.000023	----	----	----	----	----	----	----
Chromium, total	7440-47-3	E420/WP	mg/L	<0.00050	----	----	----	----	----	----	----
Cobalt, total	7440-48-4	E420/WP	mg/L	0.00068	----	----	----	----	----	----	----
Copper, total	7440-50-8	E420/WP	mg/L	0.0331	----	----	----	----	----	----	----
Iron, total	7439-89-6	E420/WP	mg/L	0.060	----	----	----	----	----	----	----
Lead, total	7439-92-1	E420/WP	mg/L	0.000070	----	----	----	----	----	----	----
Lithium, total	7439-93-2	E420/WP	mg/L	0.0073	----	----	----	----	----	----	----
Magnesium, total	7439-95-4	E420/WP	mg/L	12.7	----	----	----	----	----	----	----
Manganese, total	7439-96-5	E420/WP	mg/L	0.0196	----	----	----	----	----	----	----
Mercury, total	7439-97-6	E508/WP	mg/L	<0.0000050	----	----	----	----	----	----	----
Molybdenum, total	7439-98-7	E420/WP	mg/L	0.00183	----	----	----	----	----	----	----
Nickel, total	7440-02-0	E420/WP	mg/L	0.0106	----	----	----	----	----	----	----
Phosphorus, total	7723-14-0	E420/WP	mg/L	<0.050	----	----	----	----	----	----	----
Potassium, total	7440-09-7	E420/WP	mg/L	8.84	----	----	----	----	----	----	----
Rubidium, total	7440-17-7	E420/WP	mg/L	0.00661	----	----	----	----	----	----	----
Selenium, total	7782-49-2	E420/WP	mg/L	0.000381	----	----	----	----	----	----	----
Silicon, total	7440-21-3	E420/WP	mg/L	0.74	----	----	----	----	----	----	----
Silver, total	7440-22-4	E420/WP	mg/L	0.000012	----	----	----	----	----	----	----
Sodium, total	7440-23-5	E420/WP	mg/L	43.4	----	----	----	----	----	----	----
Strontium, total	7440-24-6	E420/WP	mg/L	0.371	----	----	----	----	----	----	----
Sulfur, total	7704-34-9	E420/WP	mg/L	56.6	----	----	----	----	----	----	----
Tellurium, total	13494-80-9	E420/WP	mg/L	<0.00020	----	----	----	----	----	----	----
Thallium, total	7440-28-0	E420/WP	mg/L	0.000016	----	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	25-Sep-2024 14:05	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
				WP2422861-001	--------	--------	--------	--------	--------	--------	
Total Metals											
Thorium, total	7440-29-1	E420/WP	mg/L	<0.00010	----	----	----	----	----	----	
Tin, total	7440-31-5	E420/WP	mg/L	<0.00010	----	----	----	----	----	----	
Titanium, total	7440-32-6	E420/WP	mg/L	0.00082	----	----	----	----	----	----	
Tungsten, total	7440-33-7	E420/WP	mg/L	Not Detected	----	----	----	----	----	----	
Uranium, total	7440-61-1	E420/WP	mg/L	0.00153	----	----	----	----	----	----	
Vanadium, total	7440-62-2	E420/WP	mg/L	<0.00050	----	----	----	----	----	----	
Zinc, total	7440-66-6	E420/WP	mg/L	0.0524	----	----	----	----	----	----	
Zirconium, total	7440-67-7	E420/WP	mg/L	<0.00020	----	----	----	----	----	----	
Dissolved Metals											
Mercury, dissolved	7439-97-6	E509/WP	mg/L	0.0000052 SFP	----	----	----	----	----	----	
Dissolved mercury filtration location	----	EP509/WP	-	Laboratory	----	----	----	----	----	----	
Aggregate Organics											
Biochemical oxygen demand [BOD]	----	E550/WP	mg/L	<2.0	----	----	----	----	----	----	
Carbonaceous biochemical oxygen demand [CBOD]	----	E555/WP	mg/L	<2.0	----	----	----	----	----	----	
Oil & grease (gravimetric)	----	E567/WP	mg/L	<5.0	----	----	----	----	----	----	
Phenols, total (4AAP)	----	E562/EO	mg/L	0.0035	----	----	----	----	----	----	
Volatile Organic Compounds											
Benzene	71-43-2	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	
Ethylbenzene	100-41-4	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	
Toluene	108-88-3	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	
Xylene, m+p-	179601-23-1	E611A/WP	mg/L	<0.00040	----	----	----	----	----	----	
Xylene, o-	95-47-6	E611A/WP	mg/L	<0.00030	----	----	----	----	----	----	
Xylenes, total	1330-20-7	E611A/WP	mg/L	<0.00050	----	----	----	----	----	----	
BTEX, total	----	E611A/WP	mg/L	<0.0010	----	----	----	----	----	----	
Hydrocarbons											
F1 (C6-C10)	----	E581.F1/WP	mg/L	<0.10	----	----	----	----	----	----	
F1-BTEX	----	EC580/WP	mg/L	<0.100	----	----	----	----	----	----	

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	25-Sep-2024 14:05	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
					WP2422861-001	--------	--------	--------	--------	--------	--------
Hydrocarbons											
F2 (C10-C16)	----	E601/WP	mg/L		<0.10	----	----	----	----	----	----
F3 (C16-C34)	----	E601/WP	mg/L		<0.25	----	----	----	----	----	----
F4 (C34-C50)	----	E601/WP	mg/L		<0.25	----	----	----	----	----	----
TEH (C10-C50)	n/a	E601/WP	mg/L		<0.40	----	----	----	----	----	----
TEH (C16-C50)	----	E601/WP	mg/L		<0.40	----	----	----	----	----	----
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WP	%		108	----	----	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	%		82.4	----	----	----	----	----	----
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611A/WP	%		84.1	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/WP	%		105	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Acenaphthylene	208-96-8	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Acridine	260-94-6	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Anthracene	120-12-7	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/WT	µg/L		<0.0050	----	----	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	µg/L		<0.015	----	----	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Chrysene	218-01-9	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/WT	µg/L		<0.0050	----	----	----	----	----	----
Fluoranthene	206-44-0	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Fluorene	86-73-7	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/WT	µg/L		<0.010	----	----	----	----	----	----

Analytical Results Evaluation

Matrix: **Effluent**

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	RAN-2	----	----	----	----	----	----
				Sampling date/time	25-Sep-2024 14:05	----	----	----	----	----	----
				Sub-Matrix	Effluent	----	----	----	----	----	----
				WP2422861-001	--------	--------	--------	--------	--------	--------	--------
Polycyclic Aromatic Hydrocarbons											
Methylnaphthalene, 1+2-	----	E641A/WT	µg/L		<0.015	----	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Naphthalene	91-20-3	E641A/WT	µg/L		<0.050	----	----	----	----	----	----
Phenanthrene	85-01-8	E641A/WT	µg/L		<0.020	----	----	----	----	----	----
Pyrene	129-00-0	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
Quinoline	91-22-5	E641A/WT	µg/L		<0.050	----	----	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	µg/L		<0.010	----	----	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/WT	µg/L		<0.030	----	----	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/WT	µg/L		<0.060	----	----	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/WT	µg/L		<0.070	----	----	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/WT	µg/L		<0.065	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Chrysene-d12	1719-03-5	E641A/WT	%		116	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/WT	%		99.8	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/WT	%		116	----	----	----	----	----	----

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:

Appendix D: RAN-2 Field Logs

Field Log

Name of Sampler(s): MEGAN MUCKPAH-GAVIN, TROY AKSALNIK

Date of Sampling: JULY 4, 2024

Time of Sampling: 10:55 AM

Monitoring Station Number: RAN-2

GPS Coordinates: N 62 ° 48 ' 1 " W 92 ° 4 ' 24 "

Weather Conditions: SUNNY, LIGHT WIND

Samples:

- [x] 500 mL BOD
- [x] 500 mL Routine
- [x] 500 mL CBOD
- [x] 40 mL Glass Mercury Vial + Pres
- [x] 100 mL Amber Nutrients + Pres
- [x] 100 mL Amber Phenols + Pres
- [x] 250 mL Sterile Bacteria Bottle
- [x] **2 x** 250 mL Amber Oil & Grease + Pres
- [x] 60 mL Metals + Pres
- [x] ~~3~~ **3 x** 40 mL BTEX, F1 Vials + Pres
- [x] **2 x** 100 mL Amber F2-F4 Vials + Pres
- [x] **2 x** 250 mL Amber PAH + Pres

Other:

- [ ] _____
- [ ] _____
- [ ] _____

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

Field Log

Name of Sampler(s): TE & RK

Date of Sampling: August 12, 2024

Time of Sampling: 10:00 AM

Monitoring Station Number: RAN-2

GPS Coordinates: N 62 ° 48 ' 0.60 " W 92 ° 4 ' 25.19 "

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:

- [ ) _____
- [ ) _____
- [ ) _____

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

Sampling spot dry sample not taken

Field Log

Name of Sampler(s): TE, MMG, RK

Date of Sampling: September 25, 2024

Time of Sampling: 2:05

Monitoring Station Number: RAN-2

GPS Coordinates: N 62 ° 48 ' 0.60 " W 92 ° 4 ' 25.19 "

Weather Conditions: Cloudy, misty

Samples:

- [x] 500 mL BOD
- [x] 500 mL Routine
- [x] 500 mL CBOD
- [x] 40 mL Glass Mercury Vial + Pres
- [x] 100 mL Amber Nutrients + Pres
- [x] 100 mL Amber Phenols + Pres
- [x] 250 mL Sterile Bacteria Bottle
- [x] **2 x** 250 mL Amber Oil & Grease + Pres
- [x] 60 mL Metals + Pres
- [x] **3 x** 40 mL BTEX, F1 Vials + Pres
- [x] **2 x** 100 mL Amber F2-F4 Vials + Pres
- [x] **2 x** 250 mL Amber PAH + Pres

Other:

- [ ] _____
- [ ] _____
- [ ] _____

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