

**NEW GOLD RAINY RIVER MINE
APPENDIX C
AWS REPORT AND QUARTERLY AIR
REPORTS**

2024 Written Summary
Supporting Documentation for
Amended Environmental Compliance Approval
No. 0412-A2LR4V
Issued to:
New Gold Inc.

Prepared for:

New Gold Inc. - Rainy River Mine
5967 Highway 11/71
Rainy River, Ontario
P0W 1E0

March 2024

Prepared By:

Trinity Consultants Ontario Inc.
885 Don Mills Road, Unit 306
Toronto, Ontario
M3C 1V9

Project # 257201.0037



March 18, 2025

Ministry of the Environment, Conservation and Parks
Director, Environmental Permissions Branch
1st Floor, 135 St Clair Avenue West
Toronto, ON
M4V 1P5

Re: Written Summary for Reporting Year 2024
Amended Environmental Compliance Approval Number 0412-A2LR4V

This is to confirm that New Gold Inc., Rainy River Mine Site, Ontario operated in compliance with the Performance Limits set forth in our Amended Environmental Compliance Approval as noted above.

The attached Summary of Modifications provides the information required by Condition 5.1 of the above noted ECA.

Sincerely,

A handwritten signature in blue ink, appearing to read "Garnet Cornell".

Garnet Cornell
Environment Manager

cc. Area Manager, MECP Kenora
cc. District Manager, MECP Thunder Bay - District

APPENDIX A. SUMMARY OF MODIFICATIONS

AMENDED ECA MODIFICATION LOG

Date	Description of Modification	Emission Summary Dispersion Modelling Report Changes
2024	No modifications were made in the 2024 calendar year which would impact emissions	No changes to emissions or POI concentrations

Revision Date: December 31, 2024

**Written Summary Form for
Environmental Compliance Approvals
(Air and Noise)****General Information and Instructions****General**

Information provided in this form and in any supporting information may be collected and maintained by the Client Services and Permissions Branch of the Ministry of the Environment, Conservation and Parks under the authority of the *Environmental Protection Act*, R.S.O. 1990, c. E.19, as amended ("EPA"), and will be used to evaluate compliance with the Written Summary Form conditions of the Environmental Compliance Approval (Air & Noise) issued under section 20.3 of Part II of the EPA; hereafter referred to as the "Approval". Supporting information may be claimed as confidential; however, the collection, use and dissemination of this information are governed by the *Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c. F.31, as amended. Questions about this collection should be directed to Client Services and Permissions Branch, 135 St Clair Ave. W, 1st Floor, Toronto ON M4V 1P5. Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001.

Instructions

1. Approval holders are responsible for ensuring that they prepare a complete Written Summary in accordance with the conditions of their Approval.
2. The complete Written Summary should be available for review by a ministry personnel upon request. If the conditions of the Approval require the submission of the Written Summary, it should be submitted by email to CofAe.Submission@ontario.ca.
3. A complete Written Summary consists of this completed form and the required supporting information, as identified in Section 2, attached to this form.
4. Questions regarding the completion and submission of this Written Summary Form should be directed to the Air & Noise Unit of the Environmental Permissions Branch of the Ministry of the Environment, Conservation and Parks at the address below:

Ministry of the Environment, Conservation and Parks
Director, Environmental Permissions Branch
135 St. Clair Avenue West, 1st floor
Toronto ON M4V 1P5
Phone: 416-314-8001
Toll Free: 1-800-461-6290
Email: enviropemissions@ontario.ca

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Section 1 - Background Information

Approval Number	Reporting Year (yyyy)	Due Date for Written Summary (mm/dd) (as stated in the conditions of your Approval)
0412-A2LR4V	2024	03/31
Company Name (Name that is listed on the Approval)	Business Identification Number	
New Gold Inc.	876210675	

Facility Address

Civic Address

Unit Number	Street Number	Street Name	PO Box
	5967	Highway 11/71	5

Survey Address (used for a rural location specified for a subdivided township, an unsubdivided township or unsurveyed territory. Not required if Civic Address is provided.)

Lot and Concession: used to indicate location within a subdivided township and consists of a lot number and a concession number.

Part and Reference: used to indicate location within an un-subdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan.

Lot	Concession	Part	Reference Plan

Municipality/Unorganized Township	County/District	Province/State	Country	Postal Code
Chapple/Unorganized	Rainy River	Ontario	Canada	P0W 1E0

Section 2 - Written Summary Questionnaire

- Did your Facility make any Modification(s) during the last calendar year (i.e., Jan. 1st to Dec. 31st)?
☐ Yes ☒ No (If No, go to Question 4)
- Did the Modifications alter the air emissions or Point of Impingement concentrations of a Compound of Concern (COC) from your Facility?
☐ Yes ☐ No
- Did you implement any Modifications that alter the noise emissions from your Facility?
☐ Yes ☐ No
- Was the facility operated in accordance with the conditions of the Approval?
☒ Yes ☐ No
- Do the conditions of the Approval require submission of this Written Summary Form through the Ministry's website?
☒ Yes ☐ No
- The following supporting information has been attached as a single PDF file (file name):
 - A summary of each Modification that took place in the last calendar year if required by the conditions in the Approval.
 - A copy of any Acceptable Point of Impingement Concentration requests submitted to the Ministry and the Ministry responses received in this reporting year.

File Name

	Attach File(s)
	Remove File(s)

Declaration

I, the Highest Ranking Person of the Facility, hereby declare that, to the best of my knowledge, all of the information provided in this form is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the *Environmental Protection Act*.

"Highest Ranking Person" means the highest ranking person regularly present at the Facility who has management responsibilities relating to the Facility.

Name of Highest Ranking Person			Title
Garnet Cornell			Environment Manager
Date (yyyy/mm/dd)	Telephone Number	ext.	Email Address
2025/03/26	807 234-8200	8170	Garnet.Cornell@newgold.com
Name of Person Preparing the Written Summary			Title
Date (yyyy/mm/dd)	Telephone Number	ext.	Email Address

Save Form

Print Form

Submit

Clear Form



RAINY RIVER MINE

2024 ANNUAL AIR WORKS REPORT

PER AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL
#0412-A2LR4V Condition 4.3

VERSION 0.1

March 2025

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1.0 INTRODUCTION

The New Gold Inc., Rainy River Mine (RRM) is a gold mining and ore processing mine situated in the Township of Chapple. New Gold has been exploring the property since 2005. As of October 2017, is now operating an open pit and milling complex on the site, with future underground workings developed in 2020.

2.1 REGULATORY BACKGROUND

An Environmental Compliance Approval (ECA) Air #8567-9ZXG8U was issued by the Ontario Ministry of the Environment, Conservation and Parks (MECP) on September 1, 2015 related to the RRM site, inclusive of such aspects as: mining, processing tailings management and heating. This approval was subsequently amended and issued as Amended ECA #0412-A2LR4V on September 24, 2015. Notice No. 1 which amends this ECA was issued on July 18, 2022.

Condition 4.3 of this approval requires that:

Subject to Condition 4.3, the Company shall prepare and complete no later than March 31 of each year documentation that describes the activities undertaken at the Facility in the previous calendar year.

- a) a list of all Compounds of Concern for which a Maximum Concentration Level Assessment was submitted to the Director for review by the Air Standards Manager pursuant to Condition 3.1.2 or 3.1.3 of this Approval;*
- b) if the Company has modified the Facility and was not required to submit a Maximum Concentration Level Assessment with respect to a Compound of Concern under Condition 3.1.2 or 3.1.3, a list and concentration level of all such Compounds of Concern;*
- c) a review of any changes to Ministry Point of Impingement Limits that affect any Compounds of Concern emitted from the Facility; and*
- d) a table of the changes in the emission rate of any Compound of Concern and the resultant increase or decrease in the Point of Impingement concentration reported in the ESDM (Emission Summary and Dispersion Modelling) Report.*

This report has been prepared to meet these requirements.

Condition 5.1 of this approval requires preparation and submission of a Written Summary Form through the MECP website. A letter of declaration of site compliance with section 9 of the EPA, O.Reg.419/05 and the conditions of the ECA, plus a summary of modifications that took place in the previous calendar year (2023) which satisfies Condition 2.1 (a) and (b) are submitted with the written summary. These documents were submitted to the MECP on March 31, 2023.

3.0 COMPOUNDS OF CONCERN

There were no Compounds of Concern for which a Maximum Concentration Level Assessment was submitted to the Director for review by the Air Standards Manager pursuant to Condition 3.1.2 or 3.1.3 of this Approval during 2024.

4.0 FACILITY MODIFICATIONS

There were no modifications at the mine facility which resulted in changes to air and noise emissions in 2024. The Modification Log with no modifications is provided in Appendix A.

5.0 MINISTRY POINT OF IMPINGEMENT LIMITS

During 2024, there were no changes to MECP Point of Impingement Limits (POI) from what was assessed for 2023 modifications that do not affect Compounds of Concern emitted from the mine facility.

6.0 EMISSION RATE CHANGES

Since there were no modifications made in the 2024 calendar year, contaminant emissions and noise levels from modifications made in 2023, assessed against MECP criteria remain current.

The resultant changes in emission rates between 2022 and 2023 and points of impingement (POI) concentrations are provided in Table 1. Table 2 provides a comparison of contaminant emissions levels with MECP POI limits. All are below corresponding limits.

The Acoustic Assessment Summary Table is in Table 3.

7.0 CONCLUSION

This environmental compliance report was prepared by Trinity Consultants Inc. with the assistance of New Gold. The quality of information and conclusions are based on best practices and information available at the time of preparation.

8.1 REFERENCES

Trinity Consultants Inc. 2021. 217201.0040 New Gold RRM 2021 ESDM Report v0.3. April 2021. 574 pg.

Trinity Consultants Inc. 2022. 227201.0082 New Gold RRM 2022 ESDM Report. February 2023. 422 pg.

Trinity Consultants Inc. 2022. 217201.0040 - New Gold - AAR v0.1 (20210426). July 2022. 4 pg.

Trinity Consultants Inc. 2023 237201.0011 New Gold (RRM) AAR V1.0 Draft

Trinity Consultants Inc. 247201.0014 New Gold RRM ESDM Report DRAFT Report.pdf

Table 1: 2022 and 2023 Contaminant Comparison Table

Contaminant Name	CAS RN	2022 Total Facility Emission Rate (g/s)	2023 Total Facility Emission Rate (g/s) ²	2022 Maximum POI Concentration (µg/m ³)	2023 Maximum POI Concentration (µg/m ³) ²	Change in POI Concentration (%)
Aluminum	7429-90-5	3.51E-01	3.39E-01	1.994	2.17	8.90%
Ammonia	7664-41-7	7.54E-02	7.54E-02	0.141	0.14	0.41%
Arsenic and compounds	7440-38-2	7.01E-04	6.78E-04	0.004	0.00	8.90%
Barium - total water soluble	7440-39-3	1.62E-03	1.56E-03	0.009	0.01	8.90%
Beryllium and Beryllium Compounds	7440-41-7	1.01E-05	9.78E-06	0.000	0.00	8.90%
Cadmium and Cadmium Compounds	7440-43-9	9.11E-05	8.80E-05	0.001	0.00	8.90%
Calcium carbonate	471-34-1	2.62E-01	2.53E-01	1.488	1.62	8.90%
Carbon monoxide	630-08-0	1.87E+01	1.87E+01	1273.282	1554.42	22.08%
Cesium	7440-46-2	3.69E-05	3.57E-05	0.000	0.00	8.90%
Chromium compounds (metallic, divalent and trivalent forms)	7440-47-3	1.85E-03	1.78E-03	0.011	0.01	8.90%
Cobalt	7440-48-4	2.23E-04	2.15E-04	0.001	0.00	8.90%
Copper sulphate	7758-99-8	6.00E-03	6.00E-03	0.011	0.01	-3.12%
Gallium	7440-55-3	5.06E-05	4.89E-05	0.000	0.00	8.90%
Hydrogen cyanide	74-90-8	2.20E-01	2.20E-01	0.788	0.79	0.47%
Iron (metallic)	7439-89-6	4.21E-01	4.07E-01	2.397	2.61	8.90%
Lanthanum	7439-91-0	2.33E-04	2.25E-04	0.001	0.00	8.90%
Lead and Lead Compounds	7439-92-1	1.10E-03	1.06E-03	0.006	0.01	8.90%
Lead and Lead Compounds	7439-92-1	1.10E-03	1.06E-03	0.001	0.00	0.57%
Magnesium	7439-95-4	1.44E-01	1.39E-01	0.817	0.89	8.90%
Manganese and manganese compounds	7439-96-5	8.14E-03	7.43E-03	0.046	0.05	8.90%
Nickel and nickel compounds	7440-02-0	5.82E-04	5.62E-04	0.000	0.00	1.47%
Nitrogen oxides	10102-44-0	6.66E+00	3.11E+00	385.478	171.15	-55.60%
Nitrogen oxides	10102-44-0	3.39E+00	6.24E+00	11.936	6.18	-48.26%
Phosphorus	7723-14-0	4.05E-03	3.91E-03	0.023	0.03	8.90%
Potassium	7440-09-7	9.76E-02	9.44E-02	0.555	0.60	8.90%
Rhenium	7440-15-5	2.53E-05	2.44E-05	0.000	0.00	8.90%
Scandium	7440-20-2	9.11E-05	8.80E-05	0.001	0.00	8.90%
Silica (<10 µm diameter)	14808-60-7	1.33E-01	1.33E-01	0.562	0.69	23.36%
Sodium	7440-23-5	1.62E-02	1.56E-02	0.092	0.10	8.90%
Sulphur dioxide	7446-09-5	5.48E+00	1.98E+00	222.802	88.46	-60.30%
Sulphur dioxide	7446-09-5	4.93E+00	1.43E+00	17.716	0.24	-98.63%
Suspended particulate matter	N/A-TSP	1.35E+01	1.35E+01	79.283	91.58	15.51%
Thorium	7440-29-1	1.01E-04	9.78E-05	0.001	0.00	8.90%
Titanium	7440-32-6	2.12E-02	2.05E-02	0.121	0.13	8.90%
Uranium and Uranium Compounds - U in PM10	7440-61-1	1.01E-04	9.78E-05	0.000	0.00	1.47%
Vanadium	7440-62-2	8.09E-04	7.82E-04	0.005	0.01	8.90%
Zinc	7440-66-6	1.29E-02	0.00E+00	0.073	0.08	8.90%
Zirconium	7440-67-7	1.29E-02	1.25E-02	0.073	0.08	8.90%

Table 2: Emission Summary Table

Contaminant Name	CAS RN	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Maximum POI Concentration (µg/m³)	Averaging Period (hours)	Ministry POI Limit (µg/m³)	Limiting Effect	Regulation Source	Percentage of Ministry POI Limit
Aluminum	7429-90-5	3.39E-01	AERMOD v.22112	2.17	24	12	Health	SL-JSL	18.10%
Ammonia	7664-41-7	7.54E-02	AERMOD v.22112	0.14	24	100	Health	Standard	0.14%
Arsenic and compounds	7440-38-2	6.78E-04	AERMOD v.22112	0.00	24	0.3	Health	Guideline	1.45%
Barium - total water soluble	7440-39-3	1.56E-03	AERMOD v.22112	0.01	24	10	Health	Guideline	0.10%
Beryllium and Beryllium Compounds	7440-41-7	9.78E-06	AERMOD v.22112	0.000063	24	0.01	Health	Standard	0.63%
Cadmium and Cadmium Compounds	7440-43-9	8.80E-05	AERMOD v.22112	0.000564	24	0.025	Health	Standard	2.26%
Calcium carbonate	471-34-1	2.53E-01	AERMOD v.22112	1.62	24	15	Health & Particulate	SL-JSL	10.80%
Carbon monoxide	630-08-0	1.87E+01	AERMOD v.22112	1554.42	0.5	6000	Health	Standard	25.91%
Cesium	7440-46-2	3.57E-05	AERMOD v.22112	0.00	24	0.000231	NA	Max GLC ¹	<MAX GLC
Chromium compounds (metallic, divalent and trivalent forms)	7440-47-3	1.78E-03	AERMOD v.22112	0.01	24	0.5	Health	Standard	2.29%
Cobalt	7440-48-4	2.15E-04	AERMOD v.22112	0.00	24	0.1	Health	Guideline	1.38%
Copper sulphate	7758-99-8	6.00E-03	AERMOD v.22112	0.01	24	0.5	Health	SL-JSL	2.10%
Gallium	7440-55-3	4.89E-05	AERMOD v.22112	0.00	24	0.000316	NA	Max GLC ¹	<MAX GLC
Hydrogen cyanide	74-90-8	2.20E-01	AERMOD v.22112	0.79	24	8	Health	Standard	9.90%
Iron (metallic)	7439-89-6	4.07E-01	AERMOD v.22112	2.61	24	4	Health & Soiling	Standard	65.26%
Lanthanum	7439-91-0	2.25E-04	AERMOD v.22112	0.00	24	0.00146	NA	Max GLC ¹	<MAX GLC
Lead and Lead Compounds	7439-92-1	1.06E-03	AERMOD v.22112	0.01	24	0.5	Health	Standard	1.36%
Lead and Lead Compounds	7439-92-1	1.06E-03	AERMOD v.22112	0.00	720	0.2	Health	Standard	0.61%
Magnesium	7439-95-4	1.39E-01	AERMOD v.22112	0.89	24	72	Health	SL-MD	1.24%
Manganese and manganese compounds	7439-96-5	7.43E-03	AERMOD v.22112	0.05	24	0.4	Health	Standard	12.61%
Nickel and nickel compounds	7440-02-0	5.62E-04	AERMOD v.22112	0.00021	8760	0.04	Health	Standard	0.52%
Nitrogen oxides	10102-44-0	3.11E+00	AERMOD v.22112	6.18	24	200	Health	Standard	3.09%
Nitrogen oxides	10102-44-0	6.24E+00	AERMOD v.22112	171.15	1	400	Health	Standard	42.79%
Phosphorus	7723-14-0	3.91E-03	AERMOD v.22112	0.03	24	0.5	Health	SL-MD	5.01%
Potassium	7440-09-7	9.44E-02	AERMOD v.22112	0.60	24	10	Health	SL-MD	6.05%
Rhenium	7440-15-5	2.44E-05	AERMOD v.22112	0.00	24	0.000158	NA	Max GLC ¹	<MAX GLC
Scandium	7440-20-2	8.80E-05	AERMOD v.22112	0.00	24	0.000569	NA	Max GLC ¹	<MAX GLC
Silica (<10 µm diameter)	14808-60-7	1.33E-01	AERMOD v.22112	0.69	24	5	Health	Guideline	13.87%
Sodium	7440-23-5	1.56E-02	AERMOD v.22112	0.10	24	0.101	NA	Max GLC ¹	<MAX GLC
Sulphur dioxide	7446-09-5	1.98E+00	AERMOD v.22112	88.46	1	100	Health & Vegetation	Standard	88.46%
Sulphur dioxide	7446-09-5	1.43E+00	AERMOD v.22112	0.24	8760	10	Health & Vegetation	Standard	2.43%
Suspended particulate matter	N/A-TSP	1.35E+01	AERMOD v.22112	91.58	24	120	Visibility	Standard	76.32%
Thorium	7440-29-1	9.78E-05	AERMOD v.22112	0.0006	24	0.000633	NA	Max GLC ¹	<MAX GLC
Titanium	7440-32-6	2.05E-02	AERMOD v.22112	0.13	24	120	Particulate	Standard	0.11%
Uranium and Uranium Compounds - U in PM10	7440-61-1	9.78E-05	AERMOD v.22112	0.00004	8760	0.03	Health	Standard	0.12%
Vanadium	7440-62-2	7.82E-04	AERMOD v.22112	0.01	24	2	Health	Standard	0.25%
Zinc	7440-66-6	0.00E+00	AERMOD v.22112	0.08	24	120	Particulate	Standard	0.07%
Zirconium	7440-67-7	1.25E-02	AERMOD v.22112	0.08	24	25	Health	SL-JSL	0.32%
¹ Note: Site specific Max GLC per 2021 submission to MECP									

Table 3: Acoustic Summary Table

Acoustic Assessment Summary Table - Overall Sound Levels - Normal Operations (Stationary Source)

Point of Reception ID	Description of Point of Reception	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit?	Daytime Performance Limit (dBA)	Evening Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit?
POR1	POR1	32	32	32	No	45	40	40	Yes
POR1a	POR1a	31	31	31	No	45	40	-	Yes
POR3	POR3	19	23	23	No	45	40	40	Yes
POR3a	POR3a	21	23	23	No	45	40	-	Yes
POR4	POR4	26	28	28	No	45	40	40	Yes
POR4a	POR4a	25	26	26	No	45	40	-	Yes
POR6	POR6	28	30	30	No	45	40	40	Yes
POR6a	POR6a	27	29	29	No	45	40	-	Yes
POR7	POR7	22	25	25	No	45	40	40	Yes
POR7a	POR7a	20	24	24	No	45	40	-	Yes
POR8	POR8	28	29	29	No	45	40	40	Yes
POR8a	POR8a	26	28	28	No	45	40	-	Yes
POR9	POR9	28	30	30	No	45	40	40	Yes
POR9a	POR9a	26	28	28	No	45	40	-	Yes
POR10	POR10	33	33	33	No	45	40	40	Yes
POR10a	POR10a	32	32	32	No	45	40	-	Yes
POR11	POR11	36	35	35	No	45	40	40	Yes
POR11a	POR11a	34	34	34	No	45	40	-	Yes
POR12	POR12	37	38	38	No	45	40	40	Yes
POR12a	POR12a	36	36	36	No	45	40	-	Yes
POR14	POR14	39	39	39	No	45	40	40	Yes
POR14a	POR14a	37	37	37	No	45	40	-	Yes
POR15	POR15	37	35	35	No	45	40	40	Yes
POR15a	POR15a	34	33	33	No	45	40	-	Yes
POR16	POR16	37	36	36	No	45	40	40	Yes
POR16a	POR16a	35	33	33	No	45	40	-	Yes
POR17	POR17	40	40	40	No	45	40	40	Yes
POR17a	POR17a	39	38	38	No	45	40	-	Yes
POR19	POR19	0	0	0	No	45	40	40	Yes
POR20	POR20	42	40	40	No	45	40	40	Yes
POR21	POR21	36	37	37	No	45	40	40	Yes
POR22	POR22	36	36	36	No	45	40	40	Yes
POR23	POR23	41	39	39	No	45	40	40	Yes
POR24	POR24	42	40	40	No	45	40	40	Yes
POR25	POR25	42	40	40	No	45	40	40	Yes

Acoustic Assessment Summary Table - Overall Sound Levels - Emergency Sources

Point of Reception ID	Description of Point of Reception	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit?	Daytime Performance Limit (dBA)	Evening Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit?
POR1	POR1	39	-	-	No	50	45	45	Yes
POR1a	POR1a	38	-	-	No	50	45	-	Yes
POR3	POR3	43	-	-	No	50	45	45	Yes
POR3a	POR3a	42	-	-	No	50	45	-	Yes
POR4	POR4	43	-	-	No	50	45	45	Yes
POR4a	POR4a	42	-	-	No	50	45	-	Yes
POR6	POR6	43	-	-	No	50	45	45	Yes
POR6a	POR6a	41	-	-	No	50	45	-	Yes
POR7	POR7	0	-	-	No	50	45	45	Yes
POR7a	POR7a	0	-	-	No	50	45	-	Yes
POR8	POR8	0	-	-	No	50	45	45	Yes
POR8a	POR8a	0	-	-	No	50	45	-	Yes
POR9	POR9	0	-	-	No	50	45	45	Yes
POR9a	POR9a	0	-	-	No	50	45	-	Yes
POR10	POR10	40	-	-	No	50	45	45	Yes
POR10a	POR10a	39	-	-	No	50	45	-	Yes
POR11	POR11	44	-	-	No	50	45	45	Yes
POR11a	POR11a	42	-	-	No	50	45	-	Yes
POR12	POR12	45	-	-	No	50	45	45	Yes
POR12a	POR12a	44	-	-	No	50	45	-	Yes
POR14	POR14	45	-	-	No	50	45	45	Yes
POR14a	POR14a	44	-	-	No	50	45	-	Yes
POR15	POR15	0	-	-	No	50	45	45	Yes
POR15a	POR15a	0	-	-	No	50	45	-	Yes
POR16	POR16	0	-	-	No	50	45	45	Yes
POR16a	POR16a	0	-	-	No	50	45	-	Yes
POR17	POR17	0	-	-	No	50	45	45	Yes
POR17a	POR17a	0	-	-	No	50	45	-	Yes
POR19	POR19	0	-	-	No	50	45	45	Yes
POR20	POR20	43	-	-	No	50	45	45	Yes
POR21	POR21	47	-	-	No	50	45	45	Yes
POR22	POR22	44	-	-	No	50	45	45	Yes
POR23	POR23	45	-	-	No	50	45	45	Yes
POR24	POR24	43	-	-	No	50	45	45	Yes
POR25	POR25	45	-	-	No	50	45	45	Yes

Appendix A
ESDM Modification Log

New Gold - Rainy River Mine

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 0412-A2LR4V Issue Date: September 24, 2015

ESDM Modifications Log

Modification	Date Changed	Description of Change	Emission Summary and Dispersion Modelling Report/Acoustic Assessment Report Changes
N/A	N/A	No modifications were made in the 2024 calendar year.	No changes to emissions or POI concentrations



**NEW GOLD INC.
RAINY RIVER MINE**

**AMBIENT AIR QUALITY MONITORING PROGRAM
FIRST QUARTER 2024 REPORT**

MAY 2024

ACRONYMS AND ABBREVIATIONS

µg/m ³	Microgram per Cubic Metre
AAQC	Ambient Air Quality Criteria
AAQO	Alberta Ambient Air Quality Objectives
ACFM	Cubic Feet Per Minute at Actual Conditions
AEP	Alberta Environment and Parks
ASTM	American Society for Testing and Materials
BCMOE	British Columbia Ministry of the Environment
CAAQS	Canadian Ambient Air Quality Standards
CFM	Cubic Foot Per Minute
Hi-Vol	High Volume Sampler
ICP/AES	Inductively Coupled Plasma / Atomic Emission Spectroscopy
ICP/MS	Inductively Coupled Plasma / Mass Spectrometry
LPM	Litres Per Minute
MECP	Ministry of the Environment, Conservation and Parks
NIST	National Institute of Standards and Technology
NO ₂	Nitrogen Dioxide
PM _{2.5}	Particulate Matter less than 2.5 microns (µm) in diameter
POI	Point of Impingement
SO ₂	Sulphur Dioxide
TSP	Total Suspended Particulate
U.S. EPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator

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Section 1. INTRODUCTION

The following is a summary of the First Quarter 2024 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
 - Number of Valid Samples and Percent Valid Data
 - Arithmetic and Geometric Means
 - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM_{2.5});
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO₂) and sulphur dioxide (SO₂).

Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

Table 2-1. Ambient Air Monitoring Stations

Station	UTM Co-ordinates			Parameters Monitored
	Easting (m)	Northing (m)	Zone	
Tait Road (Southwest Station)	426 072	5 406 996	15	TSP, Metals, PM _{2.5} , Dustfall, NO ₂ , SO ₂
Gallinger Road (Northeast Station)	431 133	5 410 534	15	TSP, Metals, PM _{2.5} , Dustfall, NO ₂ , SO ₂
Northwest Station (TMA)	419 797	5 413 042	15	TSP, Metals, PM _{2.5} , Dustfall

2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.

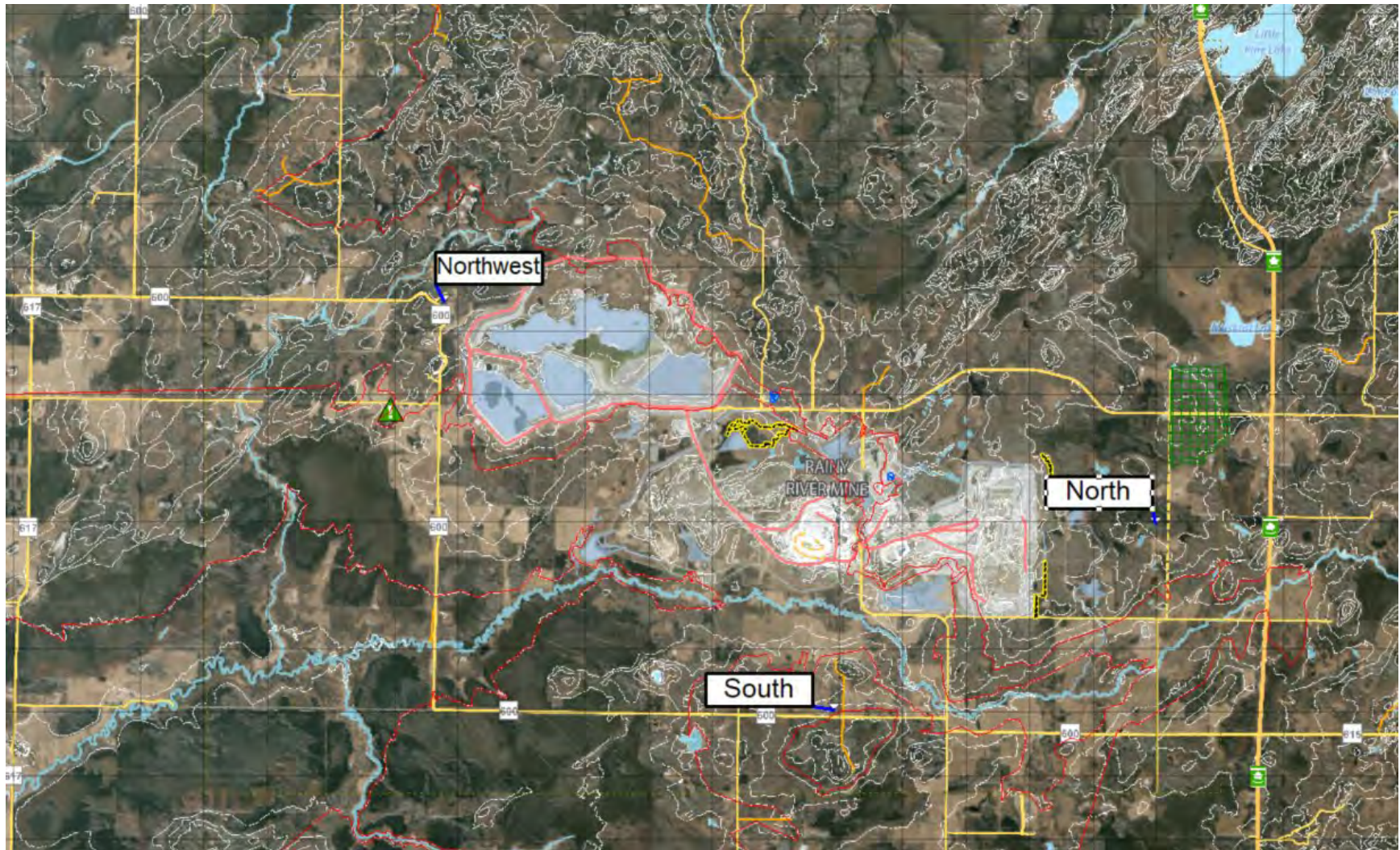


Figure 2-1. Ambient Air Monitoring Station Locations



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



Figure 2-4. Tait Road Station Detailed View



Figure 2-5. Northwest Station Siting

Section 3. ANALYTICAL METHODS

3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6th) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms (μg). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres (m^3). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

3.2 RESPIRABLE PARTICULATE MATTER ($\text{PM}_{2.5}$)

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$ concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring $\text{PM}_{2.5}$ in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of $\text{PM}_{2.5}$ on the (μg). Based on a valid 24-hour sample volume Teflon filter is 15 micrograms ranging between 21.6 and 26.4 m^3 , the MDL for $\text{PM}_{2.5}$ ranges between 0.9 and 16.7 $\mu\text{g}/\text{m}^3$.

Total sample volume is recorded mechanically by the PQ200 Samplers.

3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimetre (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ($\text{g/m}^2/30 \text{ days}$).

3.4 PASSIVE SAMPLING FOR SO_2 AND NO_2

Sulphur dioxide (SO_2) and nitrogen dioxide (NO_2) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of NO_2 or SO_2 , sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both SO_2 and NO_2 , the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of SO_2 or NO_2 obtained from passive sampling, this data is used solely for screening purposes.

For NO₂, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m³) converted to an equivalent 30-day (720-hour) average (78 µg/m³) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO₂, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m³ (Alberta Environment and Parks, 2019).

Section 4. MONITORING METHODS

4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM_{2.5}. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m³ in a 24-hour period.

For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly and are only calibrated if they don't pass the verification using an electronic BGI Flow Calibrator. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m³ in a 24-hour period.

Table 4-1 below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly.

Table 4-1. Sampler Calibration Dates

Station	Hi-Vol Sampler Calibration Date	PQ200 Sampler Calibration Date
Tait Road (South Station)	2024-02-03	N/A
Gallinger Road (North Station)	2024-02-01	2024-02-01
Northwest Station (TMA)	2024-02-01	2024-01-30

4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algaecide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

Section 5. SAMPLING ISSUES

5.1 PERFORMANCE AND SITE AUDITS

There was no MECP Audit in Q1.

5.2 EQUIPMENT AND SAMPLING ISSUES

There were three (3) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

Table 5-1. Q1 Invalidated Samples

Sample Date	Station	Contaminant	Reasoning
January 1, 2024	Northwest	PM _{2.5}	No Sample run, under maintenance
January 31, 2024	North	PM _{2.5}	Sample volume was below the lower volume limit
March 7, 2024	South	PM _{2.5}	No Sample volume was recorded
March 13, 2024	North	PM _{2.5}	Sample volume was below the lower volume limit

Section 6. SAMPLING RESULTS

Sampling results for Q1 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM_{2.5}, **Section 6.3** and **Appendices A-2** and **A-3** for total dust fall, and **Section 6.4** and **Appendix A-4** for passive SO₂ and NO₂.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q1 are provided in **Appendix C**.

For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q1 presented sixteen (16) possible sampling days between January 1, 2024, and March 31, 2024, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM_{2.5} are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO₂ and NO₂ are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

6.1 TSP AND METALS

In this quarter, the Tait Road Station, Gallinger Road Station and the Northwest Station collected sixteen (16) valid samples (100% valid data).

For this quarter, the arithmetic mean of TSP concentration was 39.92 µg/m³ at the Tait Road Station, 19.82 µg/m³ at the Gallinger Road Station, and 18.36 µg/m³ at the Northwest Station. Geometric means for the three stations were 25.01 µg/m³, 12.90 µg/m³, and 11.05 µg/m³, respectively.

The maximum 24-hour concentration for TSP was 116.10 µg/m³ at the Tait Road Station on February 18th, 61.26 µg/m³ at the Gallinger Road Station on March 1st, and 77.59 µg/m³ at the Northwest Station on March 7th, 2024.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there were no exceedances observed.

Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

Table 6-1. TSP Summary Statistics. Concentrations presented in µg/m³.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	16	16	16
% Valid Data	100%	100%	100%
Arithmetic Mean	39.92	19.82	18.36
Geometric Mean	25.01	12.90	11.05
24-Hour Maximum	116.10	61.26	77.59
24-Hour Minimum	5.50	1.55	3.33
January Maximum	99.05	52.83	9.44
February Maximum	116.10	28.65	18.65
March Maximum	108.03	61.26	77.59
90 th Percentile	103.54	43.34	50.93
95 th Percentile	110.04	54.94	62.30
TSP AAQC	120	120	120
Samples > TSP AAQC	0	0	0

	Tait Road Station	Gallinger Road Station	Northwest Station
Samples > Metal AAQC	0	0	0

Table 6-2. Maximum Concentrations of Metals. Concentrations presented in $\mu\text{g}/\text{m}^3$.

Metal	24-Hour AAQC	Tait Road Station		Gallinger Road Station		Northwest Station	
		Maximum Concentration	Fraction of AAQC	Maximum Concentration	Fraction of AAQC	Maximum Concentration	Fraction of AAQC
As	0.3	3.40E-03	1.13%	3.67E-03	1.22%	4.83E-03	1.61%
Cd	0.025	6.68E-04	2.67%	6.63E-04	2.65%	6.48E-04	2.59%
Cr	0.5	8.98E-03	1.80%	5.53E-03	1.11%	3.98E-03	0.80%
Co	0.1	2.93E-03	2.93%	6.63E-04	0.66%	6.48E-04	0.65%
Cu	50	2.05E-01	0.41%	1.58E-01	0.32%	2.59E-01	0.52%
Fe	4	5.20E+00	130.00%	2.13E+00	53.14%	1.70E+00	42.51%
Pb	0.5	6.47E-03	1.29%	1.31E-02	2.62%	1.15E-02	2.29%
Mn	0.4	1.22E-01	30.55%	6.02E-02	15.05%	7.04E-02	17.61%
Ni	0.2	7.27E-03	3.64%	2.76E-03	1.38%	3.82E-03	1.91%
Se	10	3.34E-03	0.03%	3.32E-03	0.03%	3.24E-03	0.03%
V	2	9.29E-03	0.46%	3.87E-03	0.19%	1.62E-03	0.08%
Zn	120	5.34E-02	0.04%	3.33E-02	0.03%	8.53E-02	0.07%

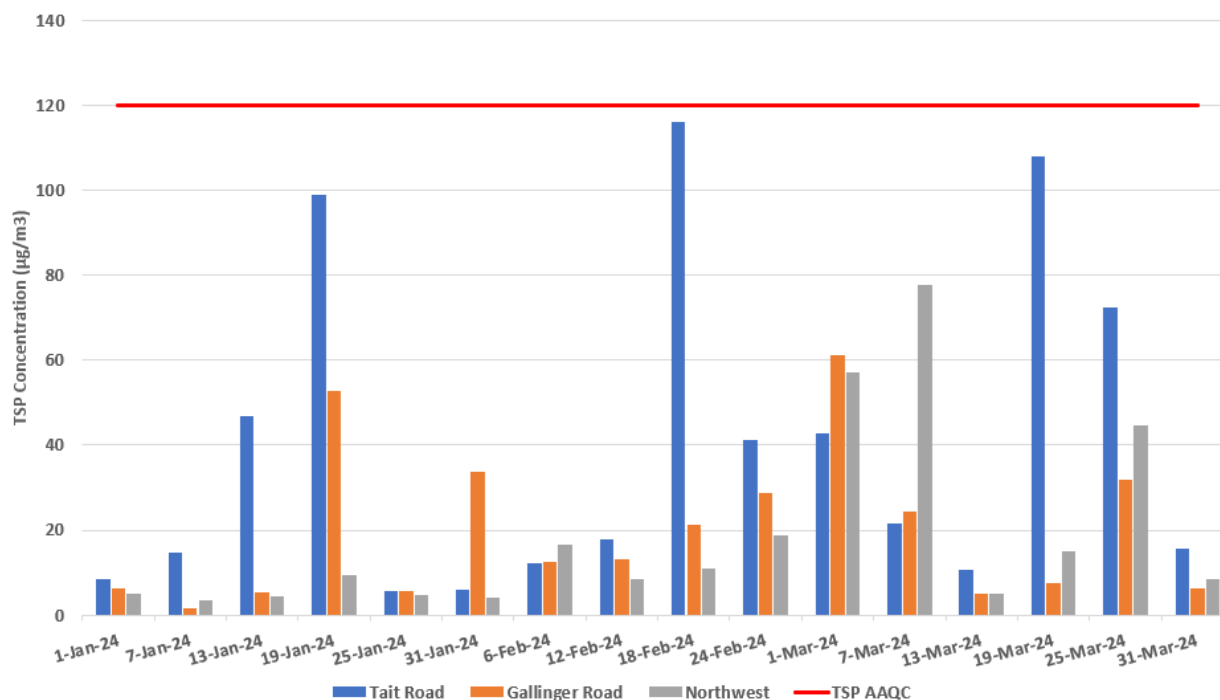


Figure 6-1. TSP Sampling Results

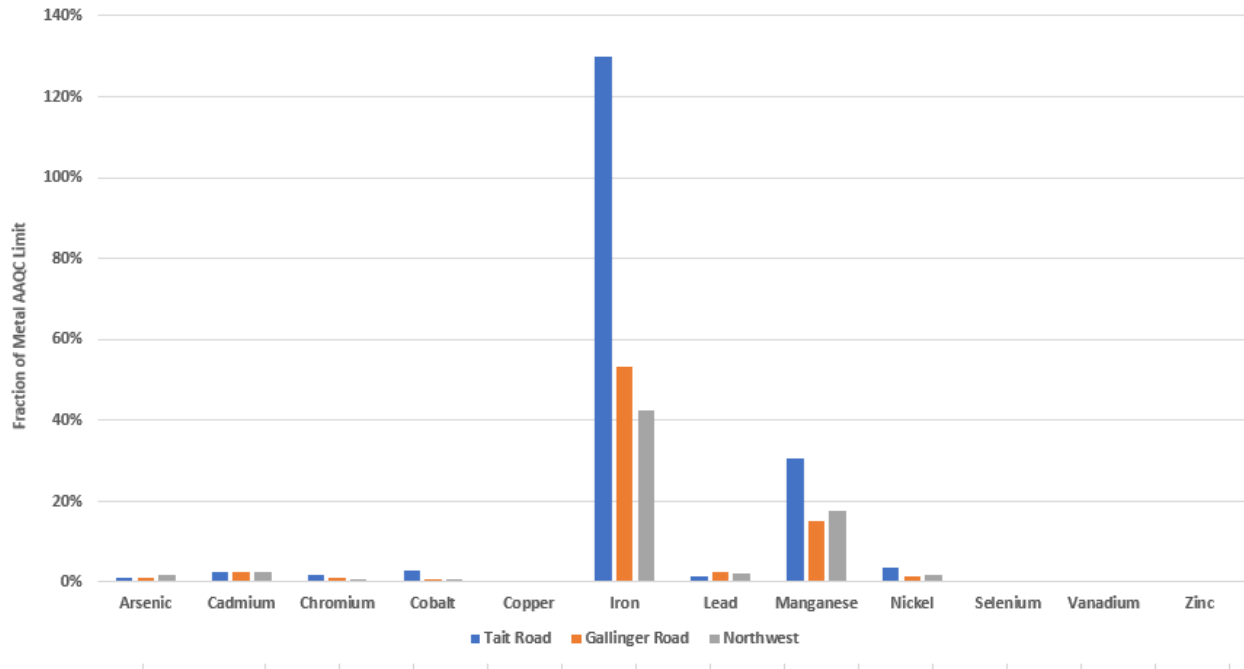


Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC

6.2 PM_{2.5}

In this quarter, the Northwest Station and the Tait Road Station collected fifteen (15) valid samples, which represents 94% valid data. Gallinger Road Station collected fourteen (14) valid samples which represent 88% valid data.

For this quarter, the arithmetic mean for the PM_{2.5} concentrations were 3.35 µg/m³, 2.99 µg/m³, and 3.26 µg/m³ for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM_{2.5} were 7.82 µg/m³ at the Tait Road Station on Jan 19, 7.22 µg/m³ at the Gallinger Road Station on March 13th, and 6.20 µg/m³ at the Northwest Station on February 6th, 2024.

Laboratory data is provided as the mass of PM_{2.5} on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM_{2.5} in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was no exceedance for PM_{2.5}.

Data is summarized for PM_{2.5} in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

Table 6-3. PM_{2.5} Summary Statistics. Concentrations presented in µg/m³.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	15	14	15
% Valid Data	94%	88%	94%
Arithmetic Mean	3.35	2.99	3.26
Geometric Mean	2.81	2.28	2.74
24-Hour Maximum	7.82	7.22	6.20
24-Hour Minimum	0.79	0.62	0.83
January Maximum	7.82	5.08	5.20
February Maximum	5.58	5.41	6.20
March Maximum	5.29	7.22	5.74
90 th Percentile	5.46	5.41	5.52
95 th Percentile	6.25	5.86	5.88
PM _{2.5} AAQC	27	27	27
Samples > PM _{2.5} AAQC	0	0	0
MDL (µg)	0	0	0
Samples < MDL	0	0	0

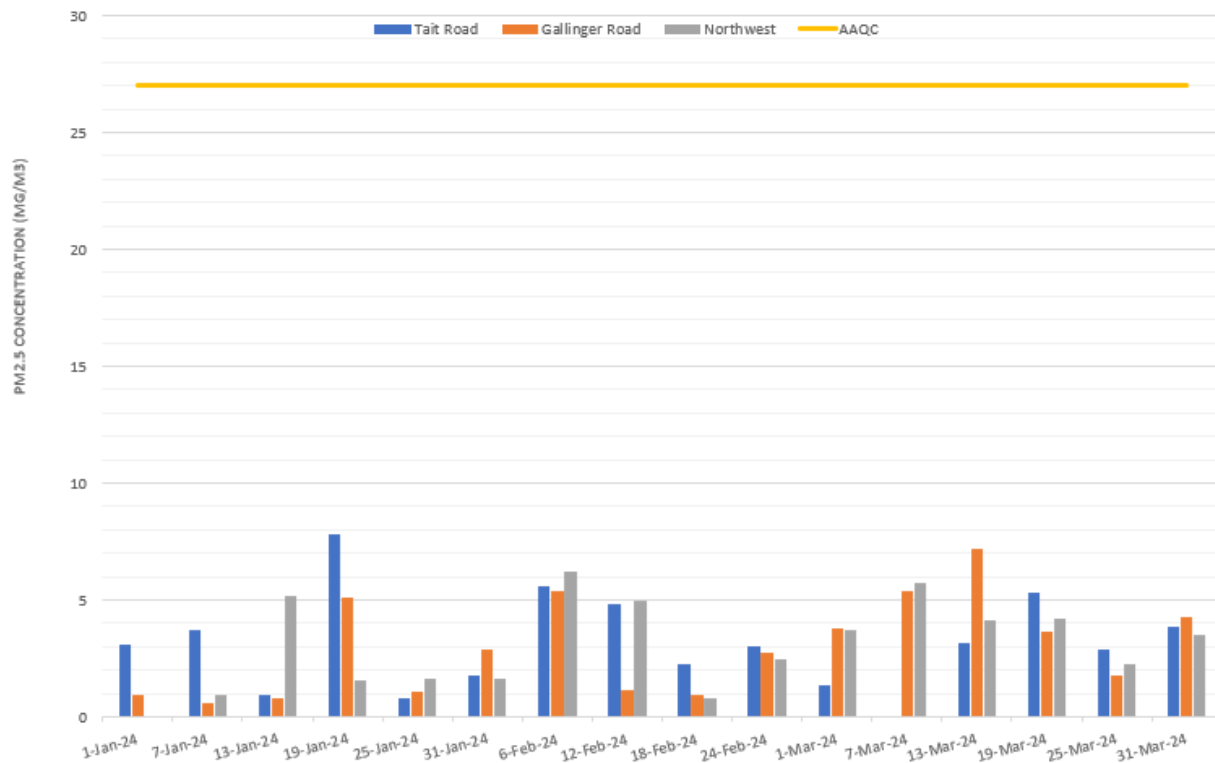


Figure 6-3. PM_{2.5} Sampling Results

6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration} \left(\frac{g}{m^2 \cdot 30 \text{ days}} \right) = \text{Lab Concentration} \left(\frac{mg}{dm^2 \cdot \text{day}} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed

dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there were no exceedances for the total dustfall 30-day Ontario AAQC ($7 \text{ g/m}^2/30 \text{ days}$).

Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

Table 6-4. Total Dustfall Summary Statistics.
Concentrations presented in $\text{g/m}^2/30 \text{ days}$.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	3	3	3
% Valid Data	100%	100%	100%
Arithmetic Mean	1.44	2.64	1.52
Monthly Maximum	1.65	4.38	3.9
Dustfall AAQC	7	7	7
Samples > Dustfall AAQC	0	0	0
Samples < MDL	0	0	0

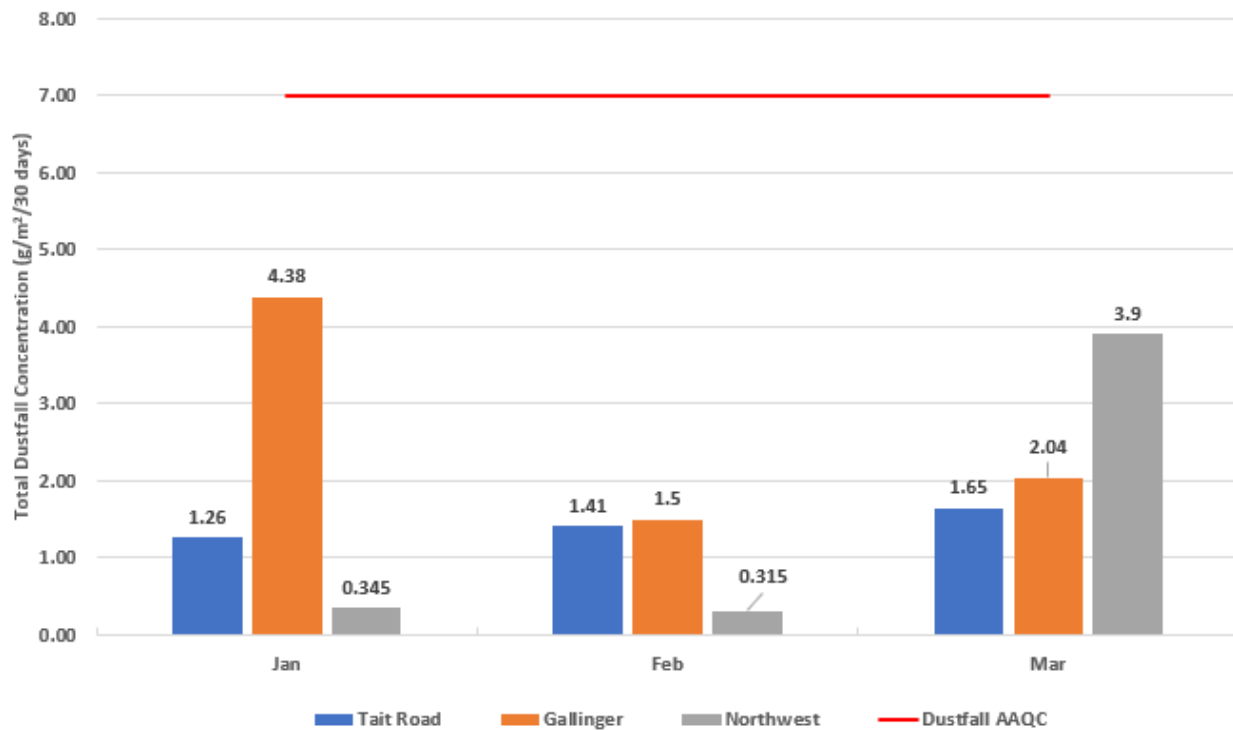


Figure 6-3. Total Dustfall Sampling Results at POI Stations

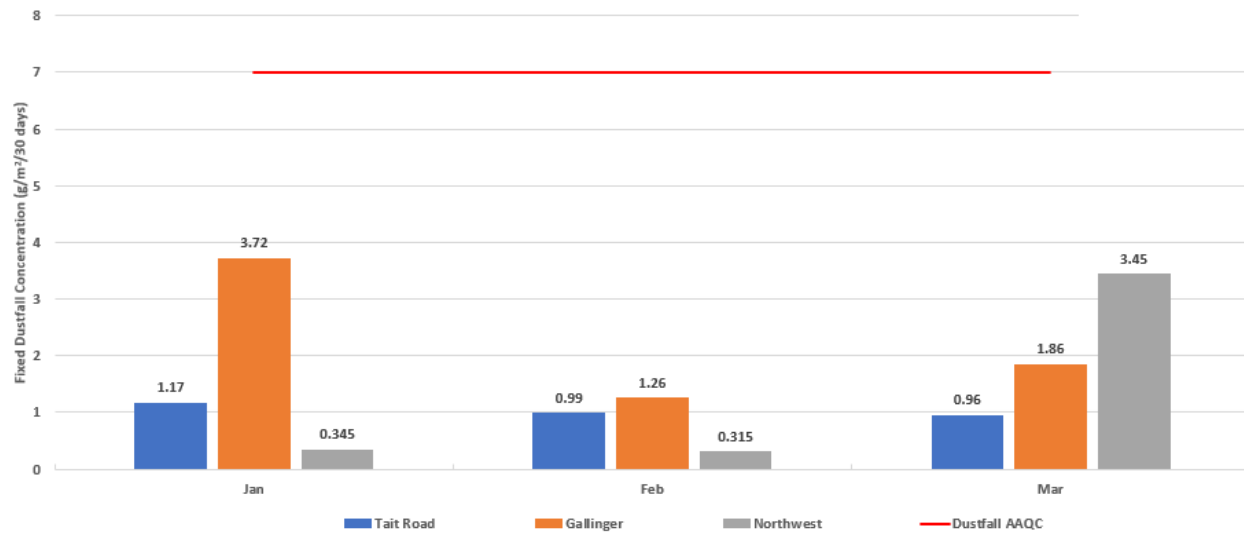


Figure 6-4. Fixed Dustfall Sampling Results at POI Stations

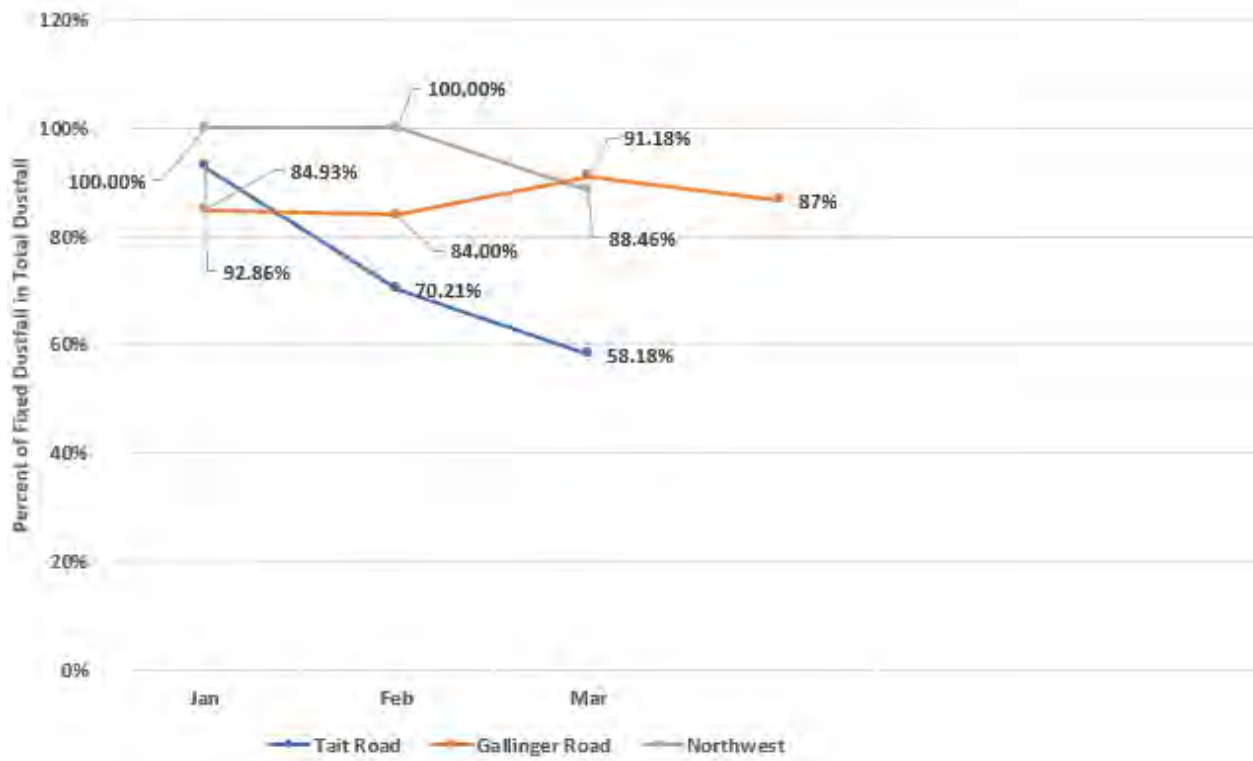


Figure 6-5. Percent of Fixed Dustfall in Total Dustfall

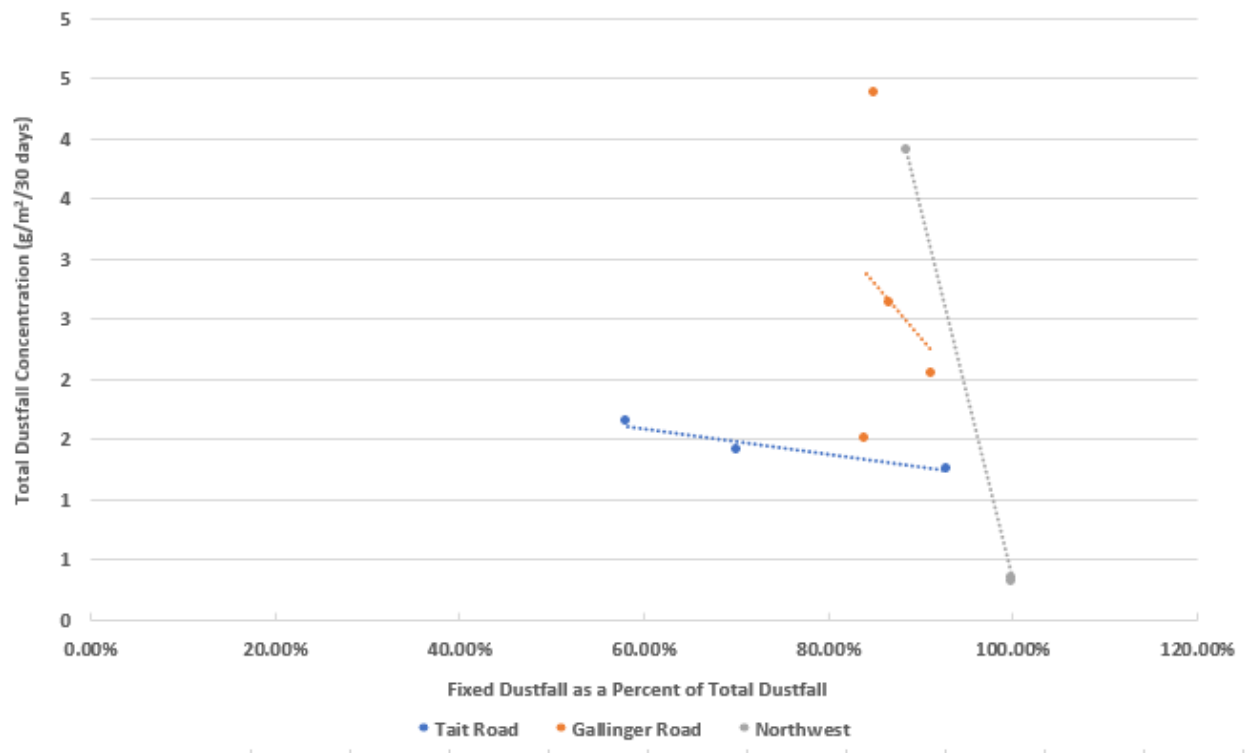


Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration

6.4 PASSIVE SO₂ AND NO₂

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO₂ or NO₂ for a 30-day averaging period. Instead, the 30-day measured average SO₂ or NO₂ concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO₂, the monthly results are compared against Ontario's 24-hour NO₂ AAQC (200 µg/m³) converted to an equivalent 30-day average (78 µg/m³) using the methodology outlined in Table 7-1 of the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (2019).

For SO₂, the monthly results are compared against Alberta's 30-day SO₂ Ambient Air Quality Objective (AAQO) of 30 µg/m³ (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO₂ concentration was 0.65 µg/m³ at the Tait Road and 0.52 µg/m³ at the Gallinger Road Stations. The arithmetic mean NO₂ concentrations were 1.63 µg/m³ and 1.50 µg/m³ at the Tait Road and Gallinger Road Stations, respectively.

The maximum monthly concentrations of SO₂ were 1.31 µg/m³ for the Tait Road in month of February and 0.79 µg/m³ for the Gallinger Road stations in month of February. The maximum monthly concentration of NO₂ was 2.26 µg/m³ at the Tait Road and 2.63 µg/m³ at the Gallinger Road Stations in the month of January.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \text{Lab Concentration (ppbv)} \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

In this quarter, there were no samples that exceeded the converted 24-hour NO₂ Ontario AAQC (78 µg/m³), and no samples that exceeded the 30-day Alberta SO₂ AAQO (30 µg/m³).

Data is summarized for SO₂ and NO₂ in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

**Table 6-5: Summary Statistics for SO₂ and NO₂.
Concentrations presented in µg/m³.**

	Tait Road Station		Gallinger Road Station	
	SO ₂	NO ₂	SO ₂	NO ₂
Number of Valid Samples	3	3	3	3
% Valid Data	100%	100%	100%	100%
Arithmetic Mean	0.65	1.63	0.52	1.50
Monthly Maximum	1.31	2.26	0.79	2.63
Limit	30	78	30	78
Samples > Limit	0	0	0	0
MDL	0.26	0.19	0.26	0.19
Samples < MDL	1	0	2	0

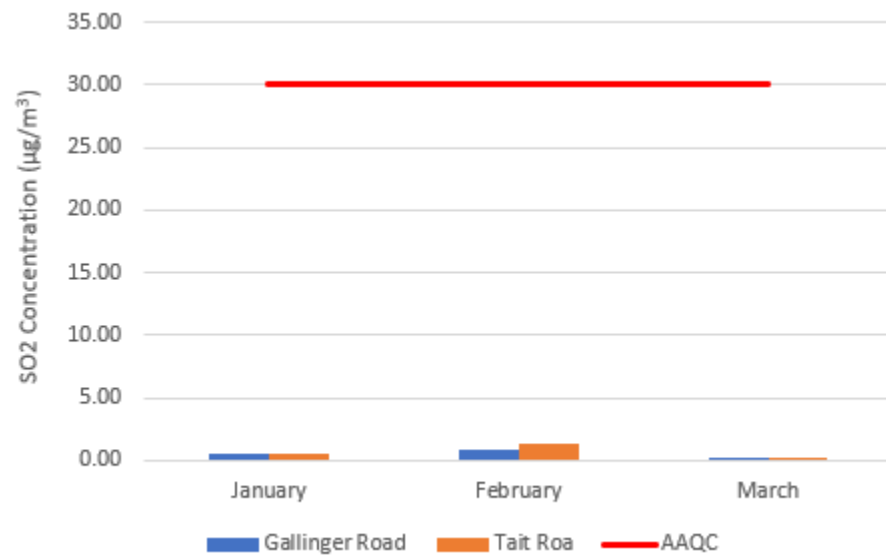


Figure 6-5. SO₂ Monitoring Results

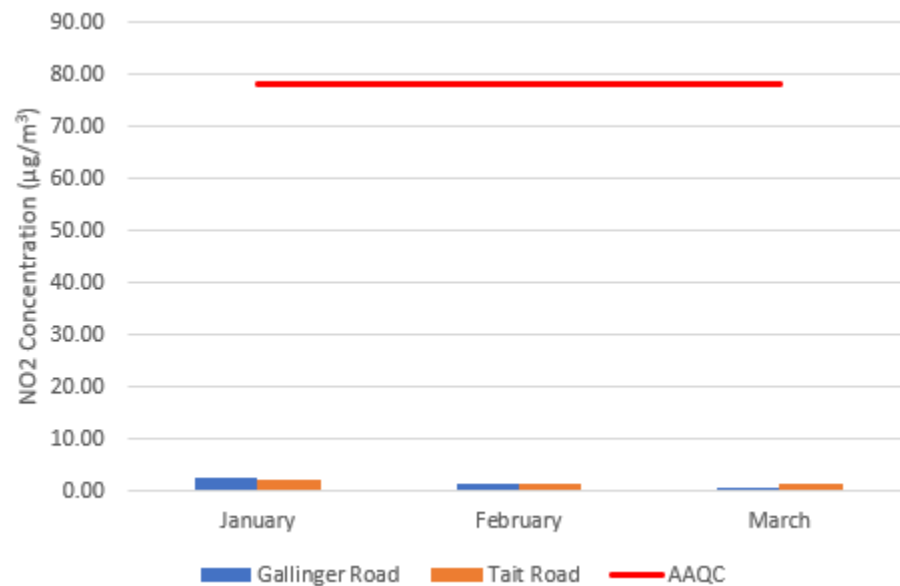


Figure 6-8. NO₂ Monitoring Results

Section 7. MITIGATION MEASURES

No mitigation measures have been implemented at this time.

Section 8. CONCLUSION

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the first quarter of 2024 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECP Program Approval Letter.

Samples were taken every sixth (6th) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM_{2.5}). Samples were taken monthly for total dustfall, sulphur dioxide (SO₂), and nitrogen dioxide (NO₂).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

There was one (1) exceedance for Metals at the Tait Road Station on February 18, 2024

Section 9. REFERENCES

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Section 10. CLOSING

The *Rainy River Mine Ambient Air Quality Monitoring Program First Quarter 2024 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:



Garnet Cornell

Environment Manager

APPENDIX A: SAMPLING RESULTS

Appendix A-1 TSP, Metals, and PM_{2.5} Sampling Results

Appendix A-2 Total Dustfall Sampling Results

Appendix A-3 SO₂ and NO₂ Passive Sampling Results

APPENDIX A-1: TSP, METALS, AND PM_{2.5} SAMPLING RESULTS

Tait Road Station Monitoring Results														
(Concentrations expressed in µg/m ³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
1-Jan-24	8.57	<u>8.69E-04</u>	<u>5.79E-04</u>	<u>1.45E-03</u>	<u>5.79E-04</u>	4.53E-02	2.79E-01	<u>8.69E-04</u>	7.01E-03	<u>8.69E-04</u>	<u>2.90E-03</u>	<u>1.45E-03</u>	5.27E-03	3.12
7-Jan-24	14.71	<u>9.35E-04</u>	<u>6.23E-04</u>	<u>1.56E-03</u>	<u>6.23E-04</u>	2.05E-01	5.47E-01	<u>9.35E-04</u>	1.39E-02	<u>9.35E-04</u>	<u>3.12E-03</u>	<u>1.56E-03</u>	9.85E-03	3.70
13-Jan-24	46.76	2.80E-03	<u>5.61E-04</u>	<u>1.40E-03</u>	<u>5.61E-04</u>	9.25E-02	7.34E-01	2.92E-03	3.48E-02	<u>8.41E-04</u>	<u>2.80E-03</u>	<u>1.40E-03</u>	2.85E-02	0.96
19-Jan-24	99.05	2.35E-03	<u>5.60E-04</u>	6.55E-03	1.40E-03	1.29E-01	2.92E+00	6.16E-03	8.73E-02	6.16E-03	<u>2.80E-03</u>	4.81E-03	5.34E-02	7.82
25-Jan-24	5.50	<u>8.51E-04</u>	<u>5.67E-04</u>	<u>1.42E-03</u>	<u>5.67E-04</u>	1.32E-01	6.81E-02	<u>8.51E-04</u>	2.10E-03	<u>8.51E-04</u>	<u>2.84E-03</u>	<u>1.42E-03</u>	4.60E-03	0.79
31-Jan-24	5.82	<u>9.09E-04</u>	<u>6.06E-04</u>	<u>1.51E-03</u>	<u>6.06E-04</u>	8.24E-02	1.07E-01	<u>9.09E-04</u>	3.82E-03	<u>9.09E-04</u>	<u>3.03E-03</u>	<u>1.51E-03</u>	9.27E-03	1.79
6-Feb-24	12.05	<u>9.93E-04</u>	<u>6.62E-04</u>	<u>1.66E-03</u>	<u>6.62E-04</u>	5.64E-02	1.15E-01	2.52E-03	3.31E-03	<u>9.93E-04</u>	<u>3.31E-03</u>	<u>1.66E-03</u>	1.44E-02	5.58
12-Feb-24	17.82	<u>9.12E-04</u>	<u>6.08E-04</u>	<u>1.52E-03</u>	<u>6.08E-04</u>	1.05E-01	2.58E-01	2.74E-03	1.03E-02	<u>9.12E-04</u>	<u>3.04E-03</u>	<u>1.52E-03</u>	1.33E-02	4.83
18-Feb-24	116.10	<u>9.17E-04</u>	<u>6.11E-04</u>	8.98E-03	2.93E-03	1.13E-01	5.20E+00	3.97E-03	1.22E-01	7.27E-03	<u>3.06E-03</u>	9.29E-03	3.08E-02	2.25
24-Feb-24	41.14	<u>9.12E-04</u>	<u>6.08E-04</u>	3.40E-03	<u>6.08E-04</u>	6.08E-02	1.92E+00	<u>9.12E-04</u>	4.38E-02	2.67E-03	<u>3.04E-03</u>	3.52E-03	1.31E-02	3.00
1-Mar-24	42.77	<u>9.18E-04</u>	<u>6.12E-04</u>	<u>1.53E-03</u>	<u>6.12E-04</u>	5.78E-02	1.33E+00	2.63E-03	4.88E-02	<u>9.18E-04</u>	<u>3.06E-03</u>	<u>1.53E-03</u>	1.82E-02	1.33
7-Mar-24	21.63	<u>1.00E-03</u>	<u>6.68E-04</u>	<u>1.67E-03</u>	<u>6.68E-04</u>	5.32E-02	4.84E-01	<u>1.00E-03</u>	1.40E-02	<u>1.00E-03</u>	<u>3.34E-03</u>	<u>1.67E-03</u>	9.15E-03	
13-Mar-24	10.68	<u>9.16E-04</u>	<u>6.10E-04</u>	<u>1.53E-03</u>	<u>6.10E-04</u>	7.14E-02	4.21E-01	<u>9.16E-04</u>	1.07E-02	<u>9.16E-04</u>	<u>3.05E-03</u>	<u>1.53E-03</u>	7.69E-03	3.16
19-Mar-24	108.03	3.40E-03	<u>6.67E-04</u>	6.13E-03	1.40E-03	9.94E-02	3.12E+00	<u>5.20E-03</u>	8.87E-02	5.60E-03	<u>3.33E-03</u>	5.13E-03	4.74E-02	5.29
25-Mar-24	72.30	2.12E-03	<u>5.88E-04</u>	5.23E-03	<u>5.88E-04</u>	3.68E-02	2.15E+00	6.47E-03	6.64E-02	3.82E-03	<u>2.94E-03</u>	<u>3.47E-03</u>	4.44E-02	2.87
31-Mar-24	15.79	<u>9.22E-04</u>	<u>6.14E-04</u>	<u>1.54E-03</u>	<u>6.14E-04</u>	1.00E-01	7.19E-01	<u>9.22E-04</u>	1.71E-02	<u>9.22E-04</u>	<u>3.07E-03</u>	<u>1.54E-03</u>	1.02E-02	3.83
Arithmetic Mean	39.92	1.36E-03	6.09E-04	2.94E-03	8.52E-04	9.00E-02	1.27E+00	2.49E-03	3.59E-02	2.22E-03	3.05E-03	2.69E-03	2.00E-02	3.35
Geometric Mean	25.01	1.20E-03	6.08E-04	2.31E-03	7.44E-04	8.17E-02	6.46E-01	1.86E-03	1.91E-02	1.54E-03	3.04E-03	2.19E-03	1.51E-02	2.81
Max Sample	116.10	3.40E-03	6.68E-04	8.98E-03	2.93E-03	2.05E-01	5.20E+00	6.47E-03	1.22E-01	7.27E-03	3.34E-03	9.29E-03	5.34E-02	7.82
Min Sample	5.50	8.51E-04	5.60E-04	1.40E-03	5.61E-04	3.68E-02	6.81E-02	8.51E-04	2.10E-03	8.41E-04	2.80E-03	1.40E-03	4.60E-03	0.79
AAQC Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > AAQC Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	1
No. Valid Samples	16	16	16	16	16	16	16	16	16	16	16	16	16	15
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	12	16	11	13	0	0	9	0	11	16	11	0	0
% of Valid Samples	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	94%

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

Gallinger Road Station Monitoring Results (North)														
(concentrations expressed in µg/m ³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
1-Jan-24	6.41	<u>9.34E-04</u>	<u>6.23E-04</u>	<u>1.56E-03</u>	<u>6.23E-04</u>	2.42E-02	1.23E-01	<u>9.34E-04</u>	3.49E-03	<u>9.34E-04</u>	<u>3.11E-03</u>	<u>1.56E-03</u>	5.11E-03	0.96
7-Jan-24	1.55	<u>8.96E-04</u>	<u>5.97E-04</u>	<u>1.49E-03</u>	<u>5.97E-04</u>	1.58E-01	4.48E-02	<u>8.96E-04</u>	1.13E-03	<u>8.96E-04</u>	<u>2.99E-03</u>	<u>1.49E-03</u>	4.78E-03	0.62
13-Jan-24	5.25	<u>8.65E-04</u>	<u>5.77E-04</u>	<u>1.44E-03</u>	<u>5.77E-04</u>	6.86E-02	8.53E-02	<u>8.65E-04</u>	2.65E-03	<u>8.65E-04</u>	<u>2.88E-03</u>	<u>1.44E-03</u>	3.98E-03	0.79
19-Jan-24	52.83	<u>9.24E-04</u>	<u>6.16E-04</u>	<u>1.54E-03</u>	<u>6.16E-04</u>	4.19E-02	5.79E-01	1.31E-02	3.55E-02	<u>9.24E-04</u>	<u>3.08E-03</u>	<u>1.54E-03</u>	3.33E-02	5.08
25-Jan-24	5.70	<u>9.95E-04</u>	<u>6.63E-04</u>	<u>1.66E-03</u>	<u>6.63E-04</u>	5.61E-02	8.42E-02	<u>9.95E-04</u>	2.98E-03	<u>9.95E-04</u>	<u>3.32E-03</u>	<u>1.66E-03</u>	5.57E-03	1.08
31-Jan-24	33.85	3.67E-03	<u>6.56E-04</u>	<u>1.64E-03</u>	<u>6.56E-04</u>	5.64E-02	2.13E+00	2.69E-03	5.94E-02	2.76E-03	<u>3.28E-03</u>	3.87E-03	2.77E-02	

6-Feb-24	12.65	<u>9.17E-04</u>	<u>6.11E-04</u>	<u>1.53E-03</u>	<u>6.11E-04</u>	1.40E-01	1.38E-01	2.87E-03	5.62E-03	<u>9.17E-04</u>	<u>3.06E-03</u>	<u>1.53E-03</u>	1.67E-02	5.41
12-Feb-24	13.27	<u>9.26E-04</u>	<u>6.17E-04</u>	<u>1.54E-03</u>	<u>6.17E-04</u>	1.51E-01	1.23E-01	2.53E-03	7.35E-03	<u>9.26E-04</u>	<u>3.09E-03</u>	<u>1.54E-03</u>	1.19E-02	1.17
18-Feb-24	21.12	<u>8.98E-04</u>	<u>5.98E-04</u>	<u>1.50E-03</u>	<u>5.98E-04</u>	1.41E-01	4.63E-01	<u>8.98E-04</u>	1.50E-02	<u>8.98E-04</u>	<u>2.99E-03</u>	<u>1.50E-03</u>	1.16E-02	0.96
24-Feb-24	28.65	<u>9.18E-04</u>	<u>6.12E-04</u>	<u>1.53E-03</u>	<u>6.12E-04</u>	7.22E-02	6.18E-01	1.96E-03	2.20E-02	<u>9.18E-04</u>	<u>3.06E-03</u>	<u>1.53E-03</u>	1.68E-02	2.75
1-Mar-24	61.26	<u>9.33E-04</u>	<u>6.22E-04</u>	<u>5.53E-03</u>	<u>6.22E-04</u>	7.46E-02	1.95E+00	2.55E-03	6.02E-02	<u>2.49E-03</u>	<u>3.11E-03</u>	<u>1.55E-03</u>	2.03E-02	3.79
7-Mar-24	24.35	<u>9.06E-04</u>	<u>6.04E-04</u>	<u>1.51E-03</u>	<u>6.04E-04</u>	6.22E-02	5.27E-01	1.93E-03	1.72E-02	<u>9.06E-04</u>	<u>3.02E-03</u>	<u>1.51E-03</u>	1.43E-02	5.41
13-Mar-24	5.05	<u>9.46E-04</u>	<u>6.31E-04</u>	<u>1.58E-03</u>	<u>6.31E-04</u>	1.40E-01	8.96E-02	<u>9.46E-04</u>	2.46E-03	<u>9.46E-04</u>	<u>3.15E-03</u>	<u>1.58E-03</u>	4.16E-03	
19-Mar-24	7.37	<u>9.22E-04</u>	<u>6.14E-04</u>	<u>1.54E-03</u>	<u>6.14E-04</u>	8.54E-02	1.71E-01	<u>9.22E-04</u>	5.41E-03	<u>9.22E-04</u>	<u>3.07E-03</u>	<u>1.54E-03</u>	7.19E-03	3.66
25-Mar-24	31.72	<u>9.15E-04</u>	<u>6.10E-04</u>	<u>1.52E-03</u>	<u>6.10E-04</u>	1.26E-01	6.01E-01	<u>9.15E-04</u>	1.64E-02	<u>9.15E-04</u>	<u>3.05E-03</u>	<u>1.52E-03</u>	1.40E-02	1.79
31-Mar-24	6.13	<u>9.29E-04</u>	<u>6.19E-04</u>	<u>1.55E-03</u>	<u>6.19E-04</u>	1.05E-01	1.73E-01	<u>9.29E-04</u>	4.89E-03	<u>9.29E-04</u>	<u>3.10E-03</u>	<u>1.55E-03</u>	6.32E-03	4.25
Arithmetic Mean	19.82	1.09E-03	6.17E-04	1.79E-03	6.17E-04	9.39E-02	4.93E-01	2.25E-03	1.63E-02	1.13E-03	3.08E-03	1.68E-03	1.27E-02	2.69
Geometric Mean	12.90	1.00E-03	6.17E-04	1.67E-03	6.17E-04	8.34E-02	2.58E-01	1.56E-03	8.66E-03	1.05E-03	3.08E-03	1.63E-03	1.02E-02	2.06
Max Sample	61.26	3.67E-03	6.63E-04	5.53E-03	6.63E-04	1.58E-01	2.13E+00	1.31E-02	6.02E-02	2.76E-03	3.32E-03	3.87E-03	3.33E-02	5.41
Min Sample	1.55	8.65E-04	5.77E-04	1.44E-03	5.77E-04	2.42E-02	4.48E-02	8.65E-04	1.13E-03	8.65E-04	2.88E-03	1.44E-03	3.98E-03	0.62
AAQC Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > AAQC Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. Valid Samples	16	16	16	16	16	16	16	16	16	16	16	16	16	14
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	15	16	16	16	0	0	9	0	14	16	15	0	0
% of Valid Samples	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	88%

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

Northwest Station Monitoring Results														
(concentrations expressed in µg/m ³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
1-Jan-24	4.95	<u>9.64E-04</u>	<u>6.43E-04</u>	<u>1.61E-03</u>	<u>6.43E-04</u>	4.37E-02	9.96E-02	<u>9.64E-04</u>	2.76E-03	<u>9.64E-04</u>	<u>3.21E-03</u>	<u>1.61E-03</u>	7.07E-03	
7-Jan-24	3.33	<u>9.08E-04</u>	<u>6.05E-04</u>	<u>1.51E-03</u>	<u>6.05E-04</u>	1.08E-01	6.48E-02	<u>9.08E-04</u>	1.94E-03	<u>9.08E-04</u>	<u>3.03E-03</u>	<u>1.51E-03</u>	8.11E-03	0.96
13-Jan-24	4.40	<u>9.04E-04</u>	<u>6.02E-04</u>	<u>1.51E-03</u>	<u>6.02E-04</u>	4.55E-02	7.71E-02	<u>9.04E-04</u>	2.29E-03	<u>9.04E-04</u>	<u>3.01E-03</u>	<u>1.51E-03</u>	3.37E-03	5.20
19-Jan-24	9.44	<u>9.51E-04</u>	<u>6.34E-04</u>	<u>1.58E-03</u>	<u>6.34E-04</u>	1.41E-01	9.19E-02	<u>9.51E-04</u>	2.85E-03	<u>9.51E-04</u>	<u>3.17E-03</u>	<u>1.58E-03</u>	8.87E-03	1.54
25-Jan-24	4.64	<u>9.53E-04</u>	<u>6.35E-04</u>	<u>1.59E-03</u>	<u>6.35E-04</u>	1.43E-01	3.75E-02	<u>9.53E-04</u>	1.27E-03	<u>9.53E-04</u>	<u>3.18E-03</u>	<u>1.59E-03</u>	6.03E-03	1.62
31-Jan-24	4.21	<u>9.72E-04</u>	<u>6.48E-04</u>	<u>1.62E-03</u>	<u>6.48E-04</u>	8.55E-02	5.57E-02	<u>9.72E-04</u>	1.88E-03	<u>9.72E-04</u>	<u>3.24E-03</u>	<u>1.62E-03</u>	8.55E-03	1.62
6-Feb-24	16.72	<u>8.53E-04</u>	<u>5.69E-04</u>	<u>1.42E-03</u>	<u>5.69E-04</u>	2.59E-01	2.02E-01	3.13E-03	1.00E-02	<u>8.53E-04</u>	<u>2.84E-03</u>	<u>1.42E-03</u>	1.51E-02	6.20
12-Feb-24	8.60	<u>9.49E-04</u>	<u>6.32E-04</u>	<u>1.58E-03</u>	<u>6.32E-04</u>	1.15E-01	7.46E-02	<u>9.49E-04</u>	2.40E-03	<u>9.49E-04</u>	<u>3.16E-03</u>	<u>1.58E-03</u>	8.73E-03	4.99
18-Feb-24	10.94	<u>9.22E-04</u>	<u>6.15E-04</u>	<u>1.54E-03</u>	<u>6.15E-04</u>	8.79E-02	3.59E-01	<u>9.22E-04</u>	8.23E-03	<u>9.22E-04</u>	<u>3.07E-03</u>	<u>1.54E-03</u>	6.15E-03	0.83
24-Feb-24	18.65	<u>9.52E-04</u>	<u>6.34E-04</u>	<u>1.59E-03</u>	<u>6.34E-04</u>	5.71E-02	4.94E-01	<u>9.52E-04</u>	1.26E-02	<u>9.52E-04</u>	<u>3.17E-03</u>	<u>1.59E-03</u>	9.77E-03	2.45
1-Mar-24	57.21	<u>8.76E-04</u>	<u>5.84E-04</u>	<u>1.46E-03</u>	<u>5.84E-04</u>	9.29E-02	1.70E+00	5.90E-03	6.90E-02	1.81E-03	<u>2.92E-03</u>	<u>1.46E-03</u>	3.82E-02	3.74
7-Mar-24	77.59	4.83E-03	<u>5.97E-04</u>	<u>1.49E-03</u>	<u>5.97E-04</u>	7.28E-02	1.67E+00	1.15E-02	7.04E-02	3.82E-03	<u>2.98E-03</u>	<u>1.49E-03</u>	8.53E-02	5.74
13-Mar-24	5.10	<u>8.59E-04</u>	<u>5.73E-04</u>	<u>1.43E-03</u>	<u>5.73E-04</u>	1.01E-01	1.01E-01	<u>8.59E-04</u>	3.04E-03	<u>8.59E-04</u>	<u>2.86E-03</u>	<u>1.43E-03</u>	7.39E-03	4.12
19-Mar-24	14.92	<u>9.36E-04</u>	<u>6.24E-04</u>	<u>1.56E-03</u>	<u>6.24E-04</u>	5.39E-02	2.20E-01	<u>9.36E-04</u>	7.86E-03	<u>9.36E-04</u>	<u>3.12E-03</u>	<u>1.56E-03</u>	1.20E-02	4.20
25-Mar-24	44.66	<u>9.32E-04</u>	<u>6.21E-04</u>	3.98E-03	<u>6.21E-04</u>	4.25E-02	1.05E+00	4.41E-03	3.19E-02	2.55E-03	<u>3.11E-03</u>	<u>1.55E-03</u>	3.19E-02	2.25
31-Mar-24	8.37	<u>9.10E-04</u>	<u>6.06E-04</u>	<u>1.52E-03</u>	<u>6.06E-04</u>	7.76E-02	1.26E-01	<u>9.10E-04</u>	4.00E-03	<u>9.10E-04</u>	<u>3.03E-03</u>	<u>1.52E-03</u>	7.64E-03	3.49
Arithmetic Mean	18.36	1.17E-03	6.14E-04	1.69E-03	6.14E-04	9.54E-02	4.02E-01	2.25E-03	1.45E-02	1.26E-03	3.07E-03	1.53E-03	1.11E-02	3.26
Geometric Mean	11.05	1.02E-03	6.13E-04	1.63E-03	6.13E-04	8.45E-02	1.86E-01	1.45E-03	6.03E-03	1.12E-03	3.07E-03	1.53E-03	1.11E-02	2.74

Max Sample	77.59	4.83E-03	6.48E-04	3.98E-03	6.48E-04	2.59E-01	1.70E+00	1.15E-02	7.04E-02	3.82E-03	3.24E-03	1.62E-03	8.53E-02	6.20
Min Sample	3.33	8.53E-04	5.69E-04	1.42E-03	5.69E-04	4.25E-02	3.75E-02	8.59E-04	1.27E-03	8.53E-04	2.84E-03	1.42E-03	3.37E-03	0.83
AAQC Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > AAQC Limit	1	0	0	0	0	0	1	0	0	0	0	0	0	0
No. Valid Samples	16	16	16	16	16	16	16	16	16	16	16	16	16	15
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	15	16	15	16	0	0	12	0	13	16	16	0	0
% of Valid Samples	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	94%

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

APPENDIX A-2:

TOTAL DUSTFALL SAMPLING RESULTS

Dustfall Sampling Results

Tait Road Station Monitoring Results						
(concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
Janaury	31	1.26	0.165	1.26	1.17	<u>0.15</u>
February	29	1.11	0.33	1.41	0.99	0.45
March	31	0.99	0.66	1.65	0.96	0.72
		Arithmetic Mean		1.44	1.04	0.44
		Max Monthly		1.65	1.17	0.72
		Min Monthly		1.26	0.96	0.15
		Dustfall AAQC		7	-	-
		No. > AAQC		0	-	-
		MDL		0.3	0.3	0.3
		No. < MDL		0	0	1
		No. Valid Samples		3	3	3
		% Valid Samples		100%	100%	100%

Gallinger Road Station Monitoring Results						
(concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
Janaury	31	3.84	0.51	4.38	3.72	0.66
February	29	1.5	0.165	1.5	1.26	<u>0.15</u>
March	31	2.04	0.18	2.04	1.86	<u>0.15</u>
		Arithmetic Mean		2.64	2.28	0.32
		Max Monthly		4.38	3.72	0.66
		Min Monthly		1.50	1.26	0.15
		Dustfall AAQC		7	-	-
		No. > AAQC		0	-	-
		MDL		0.3	0.3	0.3
		No. < MDL		0	0	2
		No. Valid Samples		3	3	3
		% Valid Samples		100%	100%	100%

Northwest Station Monitoring Results						
(concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
Janaury	31	<u>0.165</u>	<u>0.165</u>	<u>0.345</u>	<u>0.345</u>	<u>0.15</u>
February	29	0.42	<u>0.165</u>	<u>0.315</u>	<u>0.315</u>	<u>0.15</u>
March	31	3.48	0.42	3.9	3.45	0.45
		Arithmetic Mean		1.52	1.37	0.25
		Max Monthly		3.9	3.45	0.45
		Min Monthly		0.315	0.315	0.15
		Dustfall AAQC		7	-	-
		No. > AAQC		0	-	-
		MDL		0.3	0.3	0.3
		No. < MDL		2	2	2
		No. Valid Samples		3	3	3
		% Valid Samples		100%	100%	100%

APPENDIX A-3:

SO₂ AND NO₂ PASSIVE SAMPLING RESULTS

SO2 and NO2 Sampling Results

Tait Road Station Monitoring		
(concentrations expressed in		
Month	SO₂	NO₂
Janaury	0.52	2.26
February	1.31	1.32
March	<u>0.13</u>	1.32
Arithmetic Mean	0.65	1.63
Max Monthly Concentration	1.31	2.26
Min Monthly Concentration	0.13	1.32
Comparison Limit	30	78
No. > Limit	0	0
MDL	0.26	0.19
No. < MDL	1	0
No. Valid Samples	3	3
% Valid Samples	100%	100%

Gallinger Road Station		
(concentrations expressed in		
Month	SO₂	NO₂
Janaury	0.52	2.63
February	0.79	1.32
March	0.26	0.56
Arithmetic Mean	0.52	1.50
Max Monthly Concentration	0.79	2.63
Min Monthly Concentration	0.26	0.56
Comparison Limit	30	78
No. > Limit	0	0
MDL	0.26	0.19
No. < MDL	0	0
No. Valid Samples	3	3
% Valid Samples	100%	100%

APPENDIX B:

NOTICE OF EXCEEDANCES FOR Q1 2024

APPENDIX C: LABORATORY RESULTS

CERTIFICATE OF ANALYSIS

Work Order	: BU2400050	Page	: 1 of 5
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Mar-2024 11:40
PO	: 4700003553	Date Analysis Commenced	: 06-Mar-2024
C-O-C number	: ----	Issue Date	: 27-Mar-2024 12:41
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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

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
Aaron Burton	Login	Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Owen Cheng		Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
cm ²	square centimetres
days	days
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

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



Analytical Results

Sub-Matrix: Dustfall				Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
(Matrix: Air)									
Client sampling date / time					02-Mar-2024 00:00	02-Mar-2024 00:00	02-Mar-2024 00:00	02-Mar-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400050-001	BU2400050-002	BU2400050-003	BU2400050-004	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	32	32	32	32	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	0.42	0.33	0.14	<0.11	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	<0.10	<0.10	<0.10	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	0.50	0.37	0.14	<0.11	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	<0.11	<0.11	<0.11	<0.11	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	<0.10	0.11	<0.10	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	<0.11	0.11	<0.11	<0.11	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	0.42	0.33	<0.21	<0.21	----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm².day	<0.10	0.15	<0.10	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	0.50	0.47	<0.21	<0.21	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	7.5	5.8	2.4	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	8.9	6.5	2.5	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	<1.9	<1.9	<1.9	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	<1.9	1.9	<1.9	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.00744	0.00852	0.00412	<0.000169	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	<0.0000028	<0.0000028	<0.0000028	<0.0000028	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	0.0000052	0.0000080	0.0000042	<0.0000028	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.0000511	0.0000440	0.0000292	<0.0000028	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000014	<0.000014	<0.000014	<0.000014	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000014	<0.000014	<0.000014	<0.000014	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00028	<0.00028	<0.00028	<0.00028	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	<0.0000013	<0.0000013	<0.0000013	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0221	0.0264	0.0120	<0.00056	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	0.000016	0.000015	<0.000014	<0.000014	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	0.0000034	0.0000052	<0.0000028	<0.0000028	----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-Trip Blank	----
(Matrix: Air)										
Client sampling date / time					02-Mar-2024 00:00	02-Mar-2024 00:00	02-Mar-2024 00:00	02-Mar-2024 00:00	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400050-001	BU2400050-002	BU2400050-003	BU2400050-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	<0.000028	<0.000028	<0.000028	<0.000028	----	
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.00711	0.00953	0.00406	<0.00084	----	
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.0000287	0.0000188	0.0000133	0.0000019	----	
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00014	<0.00014	<0.00014	<0.00014	----	
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.00557	0.00564	0.00308	<0.00014	----	
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.000477	0.000535	0.000294	<0.0000056	----	
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000027	<0.0000026	<0.0000028	<0.0000027	----	
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	<0.0000014	<0.0000014	<0.0000014	<0.0000014	----	
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	0.000031	0.000029	<0.000014	<0.000014	----	
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	<0.0014	<0.0014	<0.0014	<0.0014	----	
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.0019	0.0017	<0.0014	<0.0014	----	
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000028	<0.000028	<0.000028	<0.000028	----	
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	0.0142	0.0125	0.0061	<0.0014	----	
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	<0.00000028	<0.00000028	<0.00000028	<0.00000028	----	
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0021	0.0016	<0.0014	<0.0014	----	
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.0000470	0.0000455	0.0000218	<0.0000028	----	
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000028	<0.0000028	<0.0000028	<0.0000028	----	
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000028	<0.0000028	<0.0000028	<0.0000028	----	
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	<0.00028	<0.00028	<0.00028	<0.00028	----	
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026	----	
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	<0.000028	<0.000028	<0.000028	<0.000028	----	
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.000158	0.000164	0.000141	<0.000084	----	
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.132	0.151	0.0731	<0.0030	----	
Antimony, total	7440-36-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	0.000092	0.000142	0.000074	<0.000050	----	
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.000906	0.000781	0.000518	<0.000050	----	
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	<0.000020	<0.000020	<0.000020	<0.000020	----	



Analytical Results

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-Trip Blank	----
Client sampling date / time					02-Mar-2024 00:00	02-Mar-2024 00:00	02-Mar-2024 00:00	02-Mar-2024 00:00	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400050-001	BU2400050-002	BU2400050-003	BU2400050-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.392	0.469	0.212	<0.010	----	
Chromium, total	7440-47-3	E447/VA	0.00025	mg	0.00028	0.00027	<0.00025	<0.00025	----	
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	0.000060	0.000092	<0.000050	<0.000050	----	
Copper, total	7440-50-8	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Iron, total	7439-89-6	E447/VA	0.015	mg	0.126	0.169	0.072	<0.015	----	
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000509	0.000333	0.000236	0.000033	----	
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025	----	
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.0988	0.100	0.0546	<0.0025	----	
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.00846	0.00948	0.00522	<0.00010	----	
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000048 ^{DLM}	<0.000046 ^{DLM}	<0.000050 ^{DLM}	<0.000048 ^{DLM}	----	
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	<0.000025	<0.000025	<0.000025	<0.000025	----	
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00055	0.00051	<0.00025	<0.00025	----	
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	<0.025	<0.025	<0.025	<0.025	----	
Potassium, total	7440-09-7	E447/VA	0.025	mg	0.034	0.030	<0.025	<0.025	----	
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.252	0.222	0.108	<0.025	----	
Silver, total	7440-22-4	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.037	0.029	<0.025	<0.025	----	
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.000833	0.000806	0.000387	<0.000050	----	
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0028	0.0029	0.0025	<0.0015	----	

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400050	Page	: 1 of 11
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Mar-2024 11:40
PO	: 4700003553	Issue Date	: 27-Mar-2024 12:41
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Total Metals	BU2400050-001	Dustfall-North	Lead, total	7439-92-1	E447	47.2 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-North	EF001A	02-Mar-2024	----	----	----		20-Mar-2024	----	19 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	EF001A	02-Mar-2024	----	----	----		20-Mar-2024	----	19 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-South	EF001A	02-Mar-2024	----	----	----		20-Mar-2024	----	19 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	EF001A	02-Mar-2024	----	----	----		20-Mar-2024	----	19 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-North	EF001B	02-Mar-2024	----	----	----		06-Mar-2024	----	5 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	EF001B	02-Mar-2024	----	----	----		06-Mar-2024	----	5 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-South	EF001B	02-Mar-2024	----	----	----		06-Mar-2024	----	5 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	EF001B	02-Mar-2024	----	----	----		06-Mar-2024	----	5 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E885	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E885	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E885	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E885	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E884	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E884	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E884	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E884	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E882	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E882	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E882	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E882	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E881	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E881	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E881	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E881	02-Mar-2024	19-Mar-2024	----	----		19-Mar-2024	----	17 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E516	02-Mar-2024	11-Mar-2024	180 days	10 days	✓	11-Mar-2024	180 days	0 days	✓

Page : 7 of 11
 Work Order : BU2400050
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E516	02-Mar-2024	11-Mar-2024	180 days	10 days	✓	11-Mar-2024	180 days	0 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E516	02-Mar-2024	11-Mar-2024	180 days	10 days	✓	11-Mar-2024	180 days	0 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E516	02-Mar-2024	11-Mar-2024	180 days	10 days	✓	11-Mar-2024	180 days	0 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E447	02-Mar-2024	12-Mar-2024	180 days	11 days	✓	15-Mar-2024	180 days	14 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E447	02-Mar-2024	12-Mar-2024	180 days	11 days	✓	15-Mar-2024	180 days	14 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E447	02-Mar-2024	12-Mar-2024	180 days	11 days	✓	15-Mar-2024	180 days	14 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E447	02-Mar-2024	12-Mar-2024	180 days	11 days	✓	15-Mar-2024	180 days	14 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1358985	1	10	10.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1358982	1	17	5.8	5.0	✓
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1371602	1	4	25.0	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1371603	1	4	25.0	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1371605	1	4	25.0	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1358985	1	10	10.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1358982	1	17	5.8	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1371604	1	4	25.0	5.0	✓
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1371602	1	4	25.0	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1371603	1	4	25.0	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1371605	1	4	25.0	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1358985	1	10	10.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1358982	1	17	5.8	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1371604	1	4	25.0	5.0	✓
Matrix Spikes (MS)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1358985	1	10	10.0	5.0	✓



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm ² .day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm ² .day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustall and Fixed Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm ² .day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustall and Volatile Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm ² .day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm ² .day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm ² .day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm ²)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm ²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Page : 11 of 11
 Work Order : BU2400050
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion.adapted from US EPA 200.2.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400050	Page	: 1 of 8
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	:	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Mar-2024 11:40
PO	: 4700003553	Date Analysis Commenced	: 06-Mar-2024
C-O-C number	: ----	Issue Date	: 27-Mar-2024 12:41
Sampler	: Client 807 234 8200		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
Owen Cheng		Vancouver Metals, Burnaby, British Columbia

Page : 2 of 8
Work Order : BU2400050
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1358982)											
BU2400050-001	Dustfall-North	Aluminum, total	7429-90-5	E447	0.0030	mg	0.132	0.134	1.05%	40%	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000092	0.000110	0.000018	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.000906	0.000908	0.198%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.392	0.412	4.97%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	0.00028	0.00030	0.00001	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	0.000060	0.000057	0.000003	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	0.126	0.133	5.44%	30%	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000509	0.000315	47.2%	40%	DUP-H
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.0988	0.104	5.02%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00846	0.00889	4.97%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	0.00055	0.00056	0.00001	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	0.034	0.040	0.006	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.252	0.243	3.60%	30%	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	0.0000059	0.0000009	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	0.037	0.040	0.002	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.000833	0.000881	5.61%	40%	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1358982) - continued											
BU2400050-001	Dustfall-North	Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0028	0.0026	0.0001	Diff <2x LOR	----
Total Metals (QC Lot: 1358985)											
BU2400050-001	Dustfall-North	Mercury, total	7439-97-6	E516	0.000048	mg	<0.000048	<0.000048	0	Diff <2x LOR	----

Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1371602)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1371603)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1371604)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1371605)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Total Metals (QCLot: 1358982)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1358982) - continued						
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1358985)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1371602)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	98.0	85.0	115	----
Particulates (QCLot: 1371603)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	108	85.0	115	----
Particulates (QCLot: 1371604)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	101	85.0	115	----
Particulates (QCLot: 1371605)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	97.8	85.0	115	----
Total Metals (QCLot: 1358982)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	101	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	110	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	109	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	108	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	102	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	109	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	106	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	104	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	102	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	102	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	103	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	102	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	104	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	106	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	103	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	102	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	102	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	108	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	93.0	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	111	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	108	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	107	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	111	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	93.2	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Concentration	LCS	Low	High	Qualifier
AnalyteCAS NumberMethodLORUnit									
Total Metals (QCLot: 1358982) - continued									
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	110	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	106	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	107	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	101	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	107	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.0025 mg	109	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	104	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	104	80.0	120	----
Total Metals (QCLot: 1358985)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.00062 mg	122	70.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report				
					Spike		Recovery (%)	Recovery Limits (%)	
					Concentration	Target	MS	Low	High
Laboratory sample IDClient sample IDAnalyteCAS NumberMethod									
Total Metals (QCLot: 1358985)									
BU2400050-002	Dustfall-South	Mercury, total	7439-97-6	E516	0.000937 mg	0.00092 mg	102	70.0	130



Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/01/30-2024/03/02
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/03/20

Report #: R3477145

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C416925

Received: 2024/03/11, 08:00

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
NO2 Passive Analysis	2	2024/03/18	2024/03/19	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/03/13	2024/03/19	PTC SOP-00149	Passive SO2 in ATM

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C416925
Report Date: 2024/03/20

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CKO201	CKO202		
Sampling Date		2024/01/30 12:00	2024/01/30 12:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.7	0.7	0.1	B315385
Calculated SO2	ppb	0.5	0.3	0.1	B311796
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C416925
Report Date: 2024/03/20

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C416925
Report Date: 2024/03/20

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B311796	OZ	Spiked Blank	Calculated SO2			100	%	90 - 110
B311796	OZ	Method Blank	Calculated SO2		<0.1		ppb	
B315385	S1T	Spiked Blank	Calculated NO2			100	%	90 - 110
B315385	S1T	Method Blank	Calculated NO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C416925
Report Date: 2024/03/20

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Steven Gloux".

Steven Gloux, Senior Analyst

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New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON POW 1A0

Date Received: 06-MAR-24
Report Date: 27-MAR-24 08:57 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2754839
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Claire Kocharakkal, B.Sc.
Project Manager

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ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754839-1 NORTH-TSP-529 Sampled By: Client on 06-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	20700		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	229		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	225		20	ug	25-MAR-24	25-MAR-24	R5978342
	9.2		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	4.7		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	27.3		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-2 NORTH-TSP-530 Sampled By: Client on 12-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	21500		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	244		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	199		20	ug	25-MAR-24	25-MAR-24	R5978342
	11.9		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	4.1		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	19.2		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-3 NORTH-TSP-531 Sampled By: Client on 18-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	35300		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	235		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	774		20	ug	25-MAR-24	25-MAR-24	R5978342
	25.1		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	19.4		5.0	ug	25-MAR-24	25-MAR-24	R5978342

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754839-4 NORTH-TSP-532 Sampled By: Client on 24-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	46800		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	118		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	1010		20	ug	25-MAR-24	25-MAR-24	R5978342
	35.9		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	3.2		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	27.5		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-5 SOUTH-TSP-529 Sampled By: Client on 06-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	18200		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	85.1		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	173		20	ug	25-MAR-24	25-MAR-24	R5978342
	5.0		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	3.8		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	21.8		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-6 SOUTH-TSP-530 Sampled By: Client on 12-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	29300		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	172		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	425		20	ug	25-MAR-24	25-MAR-24	R5978342
	16.9		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	4.5		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	21.8		5.0	ug	25-MAR-24	25-MAR-24	R5978342

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754839-7 SOUTH-TSP-531 Sampled By: Client on 18-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	190000		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	4.8		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	14.7		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	185		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	8510		20	ug	25-MAR-24	25-MAR-24	R5978342
	200		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	11.9		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	6.5		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	15.2		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	50.4		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-8 SOUTH-TSP-532 Sampled By: Client on 24-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	67700		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	5.6		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	100		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	3160		20	ug	25-MAR-24	25-MAR-24	R5978342
	72.0		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	4.4		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	5.8		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	21.5		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-9 NORTHWEST-TSP-529 Sampled By: Client on 06-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	29400		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	455		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	356		20	ug	25-MAR-24	25-MAR-24	R5978342
	17.6		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	5.5		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	26.6		5.0	ug	25-MAR-24	25-MAR-24	R5978342

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754839-10 NORTHWEST-TSP-530 Sampled By: Client on 12-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	13600		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	182		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	118		20	ug	25-MAR-24	25-MAR-24	R5978342
	3.8		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	13.8		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-11 NORTHWEST-TSP-531 Sampled By: Client on 18-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	17800		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	143		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	585		20	ug	25-MAR-24	25-MAR-24	R5978342
	13.4		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	10.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-12 NORTHWEST-TSP-532 Sampled By: Client on 24-FEB-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	29400		2300	ug		26-MAR-24	R5978348
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	90.0		4.0	ug	25-MAR-24	25-MAR-24	R5978342
	779		20	ug	25-MAR-24	25-MAR-24	R5978342
	19.9		1.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
	15.4		5.0	ug	25-MAR-24	25-MAR-24	R5978342

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754839-13 TSP-FEBRUARY TRIP BLANK Sampled By: Client on 03-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		26-MAR-24	R5978348
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
Cadmium (Cd)	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
Cobalt (Co)	<2.0		2.0	ug	25-MAR-24	25-MAR-24	R5978342
Chromium (Cr)	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
Copper (Cu)	<4.0		4.0	ug	25-MAR-24	25-MAR-24	R5978342
Iron (Fe)	27		20	ug	25-MAR-24	25-MAR-24	R5978342
Manganese (Mn)	<1.0		1.0	ug	25-MAR-24	25-MAR-24	R5978342
Nickel (Ni)	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
Lead (Pb)	<3.0		3.0	ug	25-MAR-24	25-MAR-24	R5978342
Selenium (Se)	<10		10	ug	25-MAR-24	25-MAR-24	R5978342
Vanadium (V)	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
Zinc (Zn)	<5.0		5.0	ug	25-MAR-24	25-MAR-24	R5978342
L2754839-14 NORTH-PM2.5-529 Sampled By: Client on 06-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	130		15	ug		15-MAR-24	R5977938
L2754839-15 NORTH-PM2.5-530 Sampled By: Client on 12-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	28		15	ug		15-MAR-24	R5977938
L2754839-16 NORTH-PM2.5-531 Sampled By: Client on 18-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	23		15	ug		15-MAR-24	R5977938
L2754839-17 NORTH-PM2.5-532 Sampled By: Client on 24-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	66		15	ug		15-MAR-24	R5977938
L2754839-18 SOUTH-PM2.5-529 Sampled By: Client on 06-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	134		15	ug		15-MAR-24	R5977938
L2754839-19 SOUTH-PM2.5-530 Sampled By: Client on 12-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	116		15	ug		15-MAR-24	R5977938
L2754839-20 SOUTH-PM2.5-531 Sampled By: Client on 18-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754839-20 SOUTH-PM2.5-531 Sampled By: Client on 18-FEB-24 Matrix: 47mm Filter Total particulate	54		15	ug		15-MAR-24	R5977938
L2754839-21 SOUTH-PM2.5-532 Sampled By: Client on 24-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	72		15	ug		15-MAR-24	R5977938
L2754839-22 NORTHWEST-PM2.5-529 Sampled By: Client on 06-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	149		15	ug		15-MAR-24	R5977938
L2754839-23 NORTHWEST-PM2.5-530 Sampled By: Client on 12-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	120		15	ug		15-MAR-24	R5977938
L2754839-24 NORTHWEST-PM2.5-531 Sampled By: Client on 18-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	20		15	ug		15-MAR-24	R5977938
L2754839-25 NORTHWEST-PM2.5-532 Sampled By: Client on 24-FEB-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	59		15	ug		15-MAR-24	R5977938
L2754839-26 PM2.5-FEBRUARY TRIP BLANK Sampled By: Client on 03-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		15-MAR-24	R5977938

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
MET-IO3.5-MS-BU	Filter	Metals on High Volume Filter by ICPMS	IO3.5
After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.			
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2754839

Report Date: 27-MAR-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project

24 Marr Rd

Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU		Filter						
Batch	R5978342							
WG3788866-3	DUP	L2754839-1						
Arsenic (As)		<3.0	<3.0	RPD-NA	ug	N/A	20	25-MAR-24
Cadmium (Cd)		<2.0	<2.0	RPD-NA	ug	N/A	20	25-MAR-24
Cobalt (Co)		<2.0	<2.0	RPD-NA	ug	N/A	20	25-MAR-24
Chromium (Cr)		<5.0	<5.0	RPD-NA	ug	N/A	20	25-MAR-24
Copper (Cu)		229	252		ug	9.4	20	25-MAR-24
Iron (Fe)		225	275		ug	20	25	25-MAR-24
Manganese (Mn)		9.2	9.7		ug	5.2	20	25-MAR-24
Nickel (Ni)		<3.0	<3.0	RPD-NA	ug	N/A	20	25-MAR-24
Lead (Pb)		4.7	4.8		ug	1.9	20	25-MAR-24
Selenium (Se)		<10	<10	RPD-NA	ug	N/A	20	25-MAR-24
Vanadium (V)		<5.0	<5.0	RPD-NA	ug	N/A	20	25-MAR-24
Zinc (Zn)		27.3	28.6		ug	4.7	20	25-MAR-24
WG3788866-2	LCS							
Arsenic (As)			100.0		%		80-120	25-MAR-24
Cadmium (Cd)			102.2		%		80-120	25-MAR-24
Cobalt (Co)			98.2		%		80-120	25-MAR-24
Chromium (Cr)			96.8		%		80-120	25-MAR-24
Copper (Cu)			100.0		%		80-120	25-MAR-24
Iron (Fe)			99.0		%		80-120	25-MAR-24
Manganese (Mn)			94.9		%		80-120	25-MAR-24
Nickel (Ni)			98.1		%		80-120	25-MAR-24
Lead (Pb)			110.0		%		80-120	25-MAR-24
Selenium (Se)			108.0		%		80-120	25-MAR-24
Vanadium (V)			96.3		%		80-120	25-MAR-24
Zinc (Zn)			101.5		%		80-120	25-MAR-24
WG3788866-1	MB							
Arsenic (As)			<3.0		ug		3	25-MAR-24
Cadmium (Cd)			<0.027		ug		0.027	25-MAR-24
Cobalt (Co)			<0.030		ug		0.03	25-MAR-24
Chromium (Cr)			<3.4		ug		3.4	25-MAR-24
Copper (Cu)			<1.0		ug		1	25-MAR-24
Iron (Fe)			<12		ug		12	25-MAR-24
Manganese (Mn)			<0.45		ug		0.45	25-MAR-24
Nickel (Ni)			<0.25		ug		0.25	25-MAR-24
Lead (Pb)			<0.12		ug		0.12	25-MAR-24



Quality Control Report

Workorder: L2754839

Report Date: 27-MAR-24

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU								
Filter								
Batch R5978342								
WG3788866-1 MB								
Selenium (Se)			<1.3		ug		1.25	25-MAR-24
Vanadium (V)			<5.0		ug		10	25-MAR-24
Zinc (Zn)			<4.5		ug		4.5	25-MAR-24
WG3788866-4 MS		L2754839-1						
Arsenic (As)			99.9		%		75-125	25-MAR-24
Cadmium (Cd)			103.3		%		75-125	25-MAR-24
Cobalt (Co)			99.7		%		75-125	25-MAR-24
Chromium (Cr)			100.3		%		75-125	25-MAR-24
Copper (Cu)			N/A	MS-B	%		-	25-MAR-24
Iron (Fe)			120.2		%		75-125	25-MAR-24
Manganese (Mn)			98.5		%		75-125	25-MAR-24
Nickel (Ni)			99.9		%		75-125	25-MAR-24
Lead (Pb)			106.6		%		75-125	25-MAR-24
Selenium (Se)			107.6		%		75-125	25-MAR-24
Vanadium (V)			98.5		%		75-125	25-MAR-24
Zinc (Zn)			104.2		%		75-125	25-MAR-24
PART-HIVOL-GRAV-BU								
Filter								
Batch R5978348								
WG3788871-1 MB								
Total particulate			<100		ug		100	26-MAR-24
PART-M212 F-GRAV-BU								
Filter								
Batch R5977938								
WG3788780-3 DUP		L2754839-14						
Total particulate		130	130		ug	0.0	10	15-MAR-24
WG3788780-1 MB								
Total particulate			<15		ug		15	15-MAR-24

Quality Control Report

Workorder: L2754839

Report Date: 27-MAR-24

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

[illegible]

CERTIFICATE OF ANALYSIS

Work Order	: BU2400028	Page	: 1 of 5
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: Air Quality	Date Samples Received	: 05-Feb-2024 12:00
PO	: 4700001830	Date Analysis Commenced	: 15-Feb-2024
C-O-C number	: ----	Issue Date	: 26-Feb-2024 13:10
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 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

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
Aaron Burton	Login	Administration, Burlington, Ontario
Brieanna Allen	Production/Validation Manager	Inorganics, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Sam Silveira	Analyst	Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
cm ²	square centimetres
days	days
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

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



Analytical Results

Sub-Matrix: Dustfall				Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
(Matrix: Air)									
Client sampling date / time					30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400028-001	BU2400028-002	BU2400028-003	BU2400028-004	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	30	30	30	30	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	1.24	0.39	<0.11	<0.11	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	<0.10	<0.10	<0.10	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	1.28	0.42	<0.11	<0.11	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	<0.11	<0.11	<0.11	<0.11	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	0.17	<0.10	<0.10	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	0.17	<0.11	<0.11	<0.11	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	1.24	0.39	<0.23	<0.23	----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm².day	0.22	<0.10	<0.10	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	1.46	0.42	<0.23	<0.23	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	20.6	6.5	<1.9	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	21.3	7.0	<1.9	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	<1.9	<1.9	<1.9	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	2.9	<1.9	<1.9	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.0200	0.00812	0.00157	<0.000180	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	0.0000095	<0.0000030	<0.0000030	<0.0000030	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	0.0000261	0.0000091	<0.0000030	<0.0000030	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.0000945	0.0000371	0.0000112	<0.0000030	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000015	<0.000015	<0.000015	<0.000015	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000015	<0.000015	<0.000015	<0.000015	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00030	<0.00030	<0.00030	<0.00030	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	0.0000021	<0.0000013	<0.0000013	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0342	0.0166	0.00313	<0.00060	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	0.000023	0.000022	<0.000015	<0.000015	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	0.0000085	0.0000044	<0.0000030	<0.0000030	----



Analytical Results

Sub-Matrix: Dustfall
(Matrix: Air)

					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-Trip Blank	----
Client sampling date / time						30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400028-001	BU2400028-002	BU2400028-003	BU2400028-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	0.000081	0.000035	<0.000030	<0.000030	----	
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.0129	0.00890	0.00150	<0.00090	----	
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.000244	0.0000224	0.0000032	<0.0000015	----	
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00015	<0.00015	<0.00015	<0.00015	----	
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.00993	0.00493	0.00092	<0.00015	----	
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.00118	0.000371	0.0000644	<0.0000060	----	
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000024	<0.0000023	<0.0000024	<0.0000028	----	
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	0.0000026	<0.0000015	<0.0000015	<0.0000015	----	
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	0.000276	0.000034	<0.000015	<0.000015	----	
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	<0.0015	<0.0015	<0.0015	<0.0015	----	
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.0070	<0.0015	<0.0015	<0.0015	----	
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000030	<0.000030	<0.000030	<0.000030	----	
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	<0.0286	0.0120	0.0024	<0.0015	----	
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	0.00000511	0.00000052	0.00000031	<0.00000030	----	
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0019	<0.0015	<0.0015	<0.0015	----	
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.0000626	0.0000304	0.0000062	<0.0000030	----	
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000030	<0.0000030	<0.0000030	<0.0000030	----	
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000030	<0.0000030	<0.0000030	<0.0000030	----	
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	<0.00030	<0.00030	<0.00030	<0.00030	----	
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026	----	
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	<0.000030	<0.000030	<0.000030	<0.000030	----	
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.000517	0.000174	<0.000090	<0.000090	----	
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.333	0.135	0.0261	<0.0030	----	
Antimony, total	7440-36-0	E447/VA	0.000050	mg	0.000158	<0.000050	<0.000050	<0.000050	----	
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	0.000434	0.000152	<0.000050	<0.000050	----	
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.00157	0.000616	0.000186	<0.000050	----	
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	0.000035	<0.000020	<0.000020	<0.000020	----	



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
(Matrix: Air)										
Client sampling date / time					30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	30-Jan-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400028-001	BU2400028-002	BU2400028-003	BU2400028-004	-----	
					Result	Result	Result	Result	-----	
Total Metals										
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.568	0.276	0.052	<0.010		----
Chromium, total	7440-47-3	E447/VA	0.00025	mg	0.00038	0.00037	<0.00025	<0.00025		----
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	0.000142	0.000073	<0.000050	<0.000050		----
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00134	0.00058	<0.00050	<0.00050		----
Iron, total	7439-89-6	E447/VA	0.015	mg	0.214	0.148	0.025	<0.015		----
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.00405	0.000373	0.000054	<0.000025		----
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025		----
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.165	0.0819	0.0153	<0.0025		----
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.0197	0.00617	0.00107	<0.00010		----
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000040 ^{DLM}	<0.000039 ^{DLM}	<0.000040 ^{DLM}	<0.000046 ^{DLM}		----
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000043	<0.000025	<0.000025	<0.000025		----
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00459	0.00057	<0.00025	<0.00025		----
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	<0.025	<0.025	<0.025	<0.025		----
Potassium, total	7440-09-7	E447/VA	0.025	mg	0.116	<0.025	<0.025	<0.025		----
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050		----
Silicon, total	7440-21-3	E447/VA	0.025	mg	<0.475 ^{DLM}	0.200	0.040	<0.025		----
Silver, total	7440-22-4	E447/VA	0.0000050	mg	0.0000850	0.0000086	0.0000051	<0.0000050		----
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.032	<0.025	<0.025	<0.025		----
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.00104	0.000506	0.000103	<0.000050		----
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050		----
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050		----
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050		----
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	0.0000089	<0.0000050	<0.0000050	<0.0000050		----
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050		----
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0086	0.0029	<0.0015	<0.0015		----

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400028	Page	: 1 of 10
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: Air Quality	Date Samples Received	: 05-Feb-2024 12:00
PO	: 4700001830	Issue Date	: 26-Feb-2024 13:10
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-North	EF001A	30-Jan-2024	----	----	----		22-Feb-2024	----	24 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	EF001A	30-Jan-2024	----	----	----		22-Feb-2024	----	24 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-South	EF001A	30-Jan-2024	----	----	----		22-Feb-2024	----	24 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	EF001A	30-Jan-2024	----	----	----		22-Feb-2024	----	24 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-North	EF001B	30-Jan-2024	----	----	----		26-Feb-2024	----	27 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	EF001B	30-Jan-2024	----	----	----		26-Feb-2024	----	27 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-South	EF001B	30-Jan-2024	----	----	----		26-Feb-2024	----	27 days	

Page : 4 of 10
 Work Order : BU2400028
 Client : New Gold Inc. (Rainy River)
 Project : Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	EF001B	30-Jan-2024	----	----	----		26-Feb-2024	----	27 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E885	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E885	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E885	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E885	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E884	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E884	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E884	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E884	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E882	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E882	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E882	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E882	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E881	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E881	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E881	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E881	30-Jan-2024	16-Feb-2024	----	----		21-Feb-2024	----	23 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E516	30-Jan-2024	15-Feb-2024	180 days	17 days	✓	16-Feb-2024	180 days	1 days	✓

Page : 6 of 10
 Work Order : BU2400028
 Client : New Gold Inc. (Rainy River)
 Project : Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E516	30-Jan-2024	15-Feb-2024	180 days	17 days	✓	16-Feb-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E516	30-Jan-2024	15-Feb-2024	180 days	17 days	✓	16-Feb-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E516	30-Jan-2024	15-Feb-2024	180 days	17 days	✓	16-Feb-2024	180 days	1 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-North	E447	30-Jan-2024	21-Feb-2024	180 days	23 days	✓	22-Feb-2024	180 days	24 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Northwest	E447	30-Jan-2024	21-Feb-2024	180 days	23 days	✓	22-Feb-2024	180 days	24 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-South	E447	30-Jan-2024	21-Feb-2024	180 days	23 days	✓	22-Feb-2024	180 days	24 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E447	30-Jan-2024	21-Feb-2024	180 days	23 days	✓	22-Feb-2024	180 days	24 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1334623	1	11	9.0	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1339192	1	11	9.0	5.0	✔
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1335682	1	4	25.0	5.0	✔
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1335683	1	4	25.0	5.0	✔
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1335685	1	4	25.0	5.0	✔
Total Mercury by CVAAS (Dustfall, mg)	E516	1334623	1	11	9.0	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1339192	1	11	9.0	5.0	✔
Total Soluble Dustfalls by Gravimetry (mg)	E881	1335684	1	11	9.0	5.0	✔
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1335682	1	4	25.0	5.0	✔
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1335683	1	4	25.0	5.0	✔
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1335685	1	4	25.0	5.0	✔
Total Mercury by CVAAS (Dustfall, mg)	E516	1334623	1	11	9.0	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1339192	1	11	9.0	5.0	✔
Total Soluble Dustfalls by Gravimetry (mg)	E881	1335684	1	11	9.0	5.0	✔
Matrix Spikes (MS)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1334623	1	11	9.0	5.0	✔



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Soluble Dustfalls by Gravimetry (mg/dm2.day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm2.day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm2.day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm2.day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm2.day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm2.day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm2.day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm2.day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm2)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Page : 10 of 10
 Work Order : BU2400028
 Client : New Gold Inc. (Rainy River)
 Project : Air Quality



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion.adapted from US EPA 200.2.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400028	Page	: 1 of 8
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	:	Telephone	: +1 905 331 3111
Project	: Air Quality	Date Samples Received	: 05-Feb-2024 12:00
PO	: 4700001830	Date Analysis Commenced	: 15-Feb-2024
C-O-C number	: ----	Issue Date	: 26-Feb-2024 13:10
Sampler	: Client 807 234 8200		
Site	:		
Quote number	: Air Quality Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Brieanna Allen	Production/Validation Manager	Vancouver Inorganics, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Sam Silveira	Analyst	Vancouver Metals, Burnaby, British Columbia

Page : 2 of 8
Work Order : BU2400028
Client : New Gold Inc. (Rainy River)
Project : Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1334623)											
BU2400028-001	Dustfall-North	Mercury, total	7439-97-6	E516	0.000040	mg	<0.000040	<0.000040	0	Diff <2x LOR	----
Total Metals (QC Lot: 1339192)											
WP2403193-001	Anonymous	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0141	0.0124	0.0017	Diff <2x LOR	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.000209	0.000190	0.000019	Diff <2x LOR	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.030	0.028	0.001	Diff <2x LOR	----
		Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	<0.015	<0.015	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000062	0.000062	0.0000005	Diff <2x LOR	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.0074	0.0066	0.0008	Diff <2x LOR	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00048	0.00043	0.00005	Diff <2x LOR	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.047	<0.025	0.022	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	0.029	0.028	0.0010	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.000117	0.000116	0.000001	Diff <2x LOR	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1339192) - continued											
WP2403193-001	Anonymous	Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0083	0.0079	0.0004	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1335682)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1335683)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1335684)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1335685)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Total Metals (QCLot: 1334623)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----
Total Metals (QCLot: 1339192)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1339192) - continued						
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1335682)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	94.2	85.0	115	----
Particulates (QCLot: 1335683)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	108	85.0	115	----
Particulates (QCLot: 1335684)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	99.5	85.0	115	----
Particulates (QCLot: 1335685)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	93.9	85.0	115	----
Total Metals (QCLot: 1334623)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.00062 mg	93.8	70.0	130	----
Total Metals (QCLot: 1339192)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	104	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	103	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	107	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	104	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	103	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	102	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	98.3	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	103	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	99.5	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	103	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	103	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	101	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	101	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	104	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	102	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	105	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	101	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	104	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	103	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	114	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	102	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	97.9	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1339192) - continued									
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	100	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	96.3	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	104	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	104	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	104	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	105	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	101	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.0025 mg	106	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	103	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	96.6	80.0	120	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
					Concentration	Target	MS	Low	High	Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method						
Total Metals (QCLot: 1334623)										
BU2400028-002	Dustfall-South	Mercury, total	7439-97-6	E516	0.000739 mg	0.00078 mg	94.8	70.0	130	----



Chain of Custody / Analytical Request Form
1435 NorJohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



L2754508-COFC

Report To			Report Format / Distribution			Service Requested				
Company: New Gold Inc.						Regular Service				
Contact: Robyn Lloyd						Rush Service (with prior consultation) - surcharge applies				
Address: 1361 Roen Road, Chapple, ON P0W 1A0			Email 1: rlloyd@newgold.com			Other - Please contact ALS				
Phone: 807-234-8200 ext. 8029 Fax:			Email 2:			Analysis Request				
Invoice To: Same as Report			Client / Project Information							
Company:			Job #: 1 Air Quality							
Contact:			Location:							
Address:			PO: 14700001830							
Phone: Fax:			Sampled by:							
Lab Work Order #			ALS Contact:							
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (h:mm)	Sample Type	TSP and Metals	Pm 2.5	Dustfall Incl. Volatile	Hazardous? Provide Data	Highly Contaminated?	Number of Containers
	NORTH-TSP-523	1-Jan-2024	12:00	Air	X					
	SOUTH-TSP-523	1-Jan-2024	12:00	Air	X					
	NORTHWEST-TSP-523	1-Jan-2024	12:00	Air	X					
	NORTH-TSP-524	7-Jan-2024	12:00	Air	X					
	SOUTH-TSP-524	7-Jan-2024	12:00	Air	X					
	NORTHWEST-TSP-524	7-Jan-2024	12:00	Air	X					
	NORTH-TSP-525	13-Jan-2024	12:00	Air	X					
	SOUTH-TSP-525	13-Jan-2024	12:00	Air	X					
	NORTHWEST-TSP-525	13-Jan-2024	12:00	Air	X					
	NORTH-TSP-526	19-Jan-2024	12:00	Air	X					
	SOUTH-TSP-526	19-Jan-2024	12:00	Air	X					
	NORTHWEST-TSP-526	19-Jan-2024	12:00	Air	X					
	NORTH-TSP-527	25-Jan-2024	12:00	Air	X					
	SOUTH-TSP-527	25-Jan-2024	12:00	Air	X					
	NORTHWEST-TSP-527	25-Jan-2024	12:00	Air	X					
	TRIP BLANK - January TSP	30-Jan-2024	12:00	Air	X					
	NORTH-PM2.5-523	1-Jan-2024	12:00	Air		X				
	SOUTH-PM2.5-523	1-Jan-2024	12:00	Air		X				
	NORTH-PM2.5-524	7-Jan-2024	12:00	Air		X				
	SOUTH-PM2.5-524	7-Jan-2024	12:00	Air		X				
	NORTHWEST-PM2.5-524	7-Jan-2024	12:00	Air		X				
	NORTH-PM2.5-525	13-Jan-2024	12:00	Air		X				
	SOUTH-PM2.5-525	13-Jan-2024	12:00	Air		X				
	NORTHWEST-PM2.5-525	13-Jan-2024	12:00	Air		X				
	NORTH-PM2.5-526	19-Jan-2024	12:00	Air		X				
	SOUTH-PM2.5-526	19-Jan-2024	12:00	Air		X				
	NORTHWEST-PM2.5-526	19-Jan-2024	12:00	Air		X				
	NORTH-PM2.5-527	25-Jan-2024	12:00	Air		X				
	SOUTH-PM2.5-527	25-Jan-2024	12:00	Air		X				
	NORTHWEST-PM2.5-527	25-Jan-2024	12:00	Air		X				
	TRIP BLANK - January- PM2.5	31-Jan-2024	12:00	Air		X				
	Dustfall- Northwest	30-Jan-2024	12:00	Air			X			
	Dustfall - Trip Blank	30-Jan-2024	12:00	Air			X			
	Dustfall - North	30-Jan-2024	12:00	Air			X			
	Dustfall - South	30-Jan-2024	12:00	Air			X			
Special Instructions / Regulations / Hazardous Details										
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS										
Released by:	Date (dd-mm-yy)	Time (h:m)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:
			ARROW BURTON	5-FEB	12:00	13.0 °C				Yes / No ? If Yes add SIF

Environmental Division
Burlington
Work Order Reference
BU2400028



Telephone : 1-905-331-3111

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at <http://www.bvllabs.com/terms-and-conditions>.



New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON POW 1A0

Date Received: 05-FEB-24
Report Date: 22-FEB-24 11:52 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2754508
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Claire Kocharakkal, B.Sc.
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-1 NORTH-TSP-523 Sampled By: Client on 01-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	10300		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	38.9		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	198		20	ug	14-FEB-24	15-FEB-24	R5976196
	5.6		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	8.2		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-2 NORTH-TSP-524 Sampled By: Client on 07-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	2600		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	265		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	75		20	ug	14-FEB-24	15-FEB-24	R5976196
	1.9		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	8.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-3 NORTH-TSP-525 Sampled By: Client on 13-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	9100		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	119		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	148		20	ug	14-FEB-24	15-FEB-24	R5976196
	4.6		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	6.9		5.0	ug	14-FEB-24	15-FEB-24	R5976196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-4 NORTH-TSP-526 Sampled By: Client on 19-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	85800		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	68.0		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	941		20	ug	14-FEB-24	15-FEB-24	R5976196
	57.6		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	21.3		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	54.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-5 NORTH-TSP-527 Sampled By: Client on 25-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	8600		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	84.6		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	127		20	ug	14-FEB-24	15-FEB-24	R5976196
	4.5		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	8.4		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-6 NORTH-TSP-528 Sampled By: Client on 31-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	51600		2300	ug		13-FEB-24	R5975880
	5.6		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	86.0		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	3240		20	ug	14-FEB-24	15-FEB-24	R5976196
	90.5		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	4.2		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	4.1		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	5.9		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	42.3		5.0	ug	14-FEB-24	15-FEB-24	R5976196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-7 SOUTH-TSP-523 Sampled By: Client on 01-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	14800		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	78.3		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	482		20	ug	14-FEB-24	15-FEB-24	R5976196
	12.1		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	9.1		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-8 SOUTH-TSP-524 Sampled By: Client on 07-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	23600		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	329		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	878		20	ug	14-FEB-24	15-FEB-24	R5976196
	22.3		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	15.8		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-9 SOUTH-TSP-525 Sampled By: Client on 13-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	83400		2300	ug		13-FEB-24	R5975880
	5.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	165		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	1310		20	ug	14-FEB-24	15-FEB-24	R5976196
	62.1		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	5.2		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	50.9		5.0	ug	14-FEB-24	15-FEB-24	R5976196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-10 SOUTH-TSP-526 Sampled By: Client on 19-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	177000		2300	ug		13-FEB-24	R5975880
	4.2		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	2.5		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	11.7		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	230		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	5220		20	ug	14-FEB-24	15-FEB-24	R5976196
	156		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	11.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	11.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	8.6		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	95.4		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-11 SOUTH-TSP-527 Sampled By: Client on 25-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	9700		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	232		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	120		20	ug	14-FEB-24	15-FEB-24	R5976196
	3.7		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	8.1		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-12 SOUTH-TSP-528 Sampled By: Client on 31-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	9600		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	136		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	176		20	ug	14-FEB-24	15-FEB-24	R5976196
	6.3		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	15.3		5.0	ug	14-FEB-24	15-FEB-24	R5976196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-13 NORTHWEST-TSP-523 Sampled By: Client on 01-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	7700		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	68.0		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	155		20	ug	14-FEB-24	15-FEB-24	R5976196
	4.3		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	11.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-14 NORTHWEST-TSP-524 Sampled By: Client on 07-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	5500		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	178		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	107		20	ug	14-FEB-24	15-FEB-24	R5976196
	3.2		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	13.4		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-15 NORTHWEST-TSP-525 Sampled By: Client on 13-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	7300		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	75.6		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	128		20	ug	14-FEB-24	15-FEB-24	R5976196
	3.8		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	5.6		5.0	ug	14-FEB-24	15-FEB-24	R5976196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-16 NORTHWEST-TSP-526 Sampled By: Client on 19-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	14900		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	223		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	145		20	ug	14-FEB-24	15-FEB-24	R5976196
	4.5		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	14.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-17 NORTHWEST-TSP-527 Sampled By: Client on 25-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	7300		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	225		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	59		20	ug	14-FEB-24	15-FEB-24	R5976196
	2.0		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	9.5		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-18 NORTHWEST-TSP-528 Sampled By: Client on 31-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	6500		2300	ug		13-FEB-24	R5975880
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	132		4.0	ug	14-FEB-24	15-FEB-24	R5976196
	86		20	ug	14-FEB-24	15-FEB-24	R5976196
	2.9		1.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
	13.2		5.0	ug	14-FEB-24	15-FEB-24	R5976196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-19 TSP-JANUARY TRIP BLANK Sampled By: Client on 30-JAN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		13-FEB-24	R5975880
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
Cadmium (Cd)	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
Cobalt (Co)	<2.0		2.0	ug	14-FEB-24	15-FEB-24	R5976196
Chromium (Cr)	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
Copper (Cu)	<4.0		4.0	ug	14-FEB-24	15-FEB-24	R5976196
Iron (Fe)	<20		20	ug	14-FEB-24	15-FEB-24	R5976196
Manganese (Mn)	<1.0		1.0	ug	14-FEB-24	15-FEB-24	R5976196
Nickel (Ni)	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
Lead (Pb)	<3.0		3.0	ug	14-FEB-24	15-FEB-24	R5976196
Selenium (Se)	<10		10	ug	14-FEB-24	15-FEB-24	R5976196
Vanadium (V)	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
Zinc (Zn)	<5.0		5.0	ug	14-FEB-24	15-FEB-24	R5976196
L2754508-20 NORTH-PM2.5-523 Sampled By: Client on 01-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	23		15	ug		14-FEB-24	R5975917
L2754508-21 NORTH-PM2.5-524 Sampled By: Client on 07-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	15		15	ug		14-FEB-24	R5975917
L2754508-22 NORTH-PM2.5-525 Sampled By: Client on 13-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	19		15	ug		14-FEB-24	R5975917
L2754508-23 NORTH-PM2.5-526 Sampled By: Client on 19-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	122		15	ug		14-FEB-24	R5975917
L2754508-24 NORTH-PM2.5-527 Sampled By: Client on 25-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	26		15	ug		14-FEB-24	R5975917
L2754508-25 NORTH-PM2.5-528 Sampled By: Client on 31-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	63		15	ug		14-FEB-24	R5975917
L2754508-26 SOUTH-PM2.5-523 Sampled By: Client on 01-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-26 SOUTH-PM2.5-523 Sampled By: Client on 01-JAN-24 Matrix: 47mm Filter Total particulate	75		15	ug		14-FEB-24	R5975917
L2754508-27 SOUTH-PM2.5-524 Sampled By: Client on 07-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	89		15	ug		14-FEB-24	R5975917
L2754508-28 SOUTH-PM2.5-525 Sampled By: Client on 13-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	23		15	ug		14-FEB-24	R5975917
L2754508-29 SOUTH-PM2.5-526 Sampled By: Client on 19-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	188		15	ug		14-FEB-24	R5975917
L2754508-30 SOUTH-PM2.5-527 Sampled By: Client on 25-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	19		15	ug		14-FEB-24	R5975917
L2754508-31 SOUTH-PM2.5-528 Sampled By: Client on 31-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	43		15	ug		14-FEB-24	R5975917
L2754508-32 NORTHWEST-PM2.5-524 Sampled By: Client on 07-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	56		15	ug		14-FEB-24	R5975917
L2754508-33 NORTHWEST-PM2.5-525 Sampled By: Client on 13-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	23		15	ug		14-FEB-24	R5975917
L2754508-34 NORTHWEST-PM2.5-526 Sampled By: Client on 19-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	125		15	ug		14-FEB-24	R5975917
L2754508-35 NORTHWEST-PM2.5-527 Sampled By: Client on 25-JAN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	37		15	ug		14-FEB-24	R5975917

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2754508-36	NORTHWEST-PM2.5-528							
Sampled By: Client on 31-JAN-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		39		15	ug		14-FEB-24	R5975917
L2754508-37	PM2.5-JANUARY TRIP BLANK							
Sampled By: Client on 31-JAN-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		<15		15	ug		14-FEB-24	R5975917

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
MET-IO3.5-MS-BU	Filter	Metals on High Volume Filter by ICPMS	IO3.5
After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.			
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2754508

Report Date: 22-FEB-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project

24 Marr Rd

Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU		Filter						
Batch	R5976196							
WG3788454-3	DUP	L2754508-1						
Arsenic (As)		<3.0	<3.0	RPD-NA	ug	N/A	20	15-FEB-24
Cadmium (Cd)		<2.0	<2.0	RPD-NA	ug	N/A	20	15-FEB-24
Cobalt (Co)		<2.0	<2.0	RPD-NA	ug	N/A	20	15-FEB-24
Chromium (Cr)		<5.0	<5.0	RPD-NA	ug	N/A	20	15-FEB-24
Copper (Cu)		38.9	33.7		ug	15	20	15-FEB-24
Iron (Fe)		198	203		ug	2.2	25	15-FEB-24
Manganese (Mn)		5.6	5.3		ug	5.0	20	15-FEB-24
Nickel (Ni)		<3.0	<3.0	RPD-NA	ug	N/A	20	15-FEB-24
Lead (Pb)		<3.0	<3.0	RPD-NA	ug	N/A	20	15-FEB-24
Selenium (Se)		<10	<10	RPD-NA	ug	N/A	20	15-FEB-24
Vanadium (V)		<5.0	<5.0	RPD-NA	ug	N/A	20	15-FEB-24
Zinc (Zn)		8.2	7.2		ug	13	20	15-FEB-24
WG3788454-2	LCS							
Arsenic (As)			102.0		%		80-120	15-FEB-24
Cadmium (Cd)			100.6		%		80-120	15-FEB-24
Cobalt (Co)			98.0		%		80-120	15-FEB-24
Chromium (Cr)			97.1		%		80-120	15-FEB-24
Copper (Cu)			101.0		%		80-120	15-FEB-24
Iron (Fe)			98.4		%		80-120	15-FEB-24
Manganese (Mn)			97.4		%		80-120	15-FEB-24
Nickel (Ni)			98.6		%		80-120	15-FEB-24
Lead (Pb)			98.6		%		80-120	15-FEB-24
Selenium (Se)			103.0		%		80-120	15-FEB-24
Vanadium (V)			98.6		%		80-120	15-FEB-24
Zinc (Zn)			102.0		%		80-120	15-FEB-24
WG3788454-1	MB							
Arsenic (As)			<3.0		ug		3	15-FEB-24
Cadmium (Cd)			<0.027		ug		0.027	15-FEB-24
Cobalt (Co)			<0.030		ug		0.03	15-FEB-24
Chromium (Cr)			<3.4		ug		3.4	15-FEB-24
Copper (Cu)			<1.0		ug		1	15-FEB-24
Iron (Fe)			<12		ug		12	15-FEB-24
Manganese (Mn)			<0.45		ug		0.45	15-FEB-24
Nickel (Ni)			<0.25		ug		0.25	15-FEB-24
Lead (Pb)			<0.12		ug		0.12	15-FEB-24



Quality Control Report

Workorder: L2754508

Report Date: 22-FEB-24

Page 2 of 3

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU								
	Filter							
Batch	R5976196							
WG3788454-1 MB								
Selenium (Se)			<1.3		ug		1.25	15-FEB-24
Vanadium (V)			<5.0		ug		10	15-FEB-24
Zinc (Zn)			<4.5		ug		4.5	15-FEB-24
WG3788454-4 MS		L2754508-1						
Arsenic (As)			98.5		%		75-125	15-FEB-24
Cadmium (Cd)			95.9		%		75-125	15-FEB-24
Cobalt (Co)			95.1		%		75-125	15-FEB-24
Chromium (Cr)			94.4		%		75-125	15-FEB-24
Copper (Cu)			94.5		%		75-125	15-FEB-24
Iron (Fe)			106.0		%		75-125	15-FEB-24
Manganese (Mn)			95.6		%		75-125	15-FEB-24
Nickel (Ni)			97.0		%		75-125	15-FEB-24
Lead (Pb)			96.2		%		75-125	15-FEB-24
Selenium (Se)			99.3		%		75-125	15-FEB-24
Vanadium (V)			94.9		%		75-125	15-FEB-24
Zinc (Zn)			99.4		%		75-125	15-FEB-24
PART-HIVOL-GRAV-BU								
	Filter							
Batch	R5975880							
WG3788421-2 DUP		L2754508-1						
Total particulate		10300	10400		ug	1.0	5	13-FEB-24
WG3788421-1 MB								
Total particulate			<100		ug		100	13-FEB-24
PART-M212 F-GRAV-BU								
	Filter							
Batch	R5975917							
WG3788437-3 DUP		L2754508-20						
Total particulate		23	24		ug	4.3	10	14-FEB-24
WG3788437-1 MB								
Total particulate			<15		ug		15	14-FEB-24

Quality Control Report

Workorder: L2754508

Report Date: 22-FEB-24

Page 3 of 3

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody / Analytical Request Form
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



L2754508-COFC

Report To			Report Format / Distribution			Service Requested		
Company:	New Gold Inc.					Regular Service		
Contact:	Robyn Lloyd					Rush Service (with prior consultation) - surcharge applies		
Address:	1361 Roen Road, Chapple, ON P0W 1A0		Email 1: robyn.lloyd@newgold.com			Other - Please contact ALS		
Phone:	807-234-8200 ext. 8029		Email 2:					
Invoice To	Same as Report		Client / Project Information			Analysis Request		
Company:			Job #:			TSP and Metals		
Contact:			Location:			Pm 2.5		
Address:			PO:			Dustfall Incl. volatile		
Phone:			Sampled by:					
Lab Work Order #			ALS Contact:					
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type				
	NORTH-TSP-523	1-Jan-2024	12:00	Air	X			
	SOUTH-TSP-523	1-Jan-2024	12:00	Air	X			
	NORTHWEST-TSP-523	1-Jan-2024	12:00	Air	X			
	NORTH-TSP-524	7-Jan-2024	12:00	Air	X			
	SOUTH-TSP-524	7-Jan-2024	12:00	Air	X			
	NORTHWEST-TSP-524	7-Jan-2024	12:00	Air	X			
	NORTH-TSP-525	13-Jan-2024	12:00	Air	X			
	SOUTH-TSP-525	13-Jan-2024	12:00	Air	X			
	NORTHWEST-TSP-525	13-Jan-2024	12:00	Air	X			
	NORTH-TSP-526	19-Jan-2024	12:00	Air	X			
	SOUTH-TSP-526	19-Jan-2024	12:00	Air	X			
	NORTHWEST-TSP-526	19-Jan-2024	12:00	Air	X			
	NORTH-TSP-527	25-Jan-2024	12:00	Air	X			
	SOUTH-TSP-527	25-Jan-2024	12:00	Air	X			
	NORTHWEST-TSP-527	25-Jan-2024	12:00	Air	X			
	TRIP BLANK - January TSP	30-Jan-2024	12:00	Air	X			
	NORTH-PM2.5-523	1-Jan-2024	12:00	Air	X	X		
	SOUTH-PM2.5-523	1-Jan-2024	12:00	Air	X	X		
	NORTH-PM2.5-524	7-Jan-2024	12:00	Air	X	X		
	SOUTH-PM2.5-524	7-Jan-2024	12:00	Air	X	X		
	NORTHWEST-PM2.5-524	7-Jan-2024	12:00	Air	X	X		
	NORTH-PM2.5-525	13-Jan-2024	12:00	Air	X	X		
	SOUTH-PM2.5-525	13-Jan-2024	12:00	Air	X	X		
	NORTHWEST-PM2.5-525	13-Jan-2024	12:00	Air	X	X		
	NORTH-PM2.5-526	19-Jan-2024	12:00	Air	X	X		
	SOUTH-PM2.5-526	19-Jan-2024	12:00	Air	X	X		
	NORTHWEST-PM2.5-526	19-Jan-2024	12:00	Air	X	X		
	NORTH-PM2.5-527	25-Jan-2024	12:00	Air	X	X		
	SOUTH-PM2.5-527	25-Jan-2024	12:00	Air	X	X		
	NORTHWEST-PM2.5-527	25-Jan-2024	12:00	Air	X	X		
	TRIP BLANK - January- PM2.5	31-Jan-2024	12:00	Air	X	X		
	Dustfall- Northwest	30-Jan-2024	12:00	Air		X		
	Dustfall - Trip Blank	30-Jan-2024	12:00	Air		X		
	Dustfall - North	30-Jan-2024	12:00	Air		X		
	Dustfall - South	30-Jan-2024	12:00	Air		X		
Special Instructions / Regulations / Hazardous Details								
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS								
Released by:	Date (dd-mm-yy)	Time (hh:mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Observations:
			AARON BARTON	5-FEB 2024	12:00	13.0 °C		Yes / No ? If Yes add SIF



Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/03/02-2024/03/30
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/04/17
Report #: R3488747
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C424201

Received: 2024/04/08, 14:24

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
NO2 Passive Analysis	2	2024/04/09	2024/04/16	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/04/11	2024/04/16	PTC SOP-00149	Passive SO2 in ATM

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



Bureau Veritas Job #: C424201
Report Date: 2024/04/17

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CLV392	CLV393		
Sampling Date		2024/03/02 12:00	2024/03/02 12:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.7	0.3	0.1	B334635
Calculated SO2	ppb	<0.1	0.1	0.1	B337186
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C424201
Report Date: 2024/04/17

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C424201
Report Date: 2024/04/17

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B334635	S1T	Spiked Blank	Calculated NO2	2024/04/09		100	%	90 - 110
B334635	S1T	Method Blank	Calculated NO2	2024/04/09	<0.1		ppb	
B337186	OZ	Spiked Blank	Calculated SO2			100	%	90 - 110
B337186	OZ	Method Blank	Calculated SO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C424201
Report Date: 2024/04/17

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "S. Gloux", written over a horizontal line.

Steven Gloux, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON POW 1A0

Date Received: 04-APR-24
Report Date: 23-APR-24 09:55 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2755211
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Robert Chin, B.Sc.
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-1 NORTH-TSP-533 Sampled By: Client on 01-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	98500		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	8.9		5.0	ug	18-APR-24	19-APR-24	R5979898
	120		4.0	ug	18-APR-24	19-APR-24	R5979898
	3130		20	ug	18-APR-24	19-APR-24	R5979898
	96.8		1.0	ug	18-APR-24	19-APR-24	R5979898
	4.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	4.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	32.6		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-2 NORTH-TSP-534 Sampled By: Client on 07-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	40300		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	103		4.0	ug	18-APR-24	19-APR-24	R5979898
	873		20	ug	18-APR-24	19-APR-24	R5979898
	28.4		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	3.2		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	23.6		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-3 NORTH-TSP-535 Sampled By: Client on 13-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	8000		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	222		4.0	ug	18-APR-24	19-APR-24	R5979898
	142		20	ug	18-APR-24	19-APR-24	R5979898
	3.9		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	6.6		5.0	ug	18-APR-24	19-APR-24	R5979898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-4 NORTH-TSP-536 Sampled By: Client on 19-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	12000		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	139		4.0	ug	18-APR-24	19-APR-24	R5979898
	279		20	ug	18-APR-24	19-APR-24	R5979898
	8.8		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	11.7		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-5 NORTH-TSP-537 Sampled By: Client on 25-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	52000		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	207		4.0	ug	18-APR-24	19-APR-24	R5979898
	986		20	ug	18-APR-24	19-APR-24	R5979898
	26.9		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	23.0		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-6 NORTH-TSP-538 Sampled By: Client on 31-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	9900		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	169		4.0	ug	18-APR-24	19-APR-24	R5979898
	279		20	ug	18-APR-24	19-APR-24	R5979898
	7.9		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	10.2		5.0	ug	18-APR-24	19-APR-24	R5979898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-7 SOUTH-TSP-533 Sampled By: Client on 01-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	69900		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	94.5		4.0	ug	18-APR-24	19-APR-24	R5979898
	2170		20	ug	18-APR-24	19-APR-24	R5979898
	79.7		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	4.3		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	29.8		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-8 SOUTH-TSP-534 Sampled By: Client on 07-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	32400		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	79.7		4.0	ug	18-APR-24	19-APR-24	R5979898
	725		20	ug	18-APR-24	19-APR-24	R5979898
	21.0		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	13.7		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-9 SOUTH-TSP-535 Sampled By: Client on 13-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	17500		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	117		4.0	ug	18-APR-24	19-APR-24	R5979898
	689		20	ug	18-APR-24	19-APR-24	R5979898
	17.5		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	12.6		5.0	ug	18-APR-24	19-APR-24	R5979898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-10 SOUTH-TSP-536 Sampled By: Client on 19-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	162000		2300	ug		10-APR-24	R5979200
	5.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	2.1		2.0	ug	18-APR-24	19-APR-24	R5979898
	9.2		5.0	ug	18-APR-24	19-APR-24	R5979898
	149		4.0	ug	18-APR-24	19-APR-24	R5979898
	4680		20	ug	18-APR-24	19-APR-24	R5979898
	133		1.0	ug	18-APR-24	19-APR-24	R5979898
	8.4		3.0	ug	18-APR-24	19-APR-24	R5979898
	7.8		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	7.7		5.0	ug	18-APR-24	19-APR-24	R5979898
	71.1		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-11 SOUTH-TSP-537 Sampled By: Client on 25-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	123000		2300	ug		10-APR-24	R5979200
	3.6		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	8.9		5.0	ug	18-APR-24	19-APR-24	R5979898
	62.6		4.0	ug	18-APR-24	19-APR-24	R5979898
	3650		20	ug	18-APR-24	19-APR-24	R5979898
	113		1.0	ug	18-APR-24	19-APR-24	R5979898
	6.5		3.0	ug	18-APR-24	19-APR-24	R5979898
	11.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	5.9		5.0	ug	18-APR-24	19-APR-24	R5979898
	75.6		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-12 SOUTH-TSP-538 Sampled By: Client on 31-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	25700		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	163		4.0	ug	18-APR-24	19-APR-24	R5979898
	1170		20	ug	18-APR-24	19-APR-24	R5979898
	27.8		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	16.6		5.0	ug	18-APR-24	19-APR-24	R5979898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-13 NORTHWEST-TSP-533 Sampled By: Client on 01-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	97900		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	159		4.0	ug	18-APR-24	19-APR-24	R5979898
	2910		20	ug	18-APR-24	19-APR-24	R5979898
	118		1.0	ug	18-APR-24	19-APR-24	R5979898
	3.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	10.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	65.3		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-14 NORTHWEST-TSP-534 Sampled By: Client on 07-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	130000		2300	ug		10-APR-24	R5979200
	8.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	122		4.0	ug	18-APR-24	19-APR-24	R5979898
	2800		20	ug	18-APR-24	19-APR-24	R5979898
	118		1.0	ug	18-APR-24	19-APR-24	R5979898
	6.4		3.0	ug	18-APR-24	19-APR-24	R5979898
	19.2		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	143		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-15 NORTHWEST-TSP-535 Sampled By: Client on 13-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	8900		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	176		4.0	ug	18-APR-24	19-APR-24	R5979898
	176		20	ug	18-APR-24	19-APR-24	R5979898
	5.3		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	12.9		5.0	ug	18-APR-24	19-APR-24	R5979898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-16 NORTHWEST-TSP-536 Sampled By: Client on 19-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	23900		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	86.4		4.0	ug	18-APR-24	19-APR-24	R5979898
	353		20	ug	18-APR-24	19-APR-24	R5979898
	12.6		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	19.3		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-17 NORTHWEST-TSP-537 Sampled By: Client on 25-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	71900		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	6.4		5.0	ug	18-APR-24	19-APR-24	R5979898
	68.4		4.0	ug	18-APR-24	19-APR-24	R5979898
	1690		20	ug	18-APR-24	19-APR-24	R5979898
	51.3		1.0	ug	18-APR-24	19-APR-24	R5979898
	4.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	7.1		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	51.3		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-18 NORTHWEST-TSP-538 Sampled By: Client on 31-MAR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	13800		2300	ug		10-APR-24	R5979200
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	128		4.0	ug	18-APR-24	19-APR-24	R5979898
	208		20	ug	18-APR-24	19-APR-24	R5979898
	6.6		1.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
	<10		10	ug	18-APR-24	19-APR-24	R5979898
	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
	12.6		5.0	ug	18-APR-24	19-APR-24	R5979898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-19 TSP-MARCH TRIP BLANK Sampled By: Client on 01-APR-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		10-APR-24	R5979200
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
Cadmium (Cd)	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
Cobalt (Co)	<2.0		2.0	ug	18-APR-24	19-APR-24	R5979898
Chromium (Cr)	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
Copper (Cu)	<4.0		4.0	ug	18-APR-24	19-APR-24	R5979898
Iron (Fe)	33		20	ug	18-APR-24	19-APR-24	R5979898
Manganese (Mn)	<1.0		1.0	ug	18-APR-24	19-APR-24	R5979898
Nickel (Ni)	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
Lead (Pb)	<3.0		3.0	ug	18-APR-24	19-APR-24	R5979898
Selenium (Se)	<10		10	ug	18-APR-24	19-APR-24	R5979898
Vanadium (V)	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
Zinc (Zn)	<5.0		5.0	ug	18-APR-24	19-APR-24	R5979898
L2755211-20 NORTH-PM2.5-533 Sampled By: Client on 01-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	91		15	ug		11-APR-24	R5979256
L2755211-21 NORTH-PM2.5-534 Sampled By: Client on 07-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	130		15	ug		11-APR-24	R5979256
L2755211-22 NORTH-PM2.5-535 Sampled By: Client on 13-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	89		15	ug		11-APR-24	R5979256
L2755211-23 NORTH-PM2.5-536 Sampled By: Client on 19-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	88		15	ug		11-APR-24	R5979256
L2755211-24 NORTH-PM2.5-537 Sampled By: Client on 25-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	43		15	ug		11-APR-24	R5979256
L2755211-25 NORTH-PM2.5-538 Sampled By: Client on 31-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	102		15	ug		11-APR-24	R5979256
L2755211-26 SOUTH-PM2.5-533 Sampled By: Client on 01-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-26 SOUTH-PM2.5-533 Sampled By: Client on 01-MAR-24 Matrix: 47mm Filter Total particulate	32		15	ug		11-APR-24	R5979256
L2755211-27 SOUTH-PM2.5-534 Sampled By: Client on 07-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	57		15	ug		11-APR-24	R5979256
L2755211-28 SOUTH-PM2.5-535 Sampled By: Client on 13-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	76		15	ug		11-APR-24	R5979256
L2755211-29 SOUTH-PM2.5-536 Sampled By: Client on 19-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	127		15	ug		11-APR-24	R5979256
L2755211-30 SOUTH-PM2.5-537 Sampled By: Client on 25-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	69		15	ug		11-APR-24	R5979256
L2755211-31 SOUTH-PM2.5-538 Sampled By: Client on 31-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	92		15	ug		11-APR-24	R5979256
L2755211-32 NORTHWEST-PM2.5-533 Sampled By: Client on 01-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	90		15	ug		11-APR-24	R5979256
L2755211-33 NORTHWEST-PM2.5-534 Sampled By: Client on 07-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	138		15	ug		11-APR-24	R5979256
L2755211-34 NORTHWEST-PM2.5-535 Sampled By: Client on 13-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	99		15	ug		11-APR-24	R5979256
L2755211-35 NORTHWEST-PM2.5-536 Sampled By: Client on 19-MAR-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	101		15	ug		11-APR-24	R5979256

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2755211-36	NORTHWEST-PM2.5-537							
Sampled By: Client on 25-MAR-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		54		15	ug		11-APR-24	R5979256
L2755211-37	NORTHWEST-PM2.5-538							
Sampled By: Client on 31-MAR-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		84		15	ug		11-APR-24	R5979256
L2755211-38	PM2.5-MARCH TRIP BLANK							
Sampled By: Client on 01-APR-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		<15		15	ug		11-APR-24	R5979256

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
MET-IO3.5-MS-BU	Filter	Metals on High Volume Filter by ICPMS	IO3.5
After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.			
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2755211

Report Date: 23-APR-24

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU		Filter						
Batch	R5979898							
WG3789097-3	DUP	L2755211-1						
Arsenic (As)		<3.0	<3.0	RPD-NA	ug	N/A	20	19-APR-24
Cadmium (Cd)		<2.0	<2.0	RPD-NA	ug	N/A	20	19-APR-24
Cobalt (Co)		<2.0	<2.0	RPD-NA	ug	N/A	20	19-APR-24
Chromium (Cr)		8.9	9.2		ug	4.0	20	19-APR-24
Copper (Cu)		120	121		ug	0.4	20	19-APR-24
Iron (Fe)		3130	3170		ug	1.3	25	19-APR-24
Manganese (Mn)		96.8	97.7		ug	0.9	20	19-APR-24
Nickel (Ni)		4.0	4.0		ug	0.8	20	19-APR-24
Lead (Pb)		4.1	4.3		ug	5.1	20	19-APR-24
Selenium (Se)		<10	<10	RPD-NA	ug	N/A	20	19-APR-24
Vanadium (V)		<5.0	<5.0	RPD-NA	ug	N/A	20	19-APR-24
Zinc (Zn)		32.6	33.0		ug	1.1	20	19-APR-24
WG3789097-2	LCS							
Arsenic (As)			107.0		%		80-120	19-APR-24
Cadmium (Cd)			105.2		%		80-120	19-APR-24
Cobalt (Co)			103.0		%		80-120	19-APR-24
Chromium (Cr)			101.0		%		80-120	19-APR-24
Copper (Cu)			105.0		%		80-120	19-APR-24
Iron (Fe)			106.0		%		80-120	19-APR-24
Manganese (Mn)			101.0		%		80-120	19-APR-24
Nickel (Ni)			103.0		%		80-120	19-APR-24
Lead (Pb)			104.0		%		80-120	19-APR-24
Selenium (Se)			109.0		%		80-120	19-APR-24
Vanadium (V)			102.0		%		80-120	19-APR-24
Zinc (Zn)			106.5		%		80-120	19-APR-24
WG3789097-1	MB							
Arsenic (As)			<3.0		ug		3	19-APR-24
Cadmium (Cd)			<0.027		ug		0.027	19-APR-24
Cobalt (Co)			<0.030		ug		0.03	19-APR-24
Chromium (Cr)			<3.4		ug		3.4	19-APR-24
Copper (Cu)			<1.0		ug		1	19-APR-24
Iron (Fe)			<12		ug		12	19-APR-24
Manganese (Mn)			<0.45		ug		0.45	19-APR-24
Nickel (Ni)			<0.25		ug		0.25	19-APR-24
Lead (Pb)			<0.12		ug		0.12	19-APR-24



Quality Control Report

Workorder: L2755211

Report Date: 23-APR-24

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU								
	Filter							
Batch	R5979898							
WG3789097-1 MB								
Selenium (Se)			<1.3		ug		1.25	19-APR-24
Vanadium (V)			<5.0		ug		10	19-APR-24
Zinc (Zn)			<4.5		ug		4.5	19-APR-24
WG3789097-4 MS		L2755211-1						
Arsenic (As)			107.8		%		75-125	19-APR-24
Cadmium (Cd)			106.9		%		75-125	19-APR-24
Cobalt (Co)			103.4		%		75-125	19-APR-24
Chromium (Cr)			102.3		%		75-125	19-APR-24
Copper (Cu)			N/A	MS-B	%		-	19-APR-24
Iron (Fe)			N/A	MS-B	%		-	19-APR-24
Manganese (Mn)			N/A	MS-B	%		-	19-APR-24
Nickel (Ni)			102.1		%		75-125	19-APR-24
Lead (Pb)			107.9		%		75-125	19-APR-24
Selenium (Se)			113.0		%		75-125	19-APR-24
Vanadium (V)			102.3		%		75-125	19-APR-24
Zinc (Zn)			103.3		%		75-125	19-APR-24
PART-HIVOL-GRAV-BU								
	Filter							
Batch	R5979200							
WG3788984-3 DUP		L2755211-1						
Total particulate		98500	98600		ug	0.1	5	10-APR-24
WG3788984-1 MB								
Total particulate			<100		ug		100	10-APR-24
PART-M212 F-GRAV-BU								
	Filter							
Batch	R5979256							
WG3788988-3 DUP		L2755211-20						
Total particulate		91	92		ug	1.1	10	11-APR-24
WG3788988-1 MB								
Total particulate			<15		ug		15	11-APR-24

Quality Control Report

Workorder: L2755211

Report Date: 23-APR-24

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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L2755211-COFC

APPENDIX D: HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS



Site Information

Location: North Station
Sampler: E-5170 MFC

Site ID: 145
Serial No: 367

Date: 2-Feb-24
Tech: Robyn Lloyd

Site Conditions

Barometric Pressure (in Hg): 28.58
Temperature (deg F): 34
Average Press. (in Hg): 28.62
Average Temp. (deg F): 31

Corrected Pressure (mm Hg): 726
Temperature (deg K): 274
Corrected Average (mm Hg): 728
Average Temp. (deg K): 272

Calibration Orifice

Make: Tisch
Model: TE-5028
Serial#: 3662

Qstd Slope: 1.68695
Qstd Intercept: -0.04137
Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.29	0.939	38.0	38.73	Slope: 31.7144
2	2.68	1.014	40.0	40.77	Intercept: 8.7673
3	3.05	1.080	42.0	42.81	Corr. Coeff: 0.9986
4	3.39	1.137	44.0	44.85	
5	3.77	1.198	46.0	46.88	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std})(T_{std}/T_a))-b]$$

$$IC = I[\text{Sqrt}(P_a/P_{std})(T_{std}/T_a)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I[\text{Sqrt}(298/T_a)(P_a/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

1.14367203

Average Flow Calculation in CFM

40.38305937

Sample Time (Hrs): 24.0

Total Flow in m3/min

1646.887723

Total Flow in CFM

58151.60549

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: Northwest Station
Sampler: E-5170 MFC

Site ID: 145
Serial No: 367

Date: 1-Feb-24
Tech: Robyn Lloyd

Site Conditions

Barometric Pressure (in Hg): 28.74
Temperature (deg F): 35
Average Press. (in Hg): 28.74
Average Temp. (deg F): 35

Corrected Pressure (mm Hg): 730
Temperature (deg K): 275
Corrected Average (mm Hg): 730
Average Temp. (deg K): 275

Calibration Orifice

Make: Tisch
Model: TE-5028
Serial#: 3662

Qstd Slope: 1.68695
Qstd Intercept: -0.04137
Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.77	1.032	38.0	38.80	Slope: 33.2764
2	3.22	1.111	40.0	40.85	Intercept: 4.2617
3	3.50	1.157	42.0	42.89	Corr. Coeff: 0.9975
4	3.92	1.223	44.0	44.93	
5	4.31	1.281	46.0	46.97	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

1.221748206

Average Flow Calculation in CFM

43.13992915

Sample Time (Hrs): 24.0

Total Flow in m3/min

1759.317417

Total Flow in CFM

62121.49798

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: **South Station**
 Sampler: **E-5170 MFC**

Site ID: **145**
 Serial No: **367**

Date: **1-Feb-24**
 Tech: **Robyn Lloyd**

Site Conditions

Barometric Pressure (in Hg): **28.62**
 Temperature (deg F): **36**
 Average Press. (in Hg): **28.62**
 Average Temp. (deg F): **36**

Corrected Pressure (mm Hg): **727**
 Temperature (deg K): **275**
 Corrected Average (mm Hg): **727**
 Average Temp. (deg K): **275**

Calibration Orifice

Make: **Tisch**
 Model: **TE-5028**
 Serial#: **3662**

Qstd Slope: **1.68695**
 Qstd Intercept: **-0.04137**
 Date Certified: **11-Oct-23**

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	1.58	0.783	40.0	40.72	Slope: 33.7288
2	1.71	0.814	42.0	42.76	Intercept: 14.7794
3	2.04	0.887	44.0	44.80	Corr. Coeff: 0.9929
4	2.39	0.958	46.0	46.83	
5	2.66	1.009	48.0	48.87	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

0.889402334

Average Flow Calculation in CFM

31.40479643

Sample Time (Hrs): 24.0

Total Flow in m3/min

1280.739362

Total Flow in CFM

45222.90686

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: **South Station**
 Sampler: **E-5170 MFC**

Site ID: **145**
 Serial No: **367**

Date: **2-Feb-24**
 Tech: **Robyn Lloyd**

Site Conditions

Barometric Pressure (in Hg): **28.66**
 Temperature (deg F): **31**
 Average Press. (in Hg): **28.62**
 Average Temp. (deg F): **31**

Corrected Pressure (mm Hg): **728**
 Temperature (deg K): **272**
 Corrected Average (mm Hg): **728**
 Average Temp. (deg K): **272**

Calibration Orifice

Make: **Tisch**
 Model: **TE-5028**
 Serial#: **3662**

Qstd Slope: **1.68695**
 Qstd Intercept: **-0.04137**
 Date Certified: **11-Oct-23**

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.65	1.013	44.0	45.06	Slope: 34.0363
2	3.00	1.076	46.0	47.11	Intercept: 10.8052
3	3.20	1.110	48.0	49.15	Corr. Coeff: 0.9913
4	3.60	1.176	50.0	51.20	
5	4.13	1.258	52.0	53.25	
					# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0
Average Flow Calculation m3/min
 1.005779401
Average Flow Calculation in CFM
 35.51407063
Sample Time (Hrs): 24.0
Total Flow in m3/min
 1448.322337
Total Flow in CFM
 51140.26171

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: **South Station**
 Sampler: **E-5170 MFC**

Site ID: **145**
 Serial No: **367**

Date: **3-Feb-24**
 Tech: **Robyn Lloyd**

Site Conditions

Barometric Pressure (in Hg): **28.54**
 Temperature (deg F): **37**
 Average Press. (in Hg): **28.54**
 Average Temp. (deg F): **37**

Corrected Pressure (mm Hg): **725**
 Temperature (deg K): **276**
 Corrected Average (mm Hg): **725**
 Average Temp. (deg K): **276**

Calibration Orifice

Make: **Tisch**
 Model: **TE-5028**
 Serial#: **3662**

Qstd Slope: **1.68695**
 Qstd Intercept: **-0.04137**
 Date Certified: **11-Oct-23**

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.61	0.997	38.0	38.57	Slope: 24.7032
2	3.07	1.079	40.0	40.60	Intercept: 14.0313
3	3.60	1.166	42.0	42.63	Corr. Coeff: 0.9927
4	3.90	1.213	44.0	44.66	
5	4.74	1.335	46.0	46.69	
					# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std}))(T_{std}/T_a)] - b]$
 $IC = I[\text{Sqrt}(P_a/P_{std})(T_{std}/T_a)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I)[\text{Sqrt}(298/T_a)](P_a/760)) - b]$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0
Average Flow Calculation m3/min
 1.239984719
Average Flow Calculation in CFM
 43.78386044
Sample Time (Hrs): 24.0
Total Flow in m3/min
 1785.577996
Total Flow in CFM
 63048.75904

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: **South Station**
 Sampler: **E-5170 MFC**

Site ID: **145**
 Serial No: **367**

Date: **17-Feb-24**
 Tech: **Robyn Lloyd**

Site Conditions

Barometric Pressure (in Hg): **28.07**
 Temperature (deg F): **32**
 Average Press. (in Hg): **28.07**
 Average Temp. (deg F): **32**

Corrected Pressure (mm Hg): **725**
 Temperature (deg K): **273**
 Corrected Average (mm Hg): **725**
 Average Temp. (deg K): **273**

Calibration Orifice

Make: **Tisch**
 Model: **TE-5028**
 Serial#: **3662**

Qstd Slope: **1.68695**
 Qstd Intercept: **-0.04137**
 Date Certified: **11-Oct-23**

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	3.26	1.117	48.0	48.98	Slope: 38.9205
2	2.13	0.907	40.0	40.82	Intercept: 5.2799
3	2.49	0.979	42.0	42.86	Corr. Coeff: 0.9931
4	2.65	1.009	44.0	44.90	
5	3.03	1.077	46.0	46.94	# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0
Average Flow Calculation m3/min
 1.017963499
Average Flow Calculation in CFM
 35.94429115
Sample Time (Hrs): 24.0
Total Flow in m3/min
 1465.867439
Total Flow in CFM
 51759.77926

NOTE: Ensure calibration orifice has been certified within 12 months of use

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 79407

Date: 2024-01-03 Time: 0905 deltaCal® S/N: 172457

Tech: RL/HJ

Leak Test

Pass x Fail _____

Flow Rate – Lpm

Sampler: 16.7

deltaCal®: "under"

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = \text{N/A}$

Allowed diff. = 4%; Pass _____ Fail x

Recalibrated to 16.7 in lab.
Set up at Northwest Station
and verified again. See attached.

Ambient Temp. - °C

Sampler: 20.7

deltaCal®: 20.9

Allowed diff. = $\pm 2^\circ\text{C}$; Pass x Fail _____

Barometric Pressure – mm of Hg

Sampler: 733

deltaCal®: 734

Allowed diff. = ± 10 mm; Pass x Fail _____

Filter Temp. °C

Sampler: 20.4

deltaCal®: 21.0

Allowed diff. = $\pm 2^\circ\text{C}$; Pass x Fail _____

Audited Instrument:

Station: NW Make/Model: PQ200 S/N: 79407
Date: 20240301 Time: 1100 deltaCal® S/N: 172457
Tech: RL/HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.7

deltaCal®: 16.49

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: -8.5

deltaCal®: -8.0

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 732

deltaCal®: 732

Allowed diff. = ± 10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: -8.5

deltaCal®: -8.1

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Audited Instrument:

Station: South Make/Model: PQ200 S/N: 1751

Date: 2024/01/30 Time: 10:00 deltaCal® S/N: 172457

Tech: CC

Leak Test

Pass X Fail _____

Flow Rate – Lpm

Sampler: ~~16.61~~ 16.70

deltaCal®: 16.61

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = -0.54$

Allowed diff. = 4%; Pass X Fail _____

Ambient Temp. - °C

Sampler: 0.1

deltaCal®: 0.2

Allowed diff. = $\pm 2^\circ\text{C}$; Pass X 0.1 Fail _____

Barometric Pressure – mm of Hg

Sampler: 726

deltaCal®: 729.5 3.5

Allowed diff. = ± 10 mm; Pass X Fail _____

Filter Temp. °C

Sampler: -0.1

deltaCal®: -0.2

Allowed diff. = $\pm 2^\circ\text{C}$; Pass X 0.1 Fail _____

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 79407

Date: 2021/01/30 Time: 10:30 deltaCal[®] S/N: 172457

Tech: CC

Leak Test

Pass 2 Fail

Flow Rate – Lpm

Sampler: 16.7

deltaCal[®]: 16.67

-0.18

% diff. = [(deltaCal[®]-sampler)/deltaCal[®]] x 100 =

Allowed diff. = 4%; Pass X Fail

Ambient Temp. - °C

Sampler: -0.2

deltaCal[®]: -0.1

0.1

Allowed diff. = ±2°C; Pass X Fail

Barometric Pressure – mm of Hg

Sampler: 729

deltaCal[®]: 730

Allowed diff. = ±10 mm; Pass X Fail

Filter Temp. °C

Sampler: -0.2

deltaCal[®]: -0.1

0.1

Allowed diff. = ± 2°C; Pass X Fail

Audited Instrument:

Station: North Make/Model: PQ200 S/N: 1752
 Date: 2024-02-01 Time: 13:11 deltaCal[®] S/N: 172457
 Tech: RL

Leak Test

Pass X Fail _____

Flow Rate – Lpm

Sampler: 15.00
 deltaCal[®]: 14.97

$$\% \text{ diff.} = [(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 = -0.200$$

Allowed diff. = 4%; Pass _____ Fail X

Recalibrated to 16.7 @ 133G.

Sampler: 16.7
 deltaCal: 16.68
 % diff = -0.12
 PASS

Ambient Temp. - °C

Sampler: 1.4
 deltaCal[®]: 2.2

Allowed diff. = ±2°C; Pass X Fail _____

Barometric Pressure – mm of Hg

Sampler: 728
 deltaCal[®]: 729.5

Allowed diff. = ±10 mm; Pass X Fail _____

Filter Temp. °C

Sampler: 3.0
 deltaCal[®]: 2.2

Allowed diff. = ± 2°C; Pass X Fail _____

Audited Instrument:

Station: North Make/Model: PQ 200 S/N: 1752
 Date: 2024-01-30 Time: 09:08 deltaCal® S/N: 172457
 Tech: EO

Leak Test

Pass passed Fail _____

initial 109cm final 107cm

Flow Rate - Lpm

Sampler: 16.7

deltaCal®: under

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass _____ Fail X

When trying to calibrate
 the lower limit of 15.0 lpm
 the delta Cal wasn't getting up
 to flow??

Ambient Temp. - °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Barometric Pressure - mm of Hg

Sampler: _____

deltaCal®: _____

Allowed diff. = ± 10 mm; Pass _____ Fail _____

Filter Temp. °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 79407

Date: 2024-03-02 Time: 11:26 deltaCal® S/N: 172457

Tech: HJ/RL

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.71

deltaCal®: 16.88

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: -0.4

deltaCal®: -0.3

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 727

deltaCal®: 728.4

Allowed diff. = ± 10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: -0.6

deltaCal®: 0.1

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Audited Instrument:

Station: South Make/Model: PQ200 S/N: SN 1751
 Date: 2024-03-02 Time: 10:56 deltaCal[®] S/N: 172457
 Tech: RL/HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.70

deltaCal[®]: 16.69

% diff. = $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 =$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: -0.1

deltaCal[®]: -0

Allowed diff. = $\pm 2^{\circ}\text{C}$; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 725

deltaCal[®]: 727.9

Allowed diff. = ± 10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: 0.4

deltaCal[®]: 0.0

Allowed diff. = $\pm 2^{\circ}\text{C}$; Pass ☒ Fail ☐

Audited Instrument:

Station: North Make/Model: PQ200 S/N: SN1752
 Date: 2024-03-02 Time: 10:25 deltaCal® S/N: S/N172457
 Tech: HJ/RL

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.75

deltaCal®: 16.93

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 1\%$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: -0.4

deltaCal®: -0.3

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 725

deltaCal®: 726.9

Allowed diff. = ± 10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: 0.1

deltaCal®: 0.1

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 79407
 Date: 2024-03-30 Time: 12:35 deltaCal® S/N: 172457
 Tech: RL/HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate - Lpm

Sampler: 16.71

deltaCal®: 16.81

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.5\%$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: 1.7

deltaCal®: 0.9

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Barometric Pressure - mm of Hg

Sampler: 72.7

deltaCal®: 72.8

Allowed diff. = ± 10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: 1.3

deltaCal®: 1.3

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Audited Instrument:

Station: South Make/Model: PQ200 S/N: 1751
 Date: 2024-03-30 Time: 11:55 deltaCal® S/N: 172457
 Tech: RL/HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.70

deltaCal®: 16.56

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.8\%$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: 1.8°C

deltaCal®: 1.9°C

Allowed diff. = ±2°C; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 724

deltaCal®: 727.5

Allowed diff. = ±10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: 1.9

deltaCal®: 2.1

Allowed diff. = ± 2°C; Pass ☒ Fail ☐

Audited Instrument:

Station: North Make/Model: PQ200 S/N: SN 1752

Date: 30/03/2024 Time: 10:30 deltaCal® S/N: 172457

Tech: RL/HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.72

deltaCal®: 16.76

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.2\%$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: 0.3 °C

deltaCal®: 1.4 °C

Allowed diff. = ±2°C; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 724

deltaCal®: 726

Allowed diff. = ±10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: 0.8

deltaCal®: 1.2

Allowed diff. = ± 2°C; Pass ☒ Fail ☐

APPENDIX E: SAMPLE EDIT LOGS

APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned
Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol)

Sampler Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason
1			



Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason

Address: Rainy River Mine

Station Name: North (Gallinger Road)

Station Location: North of the Site at Gallinger Road

Measurement Instrument: High Volume (Hi-Vol)

Sampler Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason
1			
2			

APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Respirable Particulate Matter (PM_{2.5})

Measurement Instrument: PQ200 Sampler

Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason
2	Invalid Sample	Jan 31&13 March	Sample volume was below the lower volume limit

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North-east of the Site along Gallinger Road

Pollutant/Parameter: Respirable Particulate Matter (PM_{2.5})

Measurement Instrument: PQ200 Sampler

Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason
1		Jan 1	Sample volume was not recorded, sampler under maintenance

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Respirable Particulate Matter (PM_{2.5})

Measurement Instrument: PQ200 Sampler

Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason

APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Dustfall

Measurement Instrument: Passive Sampler Jar

Start Date: January 1, 2024

End Date: March 31, 2024

#	Action	Date	Reason



NEW GOLD INC.
RAINY RIVER MINE

AMBIENT AIR QUALITY MONITORING PROGRAM
SECOND QUARTER 2024 REPORT

AUGUST 2024

ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	Microgram per Cubic Metre
AAQC	Ambient Air Quality Criteria
AAQO	Alberta Ambient Air Quality Objectives
ACFM	Cubic Feet Per Minute at Actual Conditions
AEP	Alberta Environment and Parks
ASTM	American Society for Testing and Materials
BCMOE	British Columbia Ministry of the Environment
CAAQS	Canadian Ambient Air Quality Standards
CFM	Cubic Foot Per Minute
Hi-Vol	High Volume Sampler
ICP/AES	Inductively Coupled Plasma / Atomic Emission Spectroscopy
ICP/MS	Inductively Coupled Plasma / Mass Spectrometry
LPM	Litres Per Minute
MECP	Ministry of the Environment, Conservation and Parks
NIST	National Institute of Standards and Technology
NO_2	Nitrogen Dioxide
$\text{PM}_{2.5}$	Particulate Matter less than 2.5 microns (μm) in diameter
POI	Point of Impingement
SO_2	Sulphur Dioxide
TSP	Total Suspended Particulate
U.S. EPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator

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Section 1. INTRODUCTION

The following is a summary of the Second Quarter 2024 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
 - Number of Valid Samples and Percent Valid Data
 - Arithmetic and Geometric Means
 - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM_{2.5});
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO₂) and sulphur dioxide (SO₂).

Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

Table 2-1. Ambient Air Monitoring Stations

Station	UTM Co-ordinates			Parameters Monitored
	Easting (m)	Northing (m)	Zone	
Tait Road (Southwest Station)	426 072	5 406 996	15	TSP, Metals, PM _{2.5} , Dustfall, NO ₂ , SO ₂
Gallinger Road (Northeast Station)	431 133	5 410 534	15	TSP, Metals, PM _{2.5} , Dustfall, NO ₂ , SO ₂
Northwest Station (TMA)	419 797	5 413 042	15	TSP, Metals, PM _{2.5} , Dustfall

2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.

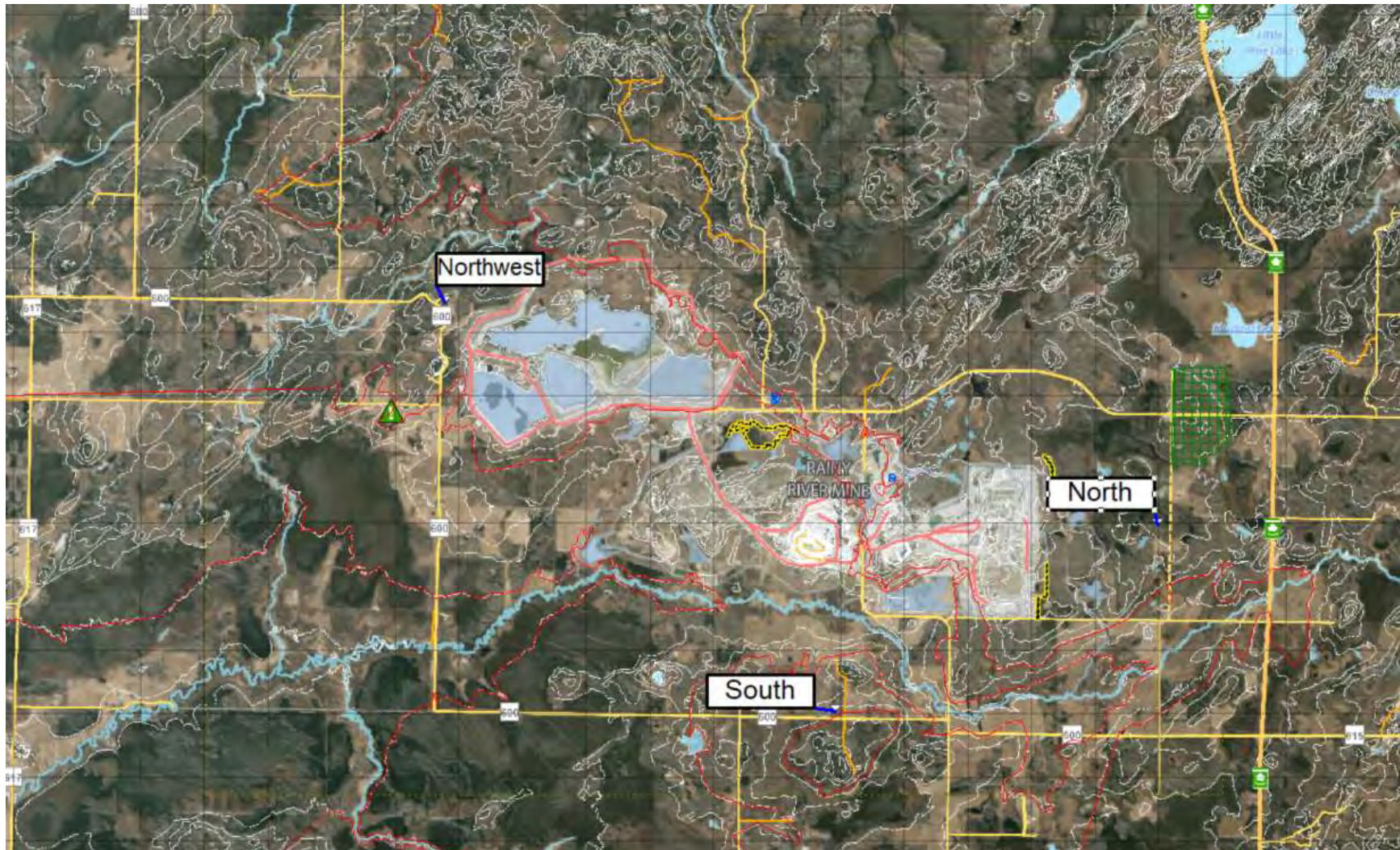


Figure 2-1. Ambient Air Monitoring Station Locations



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



Figure 2-4. Tait Road Station Detailed View



Figure 2-5. Northwest Station Siting

Section 3. ANALYTICAL METHODS

3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6th) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms (μg). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres (m^3). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

3.2 RESPIRABLE PARTICULATE MATTER ($\text{PM}_{2.5}$)

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$ concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring $\text{PM}_{2.5}$ in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of $\text{PM}_{2.5}$ on the (μg). Based on a valid 24-hour sample volume Teflon filter is 15 micrograms ranging between 21.6 and 26.4 m^3 , the MDL for $\text{PM}_{2.5}$ ranges between 0.9 and 16.7 $\mu\text{g}/\text{m}^3$.

Total sample volume is recorded mechanically by the PQ200 Samplers.

RAINY RIVER MINE

3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimetre (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ($\text{g/m}^2/30 \text{ days}$).

3.4 PASSIVE SAMPLING FOR SO_2 AND NO_2

Sulphur dioxide (SO_2) and nitrogen dioxide (NO_2) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of NO_2 or SO_2 , sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both SO_2 and NO_2 , the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of SO_2 or NO_2 obtained from passive sampling, this data is used solely for screening purposes.

RAINY RIVER MINE

For NO₂, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m³) converted to an equivalent 30-day (720-hour) average (78 µg/m³) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO₂, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m³ (Alberta Environment and Parks, 2019).

Section 4. MONITORING METHODS

4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM_{2.5}. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m³ in a 24-hour period.

For PQ200 samplers are calibrated annually, or if the verification indicates they are running outside of the intended flow rate by 4% or more. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m³ in a 24-hour period.

Table 4-1 below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly.

Table 4-1. Sampler Calibration Dates

Station	Hi-Vol Sampler Calibration Date	PQ200 Sampler Calibration Date
Tait Road (South Station)	2024-07-18	N/A
Gallinger Road (North Station)	2024-07-18	N/A
Northwest Station (TMA)	2024-07-18	N/A

4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algaecide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

Section 5. SAMPLING ISSUES

5.1 PERFORMANCE AND SITE AUDITS

Table 5-1. Performance and Site Audits

Audit Date	Station	Contaminant(s)	Type of Audit
June 20, 2024	South	PM2.5, TSP, Dustfall	Semi-Annual Audit
June 20, 2024	North	PM2.5, TSP, Dustfall	Semi-Annual Audit
June 24, 2024	Tait	PM2.5, TSP	Particulate Matter Performance Audit
June 24, 2024	Tait	Dustfall	Dustfall Site Audit
June 24, 2024	North	PM2.5, TSP	Particulate Matter Performance Audit
June 24, 2024	North	Dustfall	Dustfall Site Audit
June 24, 2024	N/A	N/A	Wind Speed and Direction Site Audit

5.2 EQUIPMENT AND SAMPLING ISSUES

There were four (4) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

Table 5-2. Q2 Invalidated Samples

Sample Date	Station	Contaminant	Reasoning
April 18, 2024	South	TSP	Sample volume was below the lower volume limit
April 30, 2024	South	TSP	Sample volume was below the lower volume limit
May 12, 2024	Northwest	TSP	Sample volume was below the lower volume limit
June 17, 2024	North	PM2.5	Sample volume was not recorded

Section 6. SAMPLING RESULTS

Sampling results for Q2 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM_{2.5}, **Section 6.3** and **Appendices A-2** and **A-3** for total dust fall, and **Section 6.4** and **Appendix A-4** for passive SO₂ and NO₂.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q2 are provided in **Appendix C**.

For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q2 presented fifteen (15) possible sampling days between April 6, 2024, and June 29, 2024, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM_{2.5} are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO₂ and NO₂ are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

6.1 TSP AND METALS

In this quarter, the Tait Road Station collected thirteen (13) valid samples (87% valid data), Northwest station collected fourteen (14) valid samples (93% valid data) and Gallinger Road Station collected fifteen (15) valid samples (100% valid data).

For this quarter, the arithmetic mean of TSP concentration was 39.21 µg/m³ at the Tait Road Station, 28.43 µg/m³ at the Gallinger Road Station, and 45.53 µg/m³ at the Northwest Station. Geometric means for the three stations were 31.60 µg/m³, 22.09 µg/m³, and 33.90 µg/m³, respectively.

The maximum 24-hour concentration for TSP was 113.69 µg/m³ at the Tait Road Station on May 12th, 58.90 µg/m³ at the Gallinger Road Station on May 18th, and 148.03 µg/m³ at the Northwest Station on May 6th, 2024.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there were no exceedances observed.

Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

Table 6-1. TSP Summary Statistics. Concentrations presented in $\mu\text{g}/\text{m}^3$.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	13	15	14
% Valid Data	87%	100%	93%
Arithmetic Mean	39.21	28.43	45.53
Geometric Mean	31.60	22.09	33.90
24-Hour Maximum	113.69	58.90	148.03
24-Hour Minimum	10.71	6.18	8.86
April Maximum	34.51	11.72	97.61
May Maximum	113.69	58.90	148.03
June Maximum	47.25	47.17	39.07
90 th Percentile	64.16	54.89	90.05
95 th Percentile	81.47	56.74	112.74
TSP AAQC	120	120	120
Samples > TSP AAQC	0	0	1
Samples > Metal AAQC	0	0	0

Table 6-2. Maximum Concentrations of Metals. Concentrations presented in $\mu\text{g}/\text{m}^3$.

Metal	24-Hour AAQC	Tait Road Station		Gallinger Road Station		Northwest Station	
		Maximum Concentration	Fraction of AAQC	Maximum Concentration	Fraction of AAQC	Maximum Concentration	Fraction of AAQC
As	0.3	1.06E-03	0.35%	9.71E-04	0.32%	2.48E-03	0.83%
Cd	0.025	7.06E-04	2.82%	6.47E-04	2.59%	7.22E-04	2.89%
Cr	0.5	1.76E-03	0.35%	1.62E-03	0.32%	2.52E-02	5.05%
Co	0.1	1.24E-03	1.24%	6.47E-04	0.65%	2.28E-03	2.28%
Cu	50	9.99E-02	0.20%	1.61E-01	0.23%	2.42E-01	0.48%
Fe	4	1.88E+00	46.91%	7.44E-01	18.59%	5.52E+00	137.92%
Pb	0.5	3.52E-03	0.70%	2.51E-03	0.50%	3.06E-03	0.61%
Mn	0.4	4.75E-02	11.87%	3.61E-02	9.02%	1.41E-01	35.21%
Ni	0.2	2.35E-03	1.18%	9.71E-04	0.49%	1.23E-02	6.16%
Se	10	3.53E-03	0.04%	3.24E-03	0.03%	3.61E-03	0.04%
V	2	3.22E-03	0.16%	1.62E-03	0.08%	1.01E-02	0.51%
Zn	120	3.45E-02	0.03%	2.75E-02	0.02%	4.17E-02	0.03%

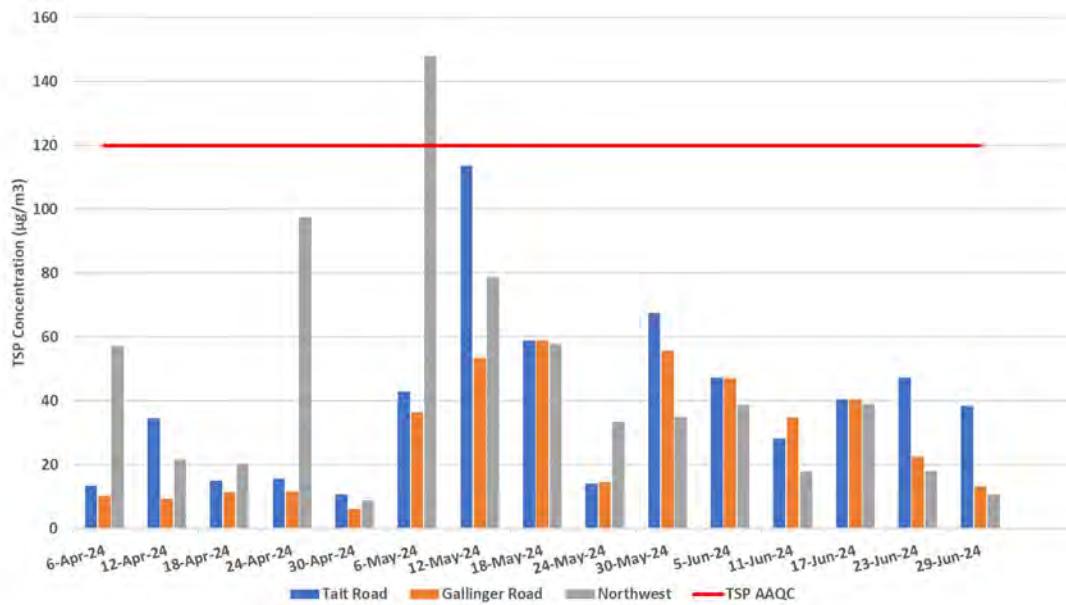


Figure 6-1. TSP Sampling Results

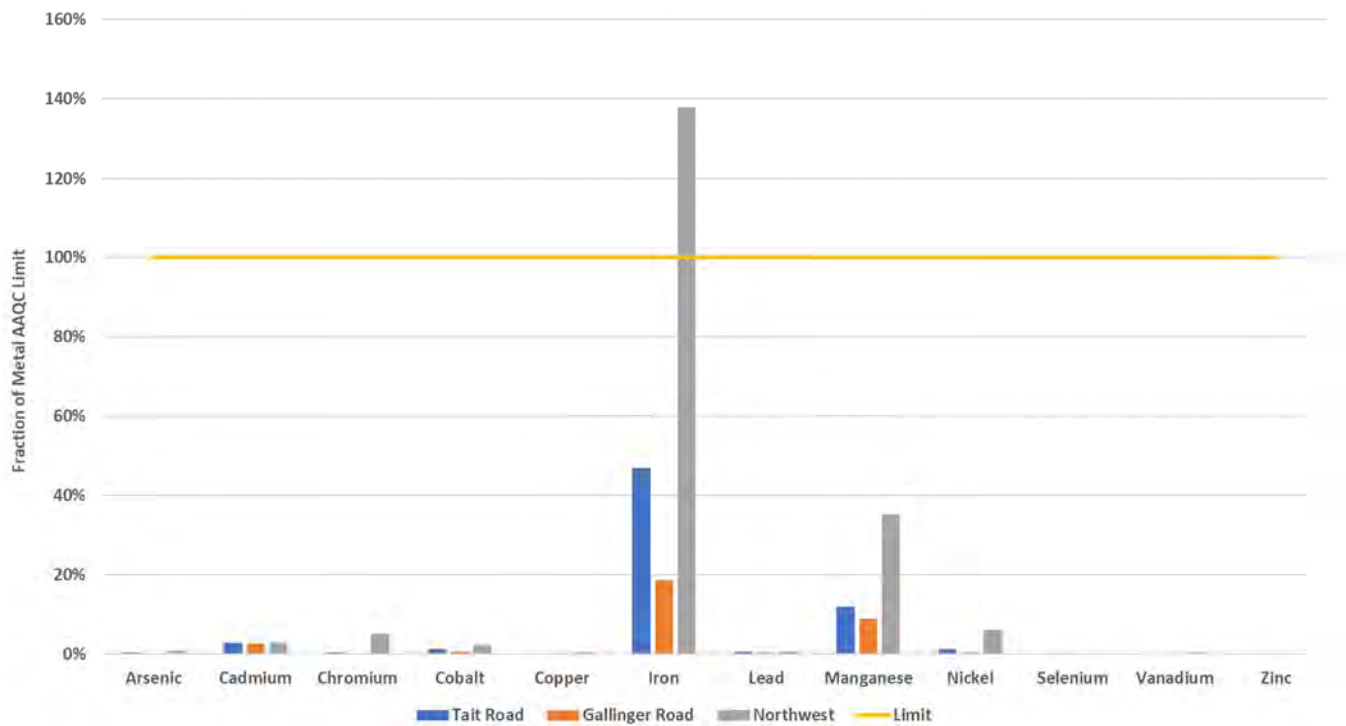


Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC

6.2 PM_{2.5}

In this quarter, Northwest Station and the Tait Road Station collected fifteen (15) valid samples, which represents 100% valid data. Gallinger Road Station collected fourteen (14) valid samples which represent 93% valid data.

For this quarter, the arithmetic mean for the PM_{2.5} concentrations were 3.20 µg/m³, 3.22 µg/m³, and 3.96 µg/m³ for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM_{2.5} were 25.75 µg/m³ at the Tait Road Station on May 12th, 24.14 µg/m³ at the Gallinger Road Station on May 12th, and 25.99 µg/m³ at the Northwest Station on May 12th, 2024.

Laboratory data is provided as the mass of PM_{2.5} on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM_{2.5} in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was no exceedance for PM_{2.5}.

Data is summarized for PM_{2.5} in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

Table 6-3. PM_{2.5} Summary Statistics. Concentrations presented in µg/m³.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	15	14	15
% Valid Data	100%	94%	100%
Arithmetic Mean	3.20	3.22	3.96
Geometric Mean	1.70	1.52	2.32
24-Hour Maximum	25.75	24.14	25.99
24-Hour Minimum	0.31	0.31	0.31
April Maximum	2.58	3.87	4.78
May Maximum	25.75	24.14	25.99
June Maximum	2.54	2.50	3.08
90 th Percentile	2.56	3.50	4.45
95 th Percentile	9.53	10.96	11.24
PM _{2.5} AAQC	27	27	27

	Tait Road Station	Gallinger Road Station	Northwest Station
Samples > PM _{2.5} AAQC	0	0	0
MDL (µg)	15	15	15
Samples < MDL	1	3	1

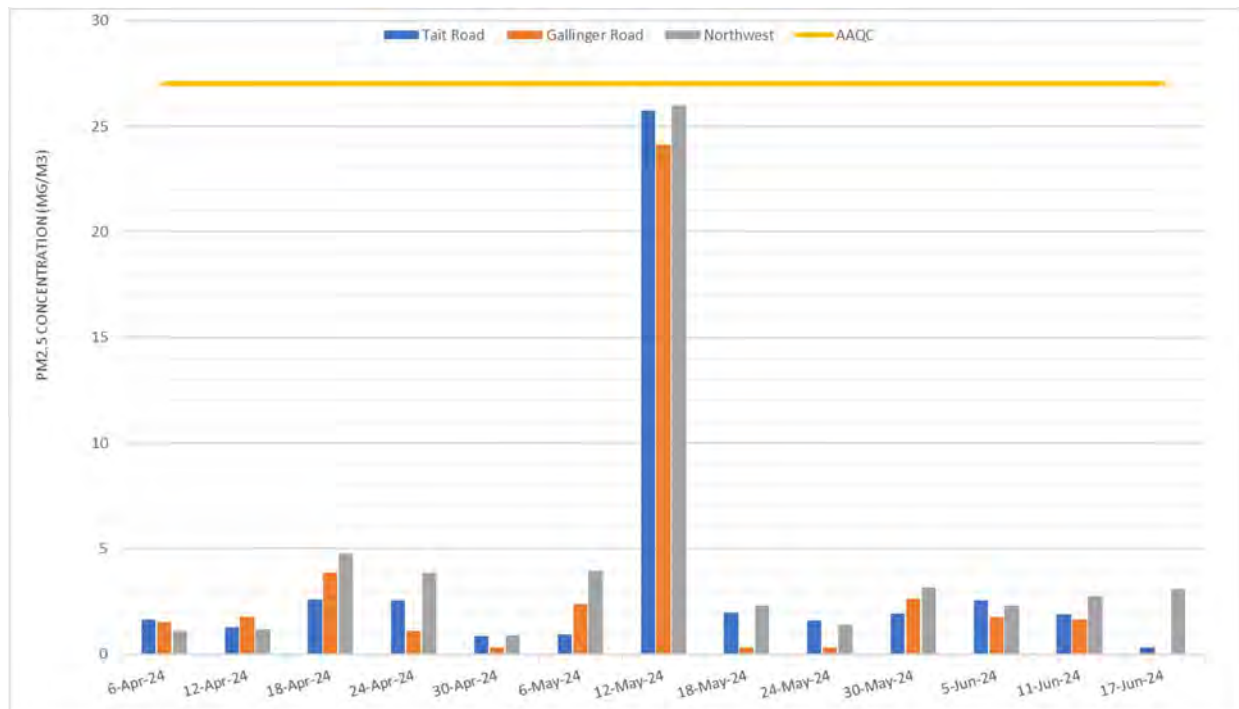


Figure 6-3. PM_{2.5} Sampling Results

6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration} \left(\frac{g}{m^2 \cdot 30 \text{ days}} \right) = \text{Lab Concentration} \left(\frac{mg}{dm^2 \cdot \text{day}} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total

dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there were no exceedances for the total dustfall 30-day Ontario AAQC (7 g/m²/30 days).

Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

Table 6-4. Total Dustfall Summary Statistics.
Concentrations presented in g/m²/30 days.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	3	3	3
% Valid Data	100%	100%	100%
Arithmetic Mean	4.06	8.26	1.37
Monthly Maximum	8.31	11.16	1.68
Dustfall AAQC	7	7	7
Samples > Dustfall AAQC	1	2	0
Samples < MDL	0	0	0

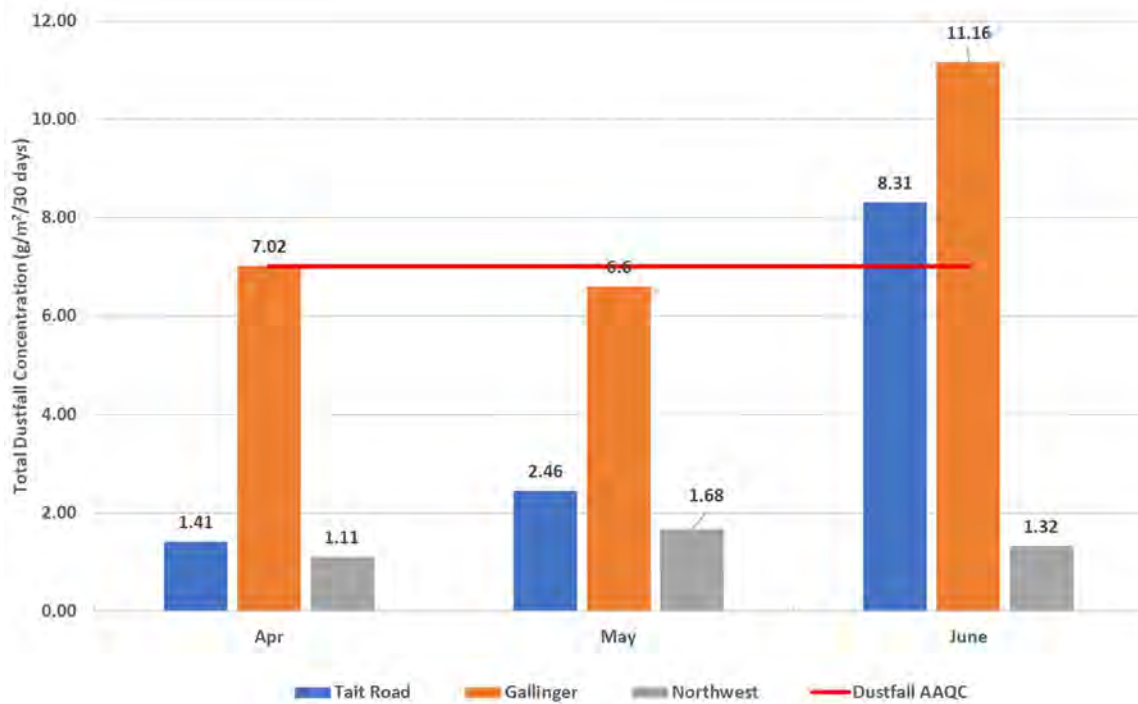


Figure 6-3. Total Dustfall Sampling Results at POI Stations



Figure 6-4. Fixed Dustfall Sampling Results at POI Stations

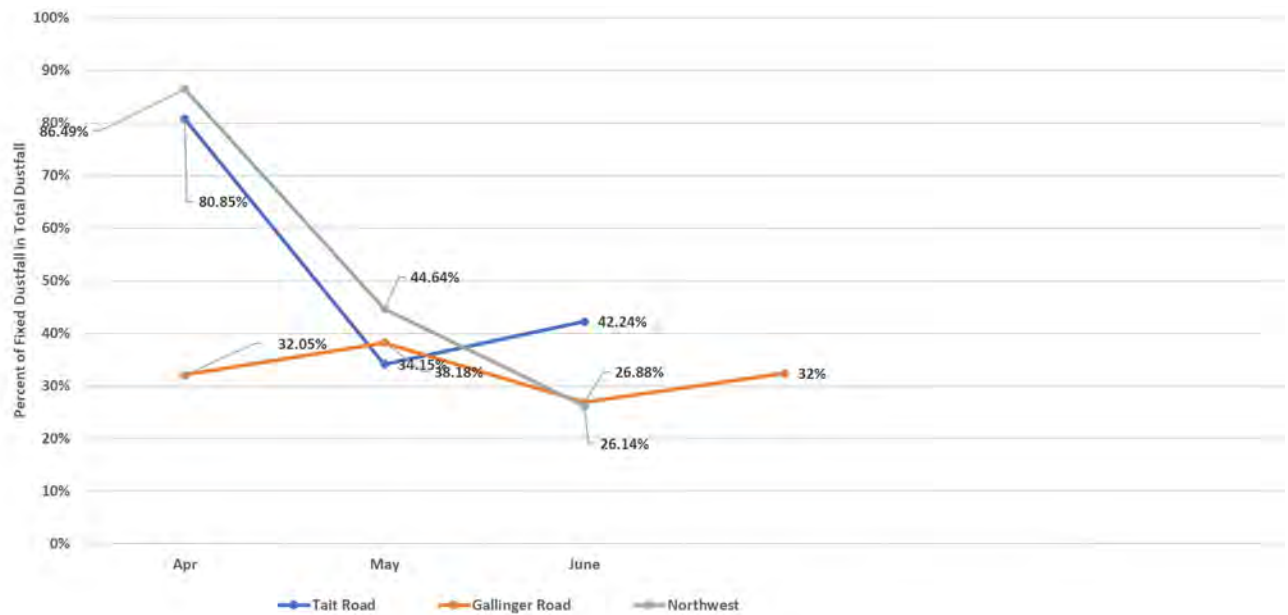


Figure 6-5. Percent of Fixed Dustfall in Total Dustfall

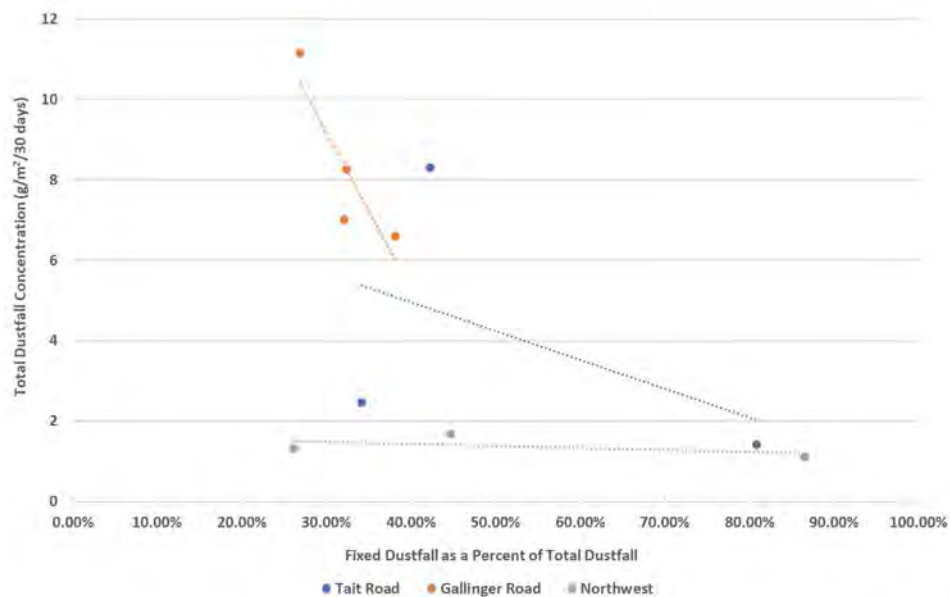


Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration

6.4 PASSIVE SO₂ AND NO₂

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO₂ or NO₂ for a 30-day averaging period. Instead, the 30-day measured average SO₂ or NO₂ concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO₂, the monthly results are compared against Ontario's 24-hour NO₂ AAQC (200 µg/m³) converted to an equivalent 30-day average (78 µg/m³) using the methodology outlined in Table 7-1 of the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (2019).

For SO₂, the monthly results are compared against Alberta's 30-day SO₂ Ambient Air Quality Objective (AAQO) of 30 µg/m³ (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO₂ concentration was 0.57 µg/m³ at the Tait Road and 0.26 µg/m³ at the Gallinger Road Stations. The arithmetic mean NO₂ concentrations were 1.00 µg/m³ and 0.63 µg/m³ at the Tait Road and Gallinger Road Stations, respectively.

The maximum monthly concentrations of SO₂ were 1.05 µg/m³ for the Tait Road and 0.52 µg/m³ for the Gallinger Road stations in month of June. The maximum monthly concentration of NO₂ was 1.32 µg/m³ at the Tait Road in the month of April and 0.75 µg/m³ at the Gallinger Road Stations in the months of April and June.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration (}\mu\text{g/m}^3\text{)} = \text{Lab Concentration (ppbv)} \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

In this quarter, there were no samples that exceeded the converted 24-hour NO₂ Ontario AAQC (78 µg/m³), and no samples that exceeded the 30-day Alberta SO₂ AAQO (30 µg/m³).

Data is summarized for SO₂ and NO₂ in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

Table 6-5: Summary Statistics for SO₂ and NO₂.
Concentrations presented in µg/m³.

	Tait Road Station		Gallinger Road Station	
	SO ₂	NO ₂	SO ₂	NO ₂
Number of Valid Samples	3	3	3	3
% Valid Data	100%	100%	100%	100%
Arithmetic Mean	0.57	1.00	0.26	0.63
Monthly Maximum	1.05	1.32	0.52	0.75
Limit	30	78	30	78

	Tait Road Station		Gallinger Road Station	
	SO ₂	NO ₂	SO ₂	NO ₂
Samples > Limit	0	0	0	0
MDL	0.26	0.19	0.26	0.19
Samples < MDL	1	0	2	0

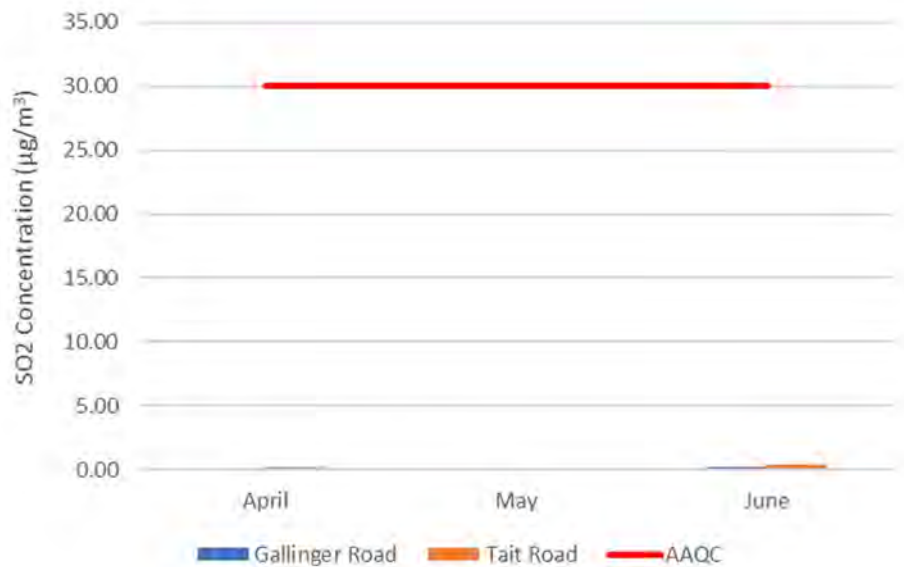


Figure 6-5. SO₂ Monitoring Results

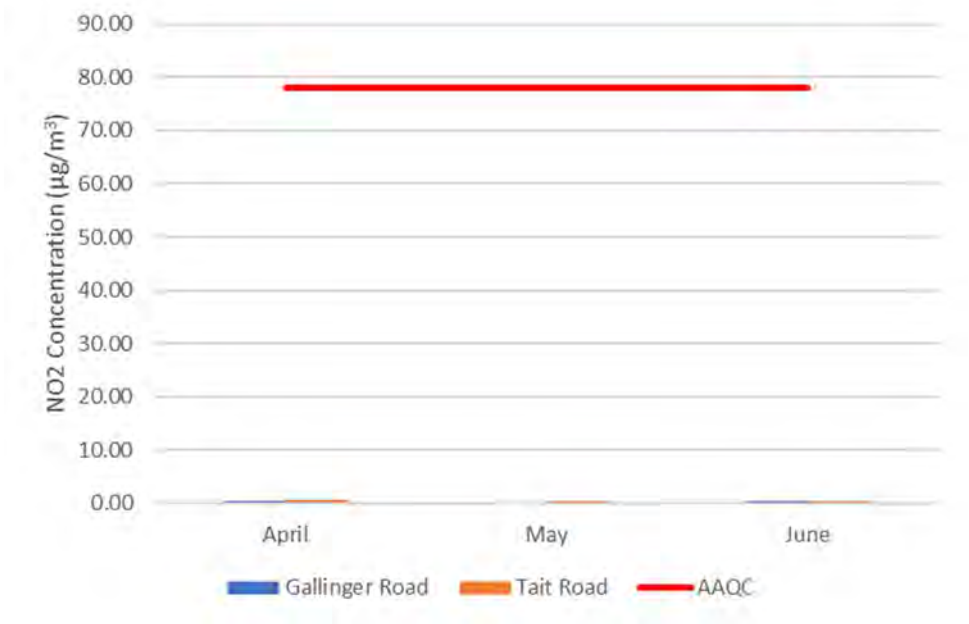


Figure 6-8. NO₂ Monitoring Results

Section 7. MITIGATION MEASURES

No mitigation measures have been implemented at this time.

Section 8. CONCLUSION

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the second quarter of 2024 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECF Program Approval Letter.

Samples were taken every sixth (6th) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM_{2.5}). Samples were taken monthly for total dustfall, sulphur dioxide (SO₂), and nitrogen dioxide (NO₂).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

There were two (2) exceedances for Metals - Iron at the Tait Road Station on April 24, 2024, and at Northwest Station on May 6th, 2024. There were two (2) exceedances for Total dustfall at Gallinger Road station in the months of April and June and one (1) exceedance in the month of June at the Tait Road station. There was one (1) exceedance for TSP at Northwest station on May 6th, 2024.

Section 9. REFERENCES

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Section 10. CLOSING

The *Rainy River Mine Ambient Air Quality Monitoring Program Second Quarter 2024 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:



Garnet Cornell

Environment Manager

APPENDIX A: SAMPLING RESULTS

Appendix A-1 TSP, Metals, and PM_{2.5} Sampling Results

Appendix A-2 Total Dustfall Sampling Results

Appendix A-3 SO₂ and NO₂ Passive Sampling Results

APPENDIX A-1: TSP, METALS, AND PM_{2.5} SAMPLING RESULTS

Tait Road Station Monitoring Results														
(Concentrations expressed in µg/m ³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
6-Apr-24	13.34	9.48E-04	6.32E-04	1.58E-03	6.32E-04	4.64E-02	3.27E-01	9.48E-04	8.35E-03	9.48E-04	3.16E-03	1.58E-03	6.51E-03	1.62
12-Apr-24	34.51	9.28E-04	6.18E-04	1.55E-03	6.18E-04	8.22E-02	8.16E-01	2.04E-03	2.53E-02	9.28E-04	3.09E-03	1.55E-03	1.97E-02	1.25
18-Apr-24														2.58
24-Apr-24	15.74	9.40E-04	6.27E-04	1.57E-03	6.27E-04	8.34E-02	6.01E-01	9.40E-04	1.28E-02	9.40E-04	3.13E-03	1.57E-03	9.84E-03	2.54
30-Apr-24														0.83
6-May-24	42.93	9.76E-04	6.50E-04	1.63E-03	6.50E-04	7.48E-02	1.42E+00	9.76E-04	3.43E-02	2.08E-03	3.25E-03	1.63E-03	1.46E-02	0.92
12-May-24	113.69	9.42E-04	6.28E-04	1.57E-03	6.28E-04	6.85E-02	4.89E-01	9.42E-04	4.75E-02	9.42E-04	3.14E-03	1.57E-03	3.45E-02	25.75
18-May-24	58.90	9.30E-04	6.20E-04	1.55E-03	6.20E-04	3.27E-02	7.75E-01	9.30E-04	2.79E-02	9.30E-04	3.10E-03	1.55E-03	8.99E-03	1.96
24-May-24	14.14	9.26E-04	6.17E-04	1.54E-03	6.17E-04	5.31E-02	1.36E-01	9.26E-04	4.32E-03	9.26E-04	3.09E-03	1.54E-03	3.40E-03	1.58
30-May-24	67.67	9.14E-04	6.10E-04	1.52E-03	6.10E-04	4.99E-02	1.17E+00	9.14E-04	2.85E-02	9.14E-04	3.05E-03	1.52E-03	9.08E-03	1.92
5-Jun-24	47.21	8.96E-04	5.98E-04	1.49E-03	5.98E-04	4.60E-02	9.74E-01	8.96E-04	2.96E-02	8.96E-04	2.99E-03	1.49E-03	9.26E-03	2.54
11-Jun-24	28.23	8.99E-04	5.99E-04	1.50E-03	5.99E-04	7.55E-02	6.59E-01	8.99E-04	1.86E-02	8.99E-04	3.00E-03	1.50E-03	1.16E-02	1.87
17-Jun-24	40.47	9.25E-04	6.17E-04	1.54E-03	6.17E-04	9.99E-02	8.88E-01	9.25E-04	2.25E-02	9.25E-04	3.08E-03	1.54E-03	1.61E-02	0.31
23-Jun-24	47.25	9.29E-04	6.19E-04	1.55E-03	1.24E-03	9.72E-02	1.88E+00	9.29E-04	3.65E-02	2.35E-03	3.10E-03	3.22E-03	9.91E-03	1.66
29-Jun-24	38.35	9.26E-04	6.18E-04	1.54E-03	6.18E-04	8.52E-02	7.78E-01	3.52E-03	2.81E-02	9.26E-04	3.09E-03	1.54E-03	1.88E-02	0.75
Arithmetic Mean	43.26	9.29E-04	6.20E-04	1.55E-03	6.07E-04	6.88E-02	8.39E-01	1.21E-03	2.49E-02	1.12E-03	3.10E-03	1.68E-03	1.33E-02	3.20
Geometric Mean	36.37	9.29E-04	6.19E-04	1.55E-03	6.53E-04	6.55E-02	7.09E-01	1.09E-03	2.14E-02	1.06E-03	3.10E-03	1.64E-03	1.14E-02	1.70
Max Sample	113.69	9.76E-04	6.50E-04	1.63E-03	1.24E-03	9.99E-02	1.88E+00	3.52E-03	4.75E-02	2.35E-03	3.25E-03	3.22E-03	3.45E-02	25.75
Min Sample	13.34	8.96E-04	5.98E-04	1.49E-03	5.98E-04	3.27E-02	1.36E-01	8.96E-04	4.32E-03	8.96E-04	2.99E-03	1.49E-03	3.40E-03	0.31
AAQC Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > AAQC Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. Valid Samples	13	13	13	13	13	13	13	13	13	13	13	13	13	15
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	13	13	8	10	0	0	11	0	11	13	9	0	1
% of Valid Samples	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	100%

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

Gallinger Road Station Monitoring Results (North)														
(concentrations expressed in µg/m ³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
6-Apr-24	10.23	9.02E-04	6.02E-04	1.50E-03	6.02E-04	5.99E-02	2.32E-01	9.02E-04	5.29E-03	9.02E-04	3.01E-03	1.50E-03	5.78E-03	1.50
12-Apr-24	9.34	9.16E-04	6.11E-04	1.53E-03	6.11E-04	9.89E-02	7.75E-02	9.16E-04	2.63E-03	9.16E-04	3.05E-03	1.53E-03	4.27E-03	1.75
18-Apr-24	11.30	8.69E-04	5.79E-04	1.45E-03	5.79E-04	3.78E-02	1.51E-01	8.69E-04	5.68E-03	8.69E-04	2.90E-03	1.45E-03	4.00E-03	3.87
24-Apr-24	11.72	9.71E-04	6.47E-04	1.62E-03	6.47E-04	1.04E-01	1.97E-01	9.71E-04	6.15E-03	9.71E-04	3.24E-03	1.62E-03	6.34E-03	1.08
30-Apr-24	6.18	8.91E-04	5.94E-04	1.48E-03	5.94E-04	7.96E-02	7.54E-02	8.91E-04	2.67E-03	8.91E-04	2.97E-03	1.48E-03	1.48E-03	0.31
6-May-24	36.43	9.45E-04	6.30E-04	1.58E-03	6.30E-04	7.94E-02	7.44E-01	9.45E-04	2.27E-02	9.45E-04	3.15E-03	1.58E-03	1.56E-02	2.37
12-May-24	53.51	8.90E-04	5.93E-04	1.48E-03	5.93E-04	6.94E-02	2.21E-01	8.90E-04	3.61E-02	8.90E-04	2.97E-03	1.48E-03	2.75E-02	24.14
18-May-24	58.90	9.23E-04	6.16E-04	1.54E-03	6.16E-04	3.77E-02	5.74E-01	9.23E-04	2.44E-02	9.23E-04	3.08E-03	1.54E-03	1.15E-02	0.31
24-May-24	14.50	9.10E-04	6.07E-04	1.52E-03	6.07E-04	4.83E-02	9.64E-02	9.10E-04	3.58E-03	9.10E-04	3.03E-03	1.52E-03	4.85E-03	0.31
30-May-24	55.81	9.12E-04	6.08E-04	1.52E-03	6.08E-04	6.87E-02	6.93E-01	9.12E-04	2.32E-02	9.12E-04	3.04E-03	1.52E-03	1.53E-02	2.62
5-Jun-24	47.17	9.47E-04	6.31E-04	1.58E-03	6.31E-04	6.31E-02	6.88E-01	9.47E-04	2.87E-02	9.47E-04	3.16E-03	1.58E-03	2.03E-02	1.75
11-Jun-24	34.88	9.18E-04	6.12E-04	1.53E-03	6.12E-04	1.16E-01	4.93E-01	9.18E-04	2.49E-02	9.18E-04	3.06E-03	1.53E-03	2.67E-02	1.62
17-Jun-24	40.59	9.18E-04	6.12E-04	1.53E-03	6.12E-04	9.00E-02	5.60E-01	2.51E-03	2.44E-02	9.18E-04	3.06E-03	1.53E-03	1.79E-02	
23-Jun-24	22.58	9.13E-04	6.09E-04	1.52E-03	6.09E-04	9.43E-02	4.22E-01	9.13E-04	1.24E-02	9.13E-04	3.04E-03	1.52E-03	1.78E-02	2.50
29-Jun-24	13.27	8.77E-04	5.85E-04	1.46E-03	5.85E-04	9.53E-02	9.01E-02	8.77E-04	3.98E-03	8.77E-04	2.92E-03	1.46E-03	7.66E-03	0.96
Arithmetic Mean	28.43	9.14E-04	6.09E-04	1.52E-03	6.09E-04	7.62E-02	3.54E-01	1.02E-03	1.51E-02	9.14E-04	3.05E-03	1.52E-03	1.25E-02	3.22
Geometric Mean	22.09	9.13E-04	6.09E-04	1.52E-03	6.09E-04	7.22E-02	2.62E-01	9.76E-04	1.04E-02	9.13E-04	3.04E-03	1.52E-03	9.49E-03	1.52
Max Sample	58.90	9.71E-04	6.47E-04	1.62E-03	6.47E-04	1.16E-01	7.44E-01	2.51E-03	3.61E-02	9.71E-04	3.24E-03	1.62E-03	2.75E-02	24.14
Min Sample	6.18	8.69E-04	5.79E-04	1.45E-03	5.79E-04	3.77E-02	7.54E-02	8.69E-04	2.63E-03	8.69E-04	2.90E-03	1.45E-03	1.48E-03	0.31
AAQC Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > AAQC Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. Valid Samples	15	15	15	15	15	15	15	15	15	15	15	15	15	14
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	15	15	15	15	0	0	14	0	15	15	15	0	3
% of Valid Samples	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	93%

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

Northwest Station Monitoring Results														
(concentrations expressed in µg/m³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
6-Apr-24	57.10	9.23E-04	6.15E-04	4.98E-03	6.15E-04	3.91E-02	2.11E+00	2.03E-03	6.12E-02	3.08E-03	3.08E-03	3.69E-03	1.94E-02	1.08
12-Apr-24	21.73	9.47E-04	6.32E-04	1.58E-03	6.32E-04	1.09E-01	6.00E-01	9.47E-04	1.52E-02	9.47E-04	3.16E-03	1.58E-03	8.53E-03	1.16
18-Apr-24	20.19	9.23E-04	6.16E-04	1.54E-03	6.16E-04	4.60E-02	5.02E-01	9.23E-04	1.45E-02	9.23E-04	3.08E-03	1.54E-03	8.31E-03	4.78
24-Apr-24	97.61	1.94E-03	6.06E-04	9.40E-03	1.70E-03	1.21E-01	4.04E+00	3.03E-03	1.22E-01	5.46E-03	3.03E-03	7.21E-03	3.55E-02	3.87
30-Apr-24	8.86	9.17E-04	6.11E-04	1.53E-03	6.11E-04	1.01E-01	1.44E-01	9.17E-04	5.13E-03	9.17E-04	3.06E-03	1.53E-03	7.39E-03	0.87
6-May-24	148.03	2.48E-03	6.52E-04	2.52E-02	2.28E-03	8.28E-02	5.52E+00	3.06E-03	1.41E-01	1.23E-02	3.26E-03	1.01E-02	4.17E-02	3.95
12-May-24														25.99
18-May-24	57.77	9.63E-04	6.42E-04	1.60E-03	6.42E-04	6.21E-02	6.12E-01	9.63E-04	2.92E-02	9.63E-04	3.21E-03	1.60E-03	1.09E-02	2.29
24-May-24	33.46	8.91E-04	5.94E-04	3.74E-03	5.94E-04	4.47E-02	7.37E-01	8.91E-04	1.98E-02	1.90E-03	2.97E-03	1.49E-03	9.03E-03	1.37
30-May-24	34.97	8.82E-04	6.55E-04	1.64E-03	6.55E-04	1.06E-01	3.75E-01	8.82E-04	1.30E-02	8.82E-04	3.27E-03	1.64E-03	9.04E-03	3.16
5-Jun-24	38.72	9.15E-04	6.10E-04	1.52E-03	6.10E-04	1.19E-01	6.22E-01	9.15E-04	2.37E-02	9.15E-04	3.05E-03	1.52E-03	1.20E-02	2.29
11-Jun-24	17.82	9.86E-04	6.57E-04	1.64E-03	6.57E-04	2.42E-01	2.08E-01	9.86E-04	8.22E-03	9.86E-04	3.29E-03	1.64E-03	7.43E-03	2.74
17-Jun-24	39.07	1.01E-03	6.70E-04	1.68E-03	6.70E-04	1.79E-01	8.51E-01	1.01E-03	2.69E-02	1.01E-03	3.35E-03	1.68E-03	1.40E-02	3.08
23-Jun-24	18.07	9.89E-04	6.59E-04	1.65E-03	6.59E-04	1.26E-01	3.06E-01	9.89E-04	7.98E-03	9.89E-04	3.30E-03	1.65E-03	7.45E-03	2.45
29-Jun-24	10.82	9.44E-04	6.29E-04	1.57E-03	6.29E-04	1.48E-01	1.11E-01	9.44E-04	3.65E-03	9.44E-04	3.15E-03	1.57E-03	6.04E-03	0.31
Arithmetic Mean	43.16	1.13E-03	6.32E-04	4.24E-03	8.26E-04	1.09E-01	1.20E+00	1.13E-03	3.51E-02	2.31E-03	3.16E-03	2.75E-03	1.40E-02	3.96
Geometric Mean	31.92	1.07E-03	6.32E-04	2.54E-03	7.43E-04	9.59E-02	6.21E-01	1.19E-03	1.97E-02	1.48E-03	3.16E-03	2.14E-03	1.16E-02	2.32
Max Sample	148.03	2.48E-03	6.70E-04	2.52E-02	2.28E-03	2.42E-01	5.52E+00	3.06E-03	1.41E-01	1.23E-02	3.35E-03	1.01E-02	4.17E-02	25.99
Min Sample	8.86	8.91E-04	5.94E-04	1.52E-03	5.94E-04	3.91E-02	1.11E-01	8.91E-04	3.65E-03	9.15E-04	2.97E-03	1.49E-03	6.04E-03	0.31
AAQC Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > AAQC Limit	1	0	0	0	0	0	1	0	0	0	0	0	0	0
No. Valid Samples	14	14	14	14	14	14	14	14	14	14	14	14	14	15
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	12	14	10	12	0	0	11	0	10	13	11	0	1
% of Valid Samples	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	100%

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.
N/A: Not applicable
----: Invalid sample (Invalid samples that were used in calculations are identified in bold)

APPENDIX A-2:

TOTAL DUSTFALL SAMPLING RESULTS

Dustfall Sampling Results

Tait Road Station Monitoring Results						
(concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
April	30	1.41	0.18	1.41	1.14	<u>0.15</u>
May	31	1.23	1.2	2.46	0.84	1.59
June	30	4.92	3.39	8.31	3.51	4.77
		Arithmetic Mean		4.06	1.83	2.17
		Max Monthly Concentration		8.31	3.51	4.77
		Min Monthly Concentration		1.41	0.84	0.15
		Dustfall AAQC		7	-	-
		No. > AAQC		1	-	-
		MDL		0.3	0.3	0.3
		No. < MDL		0	0	1
		No. Valid Samples		3	3	3
		% Valid Samples		100%	100%	100%

Gallinger Road Station Monitoring Results						
(concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
April	30	5.01	2.01	7.02	2.25	4.77
May	31	3.57	3.03	6.6	2.52	4.08
June	30	6.3	4.86	11.16	3	8.16
		Arithmetic Mean		8.26	2.59	5.67
		Max Monthly Concentration		11.16	3	8.16
		Min Monthly Concentration		6.60	2.25	4.08
		Dustfall AAQC		7	-	-
		No. > AAQC		2	-	-
		MDL		0.3	0.3	0.3
		No. < MDL		0	0	0
		No. Valid Samples		3	3	3
		% Valid Samples		100%	100%	100%

Northwest Station Monitoring Results						
(concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
April	30	1.11	<u>0.18</u>	1.11	0.96	<u>0.15</u>
May	31	1.23	0.45	1.68	0.75	0.93
June	30	1.32	<u>0.165</u>	1.32	<u>0.345</u>	0.84
		Arithmetic Mean		1.37	0.685	0.64
		Max Monthly Concentration		1.68	0.96	0.93
		Min Monthly Concentration		1.11	0.345	0.15
		Dustfall AAQC		7	-	-
		No. > AAQC		0	-	-
		MDL		0.3	0.3	0.3
		No. < MDL		0	1	1
		No. Valid Samples		3	3	3
		% Valid Samples		100%	100%	100%

APPENDIX A-3:

SO₂ AND NO₂ PASSIVE SAMPLING RESULTS

SO2 and NO2 Sampling Results

Tait Road Station Monitoring Results		
(concentrations expressed in $\mu\text{g}/\text{m}^3$)		
Month	SO₂	NO₂
April	0.52	1.32
May	<u>0.13</u>	0.94
June	1.05	0.75
Arithmetic Mean	0.57	1.00
Max Monthly Concentration	1.05	1.32
Min Monthly Concentration	0.13	0.75
Comparison Limit	30	78
No. > Limit	0	0
MDL	0.26	0.19
No. < MDL	1	0
No. Valid Samples	3	3
% Valid Samples	100%	100%

Gallinger Road Station Monitoring Results		
(concentrations expressed in $\mu\text{g}/\text{m}^3$)		
Month	SO₂	NO₂
April	<u>0.13</u>	0.75
May	<u>0.13</u>	0.38
June	0.52	0.75
Arithmetic Mean	0.26	0.63
Max Monthly Concentration	0.52	0.75
Min Monthly Concentration	0.13	0.38
Comparison Limit	30	78
No. > Limit	0	0
MDL	0.26	0.19
No. < MDL	2	0
No. Valid Samples	3	3
% Valid Samples	100%	100%

APPENDIX B:

NOTICE OF EXCEEDANCES FOR Q2 2024

APPENDIX C: LABORATORY RESULTS

CERTIFICATE OF ANALYSIS

Work Order	: BU2400073	Page	: 1 of 5
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 16-May-2024 11:00
PO	: 4700003553	Date Analysis Commenced	: 17-May-2024
C-O-C number	: ----	Issue Date	: 07-Jun-2024 17:58
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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

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
Aaron Burton	Login	Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Leon Yang	Analyst	Inorganics, Burnaby, British Columbia
Sam Silveira	Analyst	Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
cm ²	square centimetres
days	days
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Dustfall				Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dust fall	Dustfall-Trip Blank	----
(Matrix: Air)									
Client sampling date / time					28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400073-001	BU2400073-002	BU2400073-003	BU2400073-004	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	29	29	29	29	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	0.46	0.38	0.32	<0.12	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	1.21	<0.10	<0.10	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	1.67	0.47	0.37	<0.12	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	0.29	<0.12	<0.12	<0.12	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	0.38	<0.10	<0.10	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	0.67	<0.12	<0.12	<0.12	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	0.75	0.38	0.32	<0.24	----
Dustfall, volatile	----	EC883V2.A/V A	0.10	mg/dm².day	1.59	<0.10	<0.10	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	2.34	0.47	0.37	<0.24	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	7.4	6.1	5.2	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	26.8	7.6	6.0	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	4.7	<1.9	<1.9	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	10.8	<1.9	<1.9	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.00383	0.00170	0.00296	<0.000187	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	0.0000108	<0.0000031	<0.0000031	<0.0000031	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	0.0000048	<0.0000031	<0.0000031	<0.0000031	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.0000590	0.0000226	0.0000263	<0.0000031	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000016	<0.000016	<0.000016	<0.000016	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000016	<0.000016	<0.000016	<0.000016	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00031	<0.00031	<0.00031	<0.00031	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	0.0000041	<0.0000013	<0.0000013	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0436	0.0229	0.0194	<0.00062	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	<0.000016	<0.000016	<0.000016	<0.000016	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	0.0000044	<0.0000031	<0.0000031	<0.0000031	----



Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

					North-Dustfall	South-Dustfall	Northwest-Dust fall	Dustfall-Trip Blank	----
Client sampling date / time					28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400073-001	BU2400073-002	BU2400073-003	BU2400073-004	-----
					Result	Result	Result	Result	----
Total Metals									
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	0.000096	<0.000031	<0.000031	<0.000031	----
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.00392	0.00162	0.00274	<0.00093	----
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.0000063	0.0000018	0.0000019	<0.0000016	----
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00016	<0.00016	<0.00016	<0.00016	----
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.0149	0.00250	0.00296	<0.00016	----
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.000426	0.0000660	0.000120	<0.0000062	----
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000016	<0.0000016	<0.0000016	<0.0000016	----
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	0.0000084	<0.0000016	<0.0000016	<0.0000016	----
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	0.000097	<0.000016	<0.000016	<0.000016	----
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	0.0441	<0.0016	<0.0016	<0.0016	----
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.0553	0.0017	<0.0016	<0.0016	----
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000031	<0.000031	<0.000031	<0.000031	----
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	0.0091	0.0032	0.0048	<0.0016	----
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	0.00000131	<0.00000031	<0.00000031	<0.00000031	----
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0105	<0.0016	<0.0016	<0.0016	----
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.0000716	0.0000477	0.0000462	<0.0000031	----
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000031	<0.0000031	<0.0000031	<0.0000031	----
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000031	<0.0000031	<0.0000031	<0.0000031	----
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	<0.00031	<0.00031	<0.00031	<0.00031	----
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026	----
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	<0.000031	<0.000031	<0.000031	<0.000031	----
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.000436	<0.000093	<0.000093	<0.000093	----
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.0616	0.0274	0.0476	<0.0030	----
Antimony, total	7440-36-0	E447/VA	0.000050	mg	0.000174	<0.000050	<0.000050	<0.000050	----
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	0.000077	<0.000050	<0.000050	<0.000050	----
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.000948	0.000364	0.000422	<0.000050	----
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	0.000066	<0.000020	<0.000020	<0.000020	----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dustfall	Dustfall-Trip Blank	----
(Matrix: Air)										
Client sampling date / time					28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	28-Apr-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400073-001	BU2400073-002	BU2400073-003	BU2400073-004	BU2400073-004	-----
					Result	Result	Result	Result	Result	----
Total Metals										
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.701	0.368	0.312	<0.010		----
Chromium, total	7440-47-3	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025		----
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	0.000070	<0.000050	<0.000050	<0.000050		----
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00155	<0.00050	<0.00050	<0.00050		----
Iron, total	7439-89-6	E447/VA	0.015	mg	0.063	0.026	0.044	<0.015		----
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000101	0.000029	0.000030	<0.000025		----
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025		----
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.240	0.0401	0.0475	<0.0025		----
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.00684	0.00106	0.00192	<0.00010		----
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000025	<0.000025	<0.000025	<0.000025		----
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000135	<0.000025	<0.000025	<0.000025		----
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00156	<0.00025	<0.00025	<0.00025		----
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	0.709	<0.025	<0.025	<0.025		----
Potassium, total	7440-09-7	E447/VA	0.025	mg	0.888	0.028	<0.025	<0.025		----
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050		----
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.146	0.052	0.078	<0.025		----
Silver, total	7440-22-4	E447/VA	0.0000050	mg	0.0000211	<0.0000050	<0.0000050	<0.0000050		----
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.169	<0.025	<0.025	<0.025		----
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.00115	0.000766	0.000742	<0.000050		----
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050		----
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050		----
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050		----
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050		----
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050		----
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0070	<0.0015	<0.0015	<0.0015		----

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400073	Page	: 1 of 10
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 16-May-2024 11:00
PO	: 4700003553	Issue Date	: 07-Jun-2024 17:59
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	EF001A	28-Apr-2024	----	----	----		06-Jun-2024	----	40 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) North-Dustfall	EF001A	28-Apr-2024	----	----	----		06-Jun-2024	----	40 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	EF001A	28-Apr-2024	----	----	----		06-Jun-2024	----	40 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) South-Dustfall	EF001A	28-Apr-2024	----	----	----		06-Jun-2024	----	40 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	EF001B	28-Apr-2024	----	----	----		17-May-2024	----	20 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) North-Dustfall	EF001B	28-Apr-2024	----	----	----		17-May-2024	----	20 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	EF001B	28-Apr-2024	----	----	----		17-May-2024	----	20 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) South-Dustfall	EF001B	28-Apr-2024	----	----	----		17-May-2024	----	20 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E885	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E885	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E885	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E885	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E884	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E884	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E884	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E884	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	

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 Work Order : BU2400073
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E882	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E882	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E882	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E882	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E881	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E881	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E881	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E881	28-Apr-2024	04-Jun-2024	----	----		04-Jun-2024	----	38 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E516	28-Apr-2024	03-Jun-2024	180 days	37 days	✓	04-Jun-2024	180 days	0 days	✓

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 Work Order : BU2400073
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E516	28-Apr-2024	03-Jun-2024	180 days	37 days	✓	04-Jun-2024	180 days	0 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E516	28-Apr-2024	03-Jun-2024	180 days	37 days	✓	04-Jun-2024	180 days	0 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E516	28-Apr-2024	03-Jun-2024	180 days	37 days	✓	04-Jun-2024	180 days	0 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall-Trip Blank	E447	28-Apr-2024	04-Jun-2024	180 days	37 days	✓	07-Jun-2024	180 days	41 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E447	28-Apr-2024	04-Jun-2024	180 days	37 days	✓	07-Jun-2024	180 days	41 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E447	28-Apr-2024	04-Jun-2024	180 days	37 days	✓	07-Jun-2024	180 days	41 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E447	28-Apr-2024	04-Jun-2024	180 days	37 days	✓	07-Jun-2024	180 days	41 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1472498	1	8	12.5	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1472496	1	15	6.6	5.0	✓
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1474698	1	4	25.0	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1474699	1	4	25.0	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1474701	1	4	25.0	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1472498	1	8	12.5	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1472496	1	15	6.6	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1474700	1	4	25.0	5.0	✓
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1474698	1	4	25.0	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1474699	1	4	25.0	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1474701	1	4	25.0	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1472498	1	8	12.5	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1472496	1	15	6.6	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1474700	1	4	25.0	5.0	✓
Matrix Spikes (MS)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1472498	1	8	12.5	5.0	✓



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm ² .day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm ² .day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustall and Fixed Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm ² .day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustall and Volatile Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm ² .day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm ² .day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm ² .day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm ²)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm ²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

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 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion.adapted from US EPA 200.2.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400073	Page	: 1 of 8
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 16-May-2024 11:00
PO	: 4700003553	Date Analysis Commenced	: 17-May-2024
C-O-C number	: ----	Issue Date	: 07-Jun-2024 17:58
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
Leon Yang	Analyst	Vancouver Inorganics, Burnaby, British Columbia
Sam Silveira	Analyst	Vancouver Metals, Burnaby, British Columbia

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Work Order : BU2400073
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1472496)											
VA24B2527-001	Anonymous	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0072	0.0063	0.0009	Diff <2x LOR	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.000352	0.000367	4.27%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.090	0.091	1.38%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	<0.015	<0.015	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.0250	0.0254	1.31%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00068	0.00079	15.9%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	0.053	0.053	0.0003	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.000188	0.000190	0.000002	Diff <2x LOR	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1472496) - continued											
VA24B2527-001	Anonymous	Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0052	0.0052	0.00004	Diff <2x LOR	----
Total Metals (QC Lot: 1472498)											
BU2400073-001	North-Dustfall	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1474698)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1474699)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1474700)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1474701)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Total Metals (QCLot: 1472496)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1472496) - continued						
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1472498)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1474698)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	103	85.0	115	----
Particulates (QCLot: 1474699)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	114	85.0	115	----
Particulates (QCLot: 1474700)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	103	85.0	115	----
Particulates (QCLot: 1474701)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	104	85.0	115	----
Total Metals (QCLot: 1472496)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	97.5	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	100	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	101	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	96.3	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	93.3	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	98.5	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	94.0	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	98.6	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	94.6	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	96.0	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	97.7	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	95.2	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	92.6	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	97.0	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	98.8	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	101	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	97.3	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	101	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	96.8	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	110	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	100	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	98.6	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	96.3	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	87.7	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1472496) - continued									
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	101	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	99.0	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	97.3	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	97.9	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	94.4	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	99.6	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	98.1	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	95.5	80.0	120	----
Total Metals (QCLot: 1472498)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	104	70.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report				
					Spike		Recovery (%)	Recovery Limits (%)	
					Concentration	Target	MS	Low	High
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High
Total Metals (QCLot: 1472498)									
BU2400073-002	South-Dustfall	Mercury, total	7439-97-6	E516	0.000386 mg	0 mg	94.2	70.0	130

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : BU2400090

Client : New Gold Inc. (Rainy River)
Contact : Robyn Lloyd
Address : 24 Marr Rd
Barwick, ON Canada P0W 1A0
E-mail : robyn.lloyd@newgold.com
Telephone : 807 234 8200
Facsimile : ----
Project : BU Air Quality
Purchase order number : 4700003553

C-O-C number : ----
Site :
Sampler : Client

Laboratory : ALS Environmental - Burlington
Contact : Claire Kocharakkal
Address : 1435 Norjohn Court, Unit 1
Burlington, Ontario Canada L7L 0E6
E-mail : claire.kocharakkal@alsglobal.com
Telephone : +1 905 331 3111
Facsimile : +1 905 331 4567
Page : 1 of 5
Quote number : BU2023NGRR1000001 (Air Quality Standing Offer (BU Use only))
QC Level : ALS Canada Standard Quality Control

Dates

Date Samples Received : 06-Jun-2024 15:00
Client Requested Due Date : 27-Jun-2024

Issue Date : 07-Jun-2024
Scheduled Reporting Date : 27-Jun-2024

Delivery Details

Mode of Delivery : Carrier
No. of coolers/boxes : 1
Receipt Detail :

Security Seal : Not Available
Temperature : 20.5
No. of samples received / analyzed : 4 / 4

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances (if any)
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Where possible, ALS will store samples for the following durations, measured from date of sample submission: 30 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.
- Temperature is recorded in °C unless otherwise noted.



Sample Container(s)/Preservation Non-Compliances (if any)

All comparisons are made against pretreatment/preservation practices published by CCME, BC ENV, Ontario MOE, Environment Canada, Health Canada, US EPA, APHA Standard Methods, ASTM, or ISO, and comply with provincial requirements for the laboratory location.

- No sample container/preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Matrix: Air

Laboratory sample ID	Client sampling date / time	Client sample ID	Air - S447 Total Metals & Mercury in Dustfall (mg/dm2.day)	Air - S882.A Soluble and Insoluble (Total, Fixed, Volatile)
BU2400090-001	31-May-2024 00:00	Dustfall-North	✓	✓
BU2400090-002	31-May-2024 00:00	Dustfall-South	✓	✓
BU2400090-003	31-May-2024 00:00	Dustfall-Northwest	✓	✓
BU2400090-004	31-May-2024 00:00	Dustfall-Trip Blank	✓	✓

Proactive Holding Time Report

All sample(s) for this submission were received within the recommended holding times for the requested tests.

Issue Date : 07-Jun-2024
Page : 3 of 5
Work Order : BU2400090 Amendment 0
Client : New Gold Inc. (Rainy River)



Requested Deliverables

Claire Kocharakkal

ALS Excel Report (ALS_MTABXL_CAN)	Email	claire.kocharakkal@alsglobal.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	claire.kocharakkal@alsglobal.com
Interpretive Quality Control Report (QCI (CAN))	Email	claire.kocharakkal@alsglobal.com
Quality Control (QC (CAN))	Email	claire.kocharakkal@alsglobal.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	claire.kocharakkal@alsglobal.com
Tax Invoice (INVOICE (CAN))	Email	claire.kocharakkal@alsglobal.com

Garnet Cornell

ALS Excel Report (ALS_MTABXL_CAN)	Email	Garnet.Cornell@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	Garnet.Cornell@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	Garnet.Cornell@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	Garnet.Cornell@newgold.com
Quality Control (QC (CAN))	Email	Garnet.Cornell@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	Garnet.Cornell@newgold.com

Garnet Cornell (Accounts Payable)

Tax Invoice (INVOICE (CAN))	Email	rainyriver.accounts@newgold.com

Lab Results

ALS Excel Report (ALS_MTABXL_CAN)	Email	rainyriver.labresults@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	rainyriver.labresults@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	rainyriver.labresults@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	rainyriver.labresults@newgold.com
Quality Control (QC (CAN))	Email	rainyriver.labresults@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	rainyriver.labresults@newgold.com

Robyn Lloyd

ALS Excel Report (ALS_MTABXL_CAN)	Email	robyn.lloyd@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	robyn.lloyd@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	robyn.lloyd@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	robyn.lloyd@newgold.com
Quality Control (QC (CAN))	Email	robyn.lloyd@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	robyn.lloyd@newgold.com

Suzy Sabanathan



Issue Date : 07-Jun-2024
Page : 4 of 5
Work Order : BU2400090 Amendment 0
Client : New Gold Inc. (Rainy River)

ALS Excel Report (ALS_MTABXL_CAN)	Email	ssabanathan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	ssabanathan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	ssabanathan@trinityconsultants.com
Quality Control (QC (CAN))	Email	ssabanathan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	ssabanathan@trinityconsultants.com

Varshini Padmanabhan

ALS Excel Report (ALS_MTABXL_CAN)	Email	varshini.padmanabhan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Quality Control (QC (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	varshini.padmanabhan@trinityconsultants.com



Methods with Laboratory

Sale item					
Method	Laboratory	Address	City	Province	Country
Soluble and Insoluble (Total, Fixed, Volatile) Dustfalls (mg/dm2.day)					
E881	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E882	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E884	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E885	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC880T.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC881.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC882.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC883F.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC883V2.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC884.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC884V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC885.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC885V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Total Metals & Mercury in Dustfall (mg/dm2.day)					
E447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada

Report To	Report Format / Distribution						Service Requested									
Company:	New Gold Inc.							Regular Service Rush Services (with prior consultation) - surcharge applies Other - Please contact ALS								
Contact:	Robyn Lloyd															
Address:	1361 Roen Road, Chapple, ON P0W 1A0	Email 1: robbyn.lloyd@newgold.com														
Phone:	807-234-8200 ext. 8029	Fax:	Email 2:													
Invoice To:	Same as Report	Client / Project Information														
Company:		Job #:						Air Quality								
Contact:		Location:														
Address:		PO:						4700003553								
Phone:		Fax:	Sampled by:													
Lab Work Order #							ALS Contact:									
Sample #	Sample Identification (This description will appear on the report)		Date (dd-mm-yyyy)	Time (hh:mm)	Sample Type	TSP and Metals	Pm 2.5	Dustfall incl. volatile	Hazardous? Provide Data?	Highly Contaminated?	Number of Containers					
NORTH-TSP-544			6-May-2024	12:00	Air	X										
SOUTH-TSP-544			6-May-2024	12:00	Air	X										
NORTHWEST-TSP-544			6-May-2024	12:00	Air	X										
NORTH-TSP-545			12-May-2024	12:00	Air	X										
SOUTH-TSP-545			12-May-2024	12:00	Air	X										
NORTHWEST-TSP-545			12-May-2024	12:00	Air	X										
NORTH-TSP-546			18-May-2024	12:00	Air	X										
SOUTH-TSP-546			18-May-2024	12:00	Air	X										
NORTHWEST-TSP-546			18-May-2024	12:00	Air	X										
NORTH-TSP-547			24-May-2024	12:00	Air	X										
SOUTH-TSP-547			24-May-2024	12:00	Air	X										
NORTHWEST-TSP-547			24-May-2024	12:00	Air	X										
NORTH-TSP-548			30-May-2024	12:00	Air	X										
SOUTH-TSP-548			30-May-2024	12:00	Air	X										
NORTHWEST-TSP-548			30-May-2024	12:00	Air	X										
TRIP BLANK - April TSP			31-May-2024	12:00	Air	X										
NORTH-PM2.5-544			6-May-2024	12:00	Air	X										
SOUTH-PM2.5-544			6-May-2024	12:00	Air	X										
NORTHWEST-PM2.5-544			6-May-2024	12:00	Air	X										
NORTH-PM2.5-545			12-May-2024	12:00	Air	X										
SOUTH-PM2.5-545			12-May-2024	12:00	Air	X										
NORTHWEST-PM2.5-545			12-May-2024	12:00	Air	X										
NORTH-PM2.5-546			18-May-2024	12:00	Air	X										
SOUTH-PM2.5-546			18-May-2024	12:00	Air	X										
NORTHWEST-PM2.5-546			18-May-2024	12:00	Air	X										
NORTH-PM2.5-547			24-May-2024	12:00	Air	X										
SOUTH-PM2.5-547			24-May-2024	12:00	Air	X										
NORTHWEST-PM2.5-547			24-May-2024	12:00	Air	X										
NORTH-PM2.5-548			30-May-2024	12:00	Air	X										
SOUTH-PM2.5-548			30-May-2024	12:00	Air	X										
NORTHWEST-PM2.5-548			30-May-2024	12:00	Air	X										
TRIP BLANK - April PM2.5			31-May-2024	12:00	Air	X										
Dustfall - Northwest			31-May-2024	12:00	Air		X									
Dustfall - Trip Blank			31-May-2024	12:00	Air		X									
Dustfall - North			31-May-2024	12:00	Air		X									
Dustfall - South			31-May-2024	12:00	Air		X									
Special Instructions / Regulations / Hazardous Details																
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS																
Released by:	Date (dd-mmm-yy)	Time (hh:mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observation Yes / No ? If Yes add:						
			ARLAN BURTAN	6-June 2024	15:00	20.5 °C										

CERTIFICATE OF ANALYSIS

Work Order	: BU2400090	Page	: 1 of 5
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Jun-2024 15:00
PO	: 4700003553	Date Analysis Commenced	: 07-Jun-2024
C-O-C number	: ----	Issue Date	: 28-Jun-2024 15:05
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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

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
Aaron Burton	Login	Administration, Burlington, Ontario
Alex Thornton	Analyst	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
cm ²	square centimetres
days	days
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Dustfall (Matrix: Air)				Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time					31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400090-001	BU2400090-002	BU2400090-003	BU2400090-004	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	33	33	33	33	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	0.60	0.16	0.25	<0.10	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	0.60	0.25	0.16	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	1.19	0.41	0.41	<0.10	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	0.25	0.12	<0.10	<0.10	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	0.76	0.28	0.15	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	1.01	0.40	0.15	<0.10	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	0.84	0.28	0.25	<0.21	----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm².day	1.36	0.53	0.31	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	2.20	0.82	0.56	<0.21	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	10.9	2.9	4.6	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	21.8	7.5	7.5	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	4.5	2.3	<1.9	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	18.4	7.4	2.7	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.0115	0.00350	0.00569	<0.000164	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	0.0000051	<0.0000027	<0.0000027	<0.0000027	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	0.0000109	0.0000053	0.0000048	<0.0000027	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.000136	0.0000716	0.0000656	<0.0000027	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000014	<0.000014	<0.000014	<0.000014	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000014	<0.000014	<0.000014	<0.000014	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00027	<0.00027	<0.00027	<0.00027	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	0.0000045	0.0000014	<0.0000013	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0402	0.0243	0.0213	<0.00055	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	0.000079	0.000048	0.000063	<0.000014	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	0.0000095	0.0000039	0.0000033	<0.0000027	----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-Trip Blank	----
(Matrix: Air)					Client sampling date / time	31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400090-001	BU2400090-002	BU2400090-003	BU2400090-004	-----	
					Result	Result	Result	Result	-----	
Total Metals										
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	0.000172	0.000069	0.000045	<0.000027		----
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.0165	0.00585	0.00777	<0.00082		----
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.0000250	0.0000058	0.0000076	<0.0000014		----
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00014	<0.00014	<0.00014	<0.00014		----
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.0155	0.00831	0.00722	<0.00014		----
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.000853	0.000529	0.000444	<0.0000055		----
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000014	<0.0000014	<0.0000014	<0.0000014		----
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	0.0000097	0.0000022	0.0000034	<0.0000014		----
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	0.000070	0.000031	0.000035	<0.000014		----
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	0.0337	0.0240	0.0068	<0.0014		----
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.0678	0.0296	0.0122	<0.0014		----
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000027	<0.000027	<0.000027	<0.000027		----
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	0.0223	0.0061	0.0087	<0.0014		----
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	0.00000144	<0.00000027	<0.00000027	<0.00000027		----
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0102	0.0097	0.0073	<0.0014		----
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.000101	0.0000456	0.0000479	<0.0000027		----
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000027	<0.0000027	<0.0000027	<0.0000027		----
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000027	<0.0000027	<0.0000027	<0.0000027		----
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	0.00030	<0.00027	<0.00027	<0.00027		----
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026		----
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	0.000030	<0.000027	<0.000027	<0.000027		----
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.00162	0.000503	0.000213	<0.000082		----
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.210	0.0640	0.104	<0.0030		----
Antimony, total	7440-36-0	E447/VA	0.000050	mg	0.000094	<0.000050	<0.000050	<0.000050		----
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	0.000199	0.000097	0.000087	<0.000050		----
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.00248	0.00131	0.00120	<0.000050		----
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025		----
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025		----
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050		----
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	0.000083	0.000026	<0.000020	<0.000020		----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
(Matrix: Air)										
Client sampling date / time					31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	31-May-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400090-001	BU2400090-002	BU2400090-003	BU2400090-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.736	0.445	0.390	<0.010	----	
Chromium, total	7440-47-3	E447/VA	0.00025	mg	0.00144	0.00088	0.00116	<0.00025	----	
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	0.000174	0.000071	0.000060	<0.000050	----	
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00314	0.00126	0.00082	<0.00050	----	
Iron, total	7439-89-6	E447/VA	0.015	mg	0.302	0.107	0.142	<0.015	----	
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000458	0.000107	0.000139	<0.000025	----	
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025	----	
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.284	0.152	0.132	<0.0025	----	
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.0156	0.00967	0.00812	<0.00010	----	
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000025	<0.000025	<0.000025	<0.000025	----	
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000177	0.000040	0.000062	<0.000025	----	
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00128	0.00056	0.00064	<0.00025	----	
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	0.617	0.438	0.124	<0.025	----	
Potassium, total	7440-09-7	E447/VA	0.025	mg	1.24	0.541	0.224	<0.025	----	
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.408	0.112	0.159	<0.025	----	
Silver, total	7440-22-4	E447/VA	0.0000050	mg	0.0000263	<0.0000050	<0.0000050	<0.0000050	----	
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.187	0.178	0.134	<0.025	----	
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.00184	0.000833	0.000876	<0.000050	----	
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Titanium, total	7440-32-6	E447/VA	0.0050	mg	0.0055	<0.0050	<0.0050	<0.0050	----	
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	0.0000196	<0.0000050	0.0000052	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	0.00054	<0.00050	<0.00050	<0.00050	----	
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0296	0.0092	0.0039	<0.0015	----	

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400090	Page	: 1 of 10
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Jun-2024 15:00
PO	: 4700003553	Issue Date	: 28-Jun-2024 15:06
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-North	EF001A	31-May-2024	----	----	----		27-Jun-2024	----	28 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001A	31-May-2024	----	----	----		27-Jun-2024	----	28 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-South	EF001A	31-May-2024	----	----	----		27-Jun-2024	----	28 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	EF001A	31-May-2024	----	----	----		27-Jun-2024	----	28 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-North	EF001B	31-May-2024	----	----	----		07-Jun-2024	----	7 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001B	31-May-2024	----	----	----		07-Jun-2024	----	7 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-South	EF001B	31-May-2024	----	----	----		07-Jun-2024	----	7 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	EF001B	31-May-2024	----	----	----		07-Jun-2024	----	7 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E885	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E885	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E885	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E885	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E884	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E884	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E884	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E884	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	

Page : 5 of 10
 Work Order : BU2400090
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E882	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E882	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E882	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E882	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E881	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E881	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E881	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E881	31-May-2024	25-Jun-2024	----	----		26-Jun-2024	----	27 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E516	31-May-2024	13-Jun-2024	180 days	14 days	✓	16-Jun-2024	180 days	3 days	✓

Page : 6 of 10
 Work Order : BU2400090
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E516	31-May-2024	13-Jun-2024	180 days	14 days	✓	16-Jun-2024	180 days	3 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E516	31-May-2024	13-Jun-2024	180 days	14 days	✓	16-Jun-2024	180 days	3 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E516	31-May-2024	13-Jun-2024	180 days	14 days	✓	16-Jun-2024	180 days	3 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E447	31-May-2024	14-Jun-2024	180 days	15 days	✓	17-Jun-2024	180 days	18 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E447	31-May-2024	14-Jun-2024	180 days	15 days	✓	17-Jun-2024	180 days	18 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E447	31-May-2024	14-Jun-2024	180 days	15 days	✓	17-Jun-2024	180 days	18 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E447	31-May-2024	14-Jun-2024	180 days	15 days	✓	17-Jun-2024	180 days	18 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1490334	1	13	7.6	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1490333	1	13	7.6	5.0	✓
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1513802	1	4	25.0	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1513803	1	4	25.0	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1513805	1	4	25.0	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1490334	1	13	7.6	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1490333	1	13	7.6	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1513804	1	4	25.0	5.0	✓
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1513802	1	4	25.0	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1513803	1	4	25.0	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1513805	1	4	25.0	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1490334	1	13	7.6	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1490333	1	13	7.6	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1513804	1	4	25.0	5.0	✓
Matrix Spikes (MS)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1490334	1	13	7.6	5.0	✓



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Soluble Dustfalls by Gravimetry (mg/dm2.day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm2.day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm2.day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustall and Fixed Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm2.day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustall and Volatile Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm2.day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm2.day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm2.day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm2.day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm2)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

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 Work Order : BU2400090
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion.adapted from US EPA 200.2.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400090	Page	: 1 of 8
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Jun-2024 15:00
PO	: 4700003553	Date Analysis Commenced	: 07-Jun-2024
C-O-C number	: ----	Issue Date	: 28-Jun-2024 15:06
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Alex Thornton	Analyst	Vancouver Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Vancouver Inorganics, Burnaby, British Columbia

Page : 2 of 8
Work Order : BU2400090
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1490333)											
BU2400090-001	Dustfall-North	Aluminum, total	7429-90-5	E447	0.0030	mg	0.210	0.197	6.64%	40%	----
		Antimony, total	7440-36-0	E447	0.000050	mg	0.000094	0.000103	0.000009	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000199	0.000229	0.000030	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.00248	0.00258	3.77%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	0.000083	0.000077	0.000006	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.736	0.817	10.5%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	0.00144	0.00094	0.00049	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	0.000174	0.000178	0.000004	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	0.00314	0.00247	0.00068	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	0.302	0.286	5.38%	30%	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000458	0.000667	37.2%	40%	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.284	0.300	5.47%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.0156	0.0163	4.32%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	0.000177	0.000172	2.82%	40%	----
		Nickel, total	7440-02-0	E447	0.00025	mg	0.00128	0.00101	0.00027	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	0.617	0.688	10.9%	30%	----
		Potassium, total	7440-09-7	E447	0.025	mg	1.24	1.36	9.62%	40%	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.408	0.396	2.98%	30%	----
		Silver, total	7440-22-4	E447	0.0000050	mg	0.0000263	0.0000219	0.0000044	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	0.187	0.174	7.12%	40%	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.00184	0.00193	4.93%	40%	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	0.0055	0.0056	0.00009	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	0.0000196	0.0000207	0.0000011	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1490333) - continued											
BU2400090-001	Dustfall-North	Vanadium, total	7440-62-2	E447	0.00050	mg	0.00054	<0.00050	0.00004	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0296	0.0279	6.01%	30%	----
Total Metals (QC Lot: 1490334)											
BU2400090-001	Dustfall-North	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1513802)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1513803)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1513804)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1513805)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Total Metals (QCLot: 1490333)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1490333) - continued						
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1490334)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1513802)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	103	85.0	115	----
Particulates (QCLot: 1513803)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	106	85.0	115	----
Particulates (QCLot: 1513804)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	101	85.0	115	----
Particulates (QCLot: 1513805)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	104	85.0	115	----
Total Metals (QCLot: 1490333)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	101	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	106	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	109	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	109	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	96.4	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	107	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	92.7	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	102	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	95.9	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	105	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	104	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	103	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	102	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	107	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	92.6	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	105	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	103	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	106	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	103	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	104	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	104	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	104	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	104	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	92.9	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1490333) - continued									
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	106	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	101	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	109	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	98.8	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	100	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	103	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	105	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	104	80.0	120	----
Total Metals (QCLot: 1490334)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	109	70.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report				
					Spike		Recovery (%)	Recovery Limits (%)	
					Concentration	Target	MS	Low	High
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High
Total Metals (QCLot: 1490334)									
BU2400090-002	Dustfall-South	Mercury, total	7439-97-6	E516	0.000458 mg	0 mg	97.4	70.0	130

[illegible]

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : BU2400130

Client : New Gold Inc. (Rainy River)
Contact : Robyn Lloyd
Address : 24 Marr Rd
Barwick, ON Canada P0W 1A0
E-mail : robyn.lloyd@newgold.com
Telephone : 807 234 8200
Facsimile : ----
Project : BU Air Quality
Purchase order number : 47000003553

C-O-C number : ----
Site :
Sampler : Client

Laboratory : ALS Environmental - Burlington
Contact : Claire Kocharakkal
Address : 1435 Norjohn Court, Unit 1
Burlington, Ontario Canada L7L 0E6
E-mail : claire.kocharakkal@alsglobal.com
Telephone : +1 905 331 3111
Facsimile : +1 905 331 4567
Page : 1 of 5
Quote number : BU2023NGRR1000001 (Air Quality Standing Offer (BU Use only))
QC Level : ALS Canada Standard Quality Control

Dates

Date Samples Received : 05-Jul-2024 12:15
Client Requested Due Date : 26-Jul-2024

Issue Date : 08-Jul-2024
Scheduled Reporting Date : 26-Jul-2024

Delivery Details

Mode of Delivery : Carrier
No. of coolers/boxes : 1
Receipt Detail :

Security Seal : Not Available
Temperature : 22.5
No. of samples received / analyzed : 4 / 4

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances (if any)
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Where possible, ALS will store samples for the following durations, measured from date of sample submission: 30 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.
- **Temperature is recorded in °C unless otherwise noted.**



Sample Container(s)/Preservation Non-Compliances (if any)

All comparisons are made against pretreatment/preservation practices published by CCME, BC ENV, Ontario MOE, Environment Canada, Health Canada, US EPA, APHA Standard Methods, ASTM, or ISO, and comply with provincial requirements for the laboratory location.

- No sample container/preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Laboratory sample ID	Client sampling date / time	Client sample ID	Air - S447 Total Metals & Mercury in Dustfall (mg/dm2.day)	Air - S882.A Soluble and Insoluble (Total, Fixed, Volatile)
BU2400130-001	30-Jun-2024 00:00	Dustfall-North	✓	✓
BU2400130-002	30-Jun-2024 00:00	Dustfall-South	✓	✓
BU2400130-003	30-Jun-2024 00:00	Dustfall-Northwest	✓	✓
BU2400130-004	30-Jun-2024 00:00	Dustfall-June Trip Blank	✓	✓

Proactive Holding Time Report

All sample(s) for this submission were received within the recommended holding times for the requested tests.

Issue Date : 08-Jul-2024
Page : 3 of 5
Work Order : BU2400130 Amendment 0
Client : New Gold Inc. (Rainy River)



Requested Deliverables

Claire Kocharakkal

ALS Excel Report (ALS_MTABXL_CAN)	Email	claire.kocharakkal@alsglobal.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	claire.kocharakkal@alsglobal.com
Interpretive Quality Control Report (QCI (CAN))	Email	claire.kocharakkal@alsglobal.com
Quality Control (QC (CAN))	Email	claire.kocharakkal@alsglobal.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	claire.kocharakkal@alsglobal.com
Tax Invoice (INVOICE (CAN))	Email	claire.kocharakkal@alsglobal.com

Garnet Cornell

ALS Excel Report (ALS_MTABXL_CAN)	Email	Garnet.Cornell@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	Garnet.Cornell@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	Garnet.Cornell@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	Garnet.Cornell@newgold.com
Quality Control (QC (CAN))	Email	Garnet.Cornell@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	Garnet.Cornell@newgold.com

Garnet Cornell (Accounts Payable)

Tax Invoice (INVOICE (CAN))	Email	rainyriver.accounts@newgold.com

Lab Results

ALS Excel Report (ALS_MTABXL_CAN)	Email	rainyriver.labresults@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	rainyriver.labresults@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	rainyriver.labresults@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	rainyriver.labresults@newgold.com
Quality Control (QC (CAN))	Email	rainyriver.labresults@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	rainyriver.labresults@newgold.com

Robyn Lloyd

ALS Excel Report (ALS_MTABXL_CAN)	Email	robyn.lloyd@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	robyn.lloyd@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	robyn.lloyd@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	robyn.lloyd@newgold.com
Quality Control (QC (CAN))	Email	robyn.lloyd@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	robyn.lloyd@newgold.com

Suzy Sabanathan



Issue Date : 08-Jul-2024
Page : 4 of 5
Work Order : BU2400130 Amendment 0
Client : New Gold Inc. (Rainy River)

ALS Excel Report (ALS_MTABXL_CAN)	Email	ssabanathan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	ssabanathan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	ssabanathan@trinityconsultants.com
Quality Control (QC (CAN))	Email	ssabanathan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	ssabanathan@trinityconsultants.com

Varshini Padmanabhan

ALS Excel Report (ALS_MTABXL_CAN)	Email	varshini.padmanabhan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Quality Control (QC (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	varshini.padmanabhan@trinityconsultants.com



Methods with Laboratory

Sale item

Method	Laboratory	Address	City	Province	Country
Soluble and Insoluble (Total, Fixed, Volatile) Dustfalls (mg/dm2.day)					
E881	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E882	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E884	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E885	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC880T.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC881.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC882.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC883F.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC883V2.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC884.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC884V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC885.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC885V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Total Metals & Mercury in Dustfall (mg/dm2.day)					
E447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada



Page 1 of 1



Environmental Division
Burlington
Work Order Reference
BU2400130



Telephone : +1 905 331 3111

CERTIFICATE OF ANALYSIS

Work Order	: BU2400130	Page	: 1 of 5
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Jul-2024 12:15
PO	: 47000003553	Date Analysis Commenced	: 08-Jul-2024
C-O-C number	: ----	Issue Date	: 26-Jul-2024 18:21
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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

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>
Aaron Burton	Login	Administration, Burlington, Ontario
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Leon Yang	Analyst	Inorganics, Burnaby, British Columbia
Sam Silveira	Analyst	Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
cm ²	square centimetres
days	days
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Dustfall				Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-June Trip Blank	----
(Matrix: Air)									
Client sampling date / time					30-Jun-2024 00:00	30-Jun-2024 00:00	30-Jun-2024 00:00	30-Jun-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400130-001	BU2400130-002	BU2400130-003	BU2400130-004	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	30	30	30	30	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	0.40	0.63	0.16	<0.11	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	1.70	1.00	0.28	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	2.10	1.64	0.44	<0.11	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	0.60	0.54	<0.11	<0.11	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	1.02	0.59	<0.10	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	1.62	1.13	<0.11	<0.11	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	1.00	1.17	<0.23	<0.23	----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm².day	2.72	1.59	0.28	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	3.72	2.77	0.44	<0.23	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	6.7	10.5	2.7	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	35.0	27.2	7.3	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	10.0	9.0	<1.9	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	26.9	18.8	<1.9	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.00428	0.0136	0.00440	<0.000180	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	0.0000032	0.0000058	<0.0000030	<0.0000030	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	0.0000050	0.0000053	0.0000034	<0.0000030	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.000110	0.000103	0.0000830	<0.0000030	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000015	<0.000015	<0.000015	<0.000015	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000015	<0.000015	<0.000015	<0.000015	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00030	<0.00030	<0.00030	<0.00030	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	0.0000053	0.0000028	0.0000036	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0294	0.0406	0.0182	0.00072	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	<0.000015	0.000024	<0.000015	<0.000015	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	0.0000035	0.0000129	<0.0000030	<0.0000030	----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-June Trip Blank	----
(Matrix: Air)					Client sampling date / time	30-Jun-2024 00:00	30-Jun-2024 00:00	30-Jun-2024 00:00	30-Jun-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400130-001	BU2400130-002	BU2400130-003	BU2400130-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	0.000252	0.000217	0.000031	<0.000030		----
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.00481	0.0193	0.00493	<0.00090		----
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.0000242	0.0000128	0.0000078	<0.0000015		----
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00015	<0.00015	<0.00015	<0.00015		----
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.0251	0.0393	0.00590	<0.00015		----
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.000969	0.000848	0.000335	<0.0000060		----
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000015	<0.0000015	<0.0000015	<0.0000015		----
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	0.0000210	0.0000482	<0.0000015	<0.0000015		----
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	0.000020	0.000096	<0.000015	<0.000015		----
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	0.0999	0.108	0.0103	<0.0015		----
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.142	0.147	0.0140	<0.0015		----
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000030	<0.000030	<0.000030	<0.000030		----
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	0.0116	0.0276	0.0103	<0.0015		----
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	0.00000081	0.00000097	<0.00000030	<0.00000030		----
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0079	0.0067	0.0044	<0.0015		----
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.0000806	0.000108	0.0000460	<0.0000030		----
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000030	<0.0000030	<0.0000030	<0.0000030		----
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000030	<0.0000030	<0.0000030	<0.0000030		----
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	<0.00030	0.00032	<0.00030	<0.00030		----
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026		----
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	<0.000030	0.000033	<0.000030	<0.000030		----
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.00140	0.000728	0.000168	<0.000090		----
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.0711	0.227	0.0732	<0.0030		----
Antimony, total	7440-36-0	E447/VA	0.000050	mg	0.000053	0.000097	<0.000050	<0.000050		----
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	0.000083	0.000088	0.000057	<0.000050		----
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.00183	0.00172	0.00138	<0.000050		----
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025		----
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025		----
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050		----
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	0.000088	0.000047	0.000060	<0.000020		----



Analytical Results

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-June Trip Blank	----
Client sampling date / time					30-Jun-2024 00:00	30-Jun-2024 00:00	30-Jun-2024 00:00	30-Jun-2024 00:00	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400130-001	BU2400130-002	BU2400130-003	BU2400130-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.488	0.674	0.303	0.012	----	
Chromium, total	7440-47-3	E447/VA	0.00025	mg	<0.00025	0.00040	<0.00025	<0.00025	----	
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	0.000058	0.000214	<0.000050	<0.000050	----	
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00418	0.00361	0.00051	<0.00050	----	
Iron, total	7439-89-6	E447/VA	0.015	mg	0.080	0.321	0.082	<0.015	----	
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000403	0.000212	0.000130	<0.000025	----	
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025	----	
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.417	0.653	0.0981	<0.0025	----	
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.0161	0.0141	0.00557	<0.00010	----	
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000025	<0.000025	<0.000025	<0.000025	----	
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000350	0.000801	<0.000025	<0.000025	----	
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00033	0.00160	<0.00025	<0.00025	----	
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	1.66	1.80	0.171	<0.025	----	
Potassium, total	7440-09-7	E447/VA	0.025	mg	2.36	2.45	0.233	<0.025	----	
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.192	0.459	0.172	<0.025	----	
Silver, total	7440-22-4	E447/VA	0.0000050	mg	0.0000135	0.0000162	<0.0000050	<0.0000050	----	
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.132	0.112	0.073	<0.025	----	
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.00134	0.00179	0.000764	<0.000050	----	
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	0.0054	<0.0050	<0.0050	----	
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000050	0.0000067	<0.0000050	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	0.00055	<0.00050	<0.00050	----	
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0232	0.0121	0.0028	<0.0015	----	

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400130	Page	: 1 of 11
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Jul-2024 12:15
PO	: 47000003553	Issue Date	: 26-Jul-2024 18:21
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

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Work Order : BU2400130
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Total Metals	BU2400130-001	Dustfall-North	Lead, total	7439-92-1	E447	75.7 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier Description

DUP-H Duplicate results outside ALS DQO, due to sample heterogeneity.

Laboratory Control Sample (LCS) Recoveries

Total Metals	QC-1542430-002	----	Phosphorus, total	7723-14-0	E447	124 % MES	80.0-120%	Recovery greater than upper control limit

Result Qualifiers

Qualifier Description

MES Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	EF001A	30-Jun-2024	----	----	----		24-Jul-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-North	EF001A	30-Jun-2024	----	----	----		24-Jul-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001A	30-Jun-2024	----	----	----		24-Jul-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-South	EF001A	30-Jun-2024	----	----	----		24-Jul-2024	----	25 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	EF001B	30-Jun-2024	----	----	----		08-Jul-2024	----	8 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-North	EF001B	30-Jun-2024	----	----	----		08-Jul-2024	----	8 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001B	30-Jun-2024	----	----	----		08-Jul-2024	----	8 days	

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 Work Order : BU2400130
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-South	EF001B	30-Jun-2024	----	----	----		08-Jul-2024	----	8 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	E885	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E885	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E885	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E885	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	E884	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E884	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E884	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E884	30-Jun-2024	23-Jul-2024	----	----		24-Jul-2024	----	25 days	

Page : 6 of 11
 Work Order : BU2400130
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	E882	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E882	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E882	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E882	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	E881	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E881	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E881	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E881	30-Jun-2024	23-Jul-2024	----	----		23-Jul-2024	----	24 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	E516	30-Jun-2024	18-Jul-2024	180 days	19 days	✓	20-Jul-2024	180 days	1 days	✓



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E516	30-Jun-2024	18-Jul-2024	180 days	19 days	✓	20-Jul-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E516	30-Jun-2024	18-Jul-2024	180 days	19 days	✓	20-Jul-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E516	30-Jun-2024	18-Jul-2024	180 days	19 days	✓	20-Jul-2024	180 days	1 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-June Trip Blank	E447	30-Jun-2024	19-Jul-2024	180 days	20 days	✓	23-Jul-2024	180 days	23 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E447	30-Jun-2024	19-Jul-2024	180 days	20 days	✓	23-Jul-2024	180 days	23 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E447	30-Jun-2024	19-Jul-2024	180 days	20 days	✓	23-Jul-2024	180 days	23 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E447	30-Jun-2024	19-Jul-2024	180 days	20 days	✓	23-Jul-2024	180 days	23 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1542431	1	18	5.5	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1542430	1	18	5.5	5.0	✔
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1560500	1	4	25.0	5.0	✔
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1560501	1	4	25.0	5.0	✔
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1560503	1	4	25.0	5.0	✔
Total Mercury by CVAAS (Dustfall, mg)	E516	1542431	1	18	5.5	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1542430	1	18	5.5	5.0	✔
Total Soluble Dustfalls by Gravimetry (mg)	E881	1560502	1	4	25.0	5.0	✔
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1560500	1	4	25.0	5.0	✔
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1560501	1	4	25.0	5.0	✔
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1560503	1	4	25.0	5.0	✔
Total Mercury by CVAAS (Dustfall, mg)	E516	1542431	1	18	5.5	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1542430	1	18	5.5	5.0	✔
Total Soluble Dustfalls by Gravimetry (mg)	E881	1560502	1	4	25.0	5.0	✔
Matrix Spikes (MS)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1542431	1	18	5.5	5.0	✔



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Soluble Dustfalls by Gravimetry (mg/dm2.day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm2.day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm2.day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustall and Fixed Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm2.day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustall and Volatile Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm2.day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm2.day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm2.day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm2.day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm2)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

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 Work Order : BU2400130
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion.adapted from US EPA 200.2.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400130	Page	: 1 of 8
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Jul-2024 12:15
PO	: 47000003553	Date Analysis Commenced	: 08-Jul-2024
C-O-C number	: ----	Issue Date	: 26-Jul-2024 18:21
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
Leon Yang	Analyst	Vancouver Inorganics, Burnaby, British Columbia
Sam Silveira	Analyst	Vancouver Metals, Burnaby, British Columbia

Page : 2 of 8
Work Order : BU2400130
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1542430)											
BU2400130-001	Dustfall-North	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0711	0.0728	2.35%	40%	----
		Antimony, total	7440-36-0	E447	0.000050	mg	0.000053	0.000053	0.0000006	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000083	0.000073	0.000010	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.00183	0.00169	8.17%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	0.000088	0.000091	0.000003	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.488	0.512	4.75%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	0.000058	0.000058	0.0000002	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	0.00418	0.00415	0.760%	30%	----
		Iron, total	7439-89-6	E447	0.015	mg	0.080	0.084	0.004	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000403	0.000182	75.7%	40%	DUP-H
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.417	0.427	2.36%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.0161	0.0158	1.83%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	0.000350	0.000381	8.57%	40%	----
		Nickel, total	7440-02-0	E447	0.00025	mg	0.00033	0.00041	0.00008	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	1.66	1.65	0.644%	30%	----
		Potassium, total	7440-09-7	E447	0.025	mg	2.36	2.40	1.92%	40%	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.192	0.183	4.58%	30%	----
		Silver, total	7440-22-4	E447	0.0000050	mg	0.0000135	0.0000138	0.0000003	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	0.132	0.134	1.10%	40%	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.00134	0.00139	4.08%	40%	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1542430) - continued											
BU2400130-001	Dustfall-North	Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0232	0.0227	2.16%	30%	----
Total Metals (QC Lot: 1542431)											
BU2400130-001	Dustfall-North	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----

Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1560500)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1560501)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1560502)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1560503)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Total Metals (QCLot: 1542430)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1542430) - continued						
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1542431)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1560500)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	109	85.0	115	----
Particulates (QCLot: 1560501)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	110	85.0	115	----
Particulates (QCLot: 1560502)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	99.3	85.0	115	----
Particulates (QCLot: 1560503)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	110	85.0	115	----
Total Metals (QCLot: 1542430)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	112	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	109	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	112	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	110	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	107	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	102	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	99.2	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	107	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	104	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	108	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	108	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	109	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	101	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	101	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	100.0	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	113	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	111	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	108	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	109	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	# 124	80.0	120	MES
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	106	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	112	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	109	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	92.6	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1542430) - continued									
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	112	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	106	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	96.9	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	107	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	109	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	104	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	109	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	105	80.0	120	----
Total Metals (QCLot: 1542431)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	105	70.0	130	----

Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 1542431)										
BU2400130-002	Dustfall-South	Mercury, total	7439-97-6	E516	0.000424 mg	0 mg	94.3	70.0	130	----



Page 1 of 1



Environmental Division
Burlington
Work Order Reference
BU2400130



Telephone : +1 905 331 3111



Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/04/28-2024/05/31
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/06/19
Report #: R3515677
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C441704

Received: 2024/06/07, 09:30

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
NO2 Passive Analysis	2	2024/06/10	2024/06/17	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/06/11	2024/06/17	PTC SOP-00149	Passive SO2 in ATM

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
19 Jun 2024 10:46:42

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		COX182	COX183		
Sampling Date		2024/04/28 00:00	2024/04/28 00:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.5	0.2	0.1	B396918
Calculated SO2	ppb	<0.1	<0.1	0.1	B398089
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B396918	S1T	Spiked Blank	Calculated NO2			99	%	90 - 110
B396918	S1T	Method Blank	Calculated NO2		<0.1		ppb	
B398089	OZ	Spiked Blank	Calculated SO2			98	%	90 - 110
B398089	OZ	Method Blank	Calculated SO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Steven Gloux".

Steven Gloux, Senior Analyst

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Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/05/31-2024/06/30
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/07/16
Report #: R3527676
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C450821

Received: 2024/07/08, 09:30

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
NO2 Passive Analysis	2	2024/07/10	2024/07/16	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/07/10	2024/07/16	PTC SOP-00149	Passive SO2 in ATM

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
16 Jul 2024 12:39:07

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C450821
Report Date: 2024/07/16

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CQT677	CQT678		
Sampling Date		2024/05/31 00:00	2024/05/31 00:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.4	0.4	0.1	B432612
Calculated SO2	ppb	0.4	0.2	0.1	B433955
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C450821
Report Date: 2024/07/16

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

GENERAL COMMENTS

Travel blank result for NO2 exceeded acceptance criteria of >RDL. Possible contamination may have occurred. Sample results have been blank subtracted. S1T (2024/07/03)

Results relate only to the items tested.



Bureau Veritas Job #: C450821
Report Date: 2024/07/16

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B432612	S1T	Spiked Blank	Calculated NO2			102	%	90 - 110
B432612	S1T	Method Blank	Calculated NO2		<0.1		ppb	
B433955	OZ	Spiked Blank	Calculated SO2			99	%	90 - 110
B433955	OZ	Method Blank	Calculated SO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C450821
Report Date: 2024/07/16

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Steven Gloux".

Steven Gloux, Senior Analyst

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Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/03/30-2024/04/28
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/05/29
Report #: R3505715
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C435506

Received: 2024/05/17, 09:30

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
NO2 Passive Analysis	2	2024/05/23	2024/05/28	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/05/21	2024/05/28	PTC SOP-00149	Passive SO2 in ATM

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
29 May 2024 10:58:33

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C435506
Report Date: 2024/05/29

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CNT147	CNT148		
Sampling Date		2024/03/30 12:00	2024/03/30 12:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.7	0.4	0.1	B376714
Calculated SO2	ppb	0.2	<0.1	0.1	B374428
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C435506
Report Date: 2024/05/29

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C435506
Report Date: 2024/05/29

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B374428	OZ	Spiked Blank	Calculated SO2			99	%	90 - 110
B374428	OZ	Method Blank	Calculated SO2		<0.1		ppb	
B376714	S1T	Spiked Blank	Calculated NO2			97	%	90 - 110
B376714	S1T	Method Blank	Calculated NO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C435506
Report Date: 2024/05/29

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Steven Gloux".

Steven Gloux, Senior Analyst

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Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/04/28-2024/05/31
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/06/19
Report #: R3515677
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C441704

Received: 2024/06/07, 09:30

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
NO2 Passive Analysis	2	2024/06/10	2024/06/17	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/06/11	2024/06/17	PTC SOP-00149	Passive SO2 in ATM

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
19 Jun 2024 10:46:42

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Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		COX182	COX183		
Sampling Date		2024/04/28 00:00	2024/04/28 00:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.5	0.2	0.1	B396918
Calculated SO2	ppb	<0.1	<0.1	0.1	B398089
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B396918	S1T	Spiked Blank	Calculated NO2			99	%	90 - 110
B396918	S1T	Method Blank	Calculated NO2		<0.1		ppb	
B398089	OZ	Spiked Blank	Calculated SO2			98	%	90 - 110
B398089	OZ	Method Blank	Calculated SO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C441704
Report Date: 2024/06/19

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Steven Gloux".

Steven Gloux, Senior Analyst

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6744 - 50 St, Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Page 7 of 11

Invoice To	
Company Name	ALS Environmental
Contact Name	
Address	
City/Postal Code	
Phone/Fax#	

Report To
Name & Email Address
Robyn Lloyd.
Robyn.Lloyd@newgod.com

Service Requested

☐ RUSH
(Please contact for TAT)

☒ REGULAR

Company Name	ALS
Project Name/LSD	New Gold
	TC111504 2015 6

ANALYTICAL INFORMATION

[illegible]

Notes/Comments: **Client 13251 / Scenario 12539**

Sampled By CC/EO Phone/Email _____ Received By _____ Date/Time 3/02 Project # _____
Date Shipped 2004/07/02 Signature [Signature] 3/02 PO# _____

PTC FCD-00457/4

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New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON POW 1A0

Date Received: 06-JUN-24
Report Date: 28-JUN-24 13:37 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2756101
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Claire Kocharakkal, B.Sc.
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-1 NORTH-TSP-544 Sampled By: Client on 06-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	57800		2300	ug		13-JUN-24	R5982919
L2756101-2 NORTH-TSP-545 Sampled By: Client on 12-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	90200		2300	ug		13-JUN-24	R5982919
L2756101-3 NORTH-TSP-546 Sampled By: Client on 18-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	95700		2300	ug		13-JUN-24	R5982919

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-4	NORTH-TSP-547							
Sampled By: Client on 24-MAY-24								
Matrix: Hi Vol Filter								
Miscellaneous Parameters								
Total particulate		23900		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS								
Arsenic (As)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)		79.7		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)		159		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)		5.9		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)		<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)		8.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-5	NORTH-TSP-548							
Sampled By: Client on 30-MAY-24								
Matrix: Hi Vol Filter								
Miscellaneous Parameters								
Total particulate		91800		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS								
Arsenic (As)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)		113		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)		1140		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)		38.1		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)		<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)		25.1		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-6	SOUTH-TSP-544							
Sampled By: Client on 06-MAY-24								
Matrix: Hi Vol Filter								
Miscellaneous Parameters								
Total particulate		66000		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS								
Arsenic (As)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)		115		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)		2180		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)		52.7		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)		3.2		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)		<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)		22.5		5.0	ug	21-JUN-24	24-JUN-24	R5983499

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-7 SOUTH-TSP-545 Sampled By: Client on 12-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	181000		2300	ug		13-JUN-24	R5982919
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	109		4.0	ug	21-JUN-24	24-JUN-24	R5983499
	779		20	ug	21-JUN-24	24-JUN-24	R5983499
	75.6		1.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	54.9		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-8 SOUTH-TSP-546 Sampled By: Client on 18-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	95000		2300	ug		13-JUN-24	R5982919
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	52.7		4.0	ug	21-JUN-24	24-JUN-24	R5983499
	1250		20	ug	21-JUN-24	24-JUN-24	R5983499
	45.0		1.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	14.5		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-9 SOUTH-TSP-547 Sampled By: Client on 24-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	22900		2300	ug		13-JUN-24	R5982919
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	86.0		4.0	ug	21-JUN-24	24-JUN-24	R5983499
	221		20	ug	21-JUN-24	24-JUN-24	R5983499
	7.0		1.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	5.5		5.0	ug	21-JUN-24	24-JUN-24	R5983499

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-10	SOUTH-TSP-548							
Sampled By: Client on 30-MAY-24								
Matrix: Hi Vol Filter								
Miscellaneous Parameters								
Total particulate		111000		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS								
Arsenic (As)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)		81.9		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)		1920		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)		46.8		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)		<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)		14.9		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-11	NORTHWEST-TSP-544							
Sampled By: Client on 06-MAY-24								
Matrix: Hi Vol Filter								
Miscellaneous Parameters								
Total particulate		227000		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS								
Arsenic (As)		3.8		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)		3.5		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)		38.7		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)		127		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)		8460		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)		216		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)		18.9		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)		4.7		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)		<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)		15.5		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)		63.9		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-12	NORTHWEST-TSP-545							
Sampled By: Client on 12-MAY-24								
Matrix: Hi Vol Filter								
Miscellaneous Parameters								
Total particulate		109000		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS								
Arsenic (As)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)		<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)		214		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)		1040		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)		77.0		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)		<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)		<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)		<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)		52.2		5.0	ug	21-JUN-24	24-JUN-24	R5983499

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-13 NORTHWEST-TSP-546 Sampled By: Client on 18-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	90000		2300	ug		13-JUN-24	R5982919
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	96.8		4.0	ug	21-JUN-24	24-JUN-24	R5983499
	954		20	ug	21-JUN-24	24-JUN-24	R5983499
	45.5		1.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	17.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-14 NORTHWEST-TSP-547 Sampled By: Client on 24-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	56300		2300	ug		13-JUN-24	R5982919
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	6.3		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	75.2		4.0	ug	21-JUN-24	24-JUN-24	R5983499
	1240		20	ug	21-JUN-24	24-JUN-24	R5983499
	33.4		1.0	ug	21-JUN-24	24-JUN-24	R5983499
	3.2		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	15.2		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-15 NORTHWEST-TSP-548 Sampled By: Client on 30-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	53400		2300	ug		13-JUN-24	R5982919
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	162		4.0	ug	21-JUN-24	24-JUN-24	R5983499
	572		20	ug	21-JUN-24	24-JUN-24	R5983499
	19.8		1.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
	13.8		5.0	ug	21-JUN-24	24-JUN-24	R5983499

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-16 TSP-TRIP BLANK-MAY Sampled By: Client on 31-MAY-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		13-JUN-24	R5982919
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Cadmium (Cd)	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Cobalt (Co)	<2.0		2.0	ug	21-JUN-24	24-JUN-24	R5983499
Chromium (Cr)	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Copper (Cu)	<4.0		4.0	ug	21-JUN-24	24-JUN-24	R5983499
Iron (Fe)	31		20	ug	21-JUN-24	24-JUN-24	R5983499
Manganese (Mn)	<1.0		1.0	ug	21-JUN-24	24-JUN-24	R5983499
Nickel (Ni)	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Lead (Pb)	<3.0		3.0	ug	21-JUN-24	24-JUN-24	R5983499
Selenium (Se)	<10		10	ug	21-JUN-24	24-JUN-24	R5983499
Vanadium (V)	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
Zinc (Zn)	<5.0		5.0	ug	21-JUN-24	24-JUN-24	R5983499
L2756101-17 NORTH-PM2.5-544 Sampled By: Client on 06-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	57		15	ug		14-JUN-24	R5982998
L2756101-18 NORTH-PM2.5-545 Sampled By: Client on 12-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	580		15	ug		14-JUN-24	R5982998
L2756101-19 NORTH-PM2.5-546 Sampled By: Client on 18-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		14-JUN-24	R5982998
L2756101-20 NORTH-PM2.5-547 Sampled By: Client on 24-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		14-JUN-24	R5982998
L2756101-21 NORTH-PM2.5-548 Sampled By: Client on 30-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	63		15	ug		14-JUN-24	R5982998
L2756101-22 SOUTH-PM2.5-544 Sampled By: Client on 06-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	22		15	ug		14-JUN-24	R5982998
L2756101-23 SOUTH-PM2.5-545 Sampled By: Client on 12-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756101-23 SOUTH-PM2.5-545 Sampled By: Client on 12-MAY-24 Matrix: 47mm Filter Total particulate	619		15	ug		14-JUN-24	R5982998
L2756101-24 SOUTH-PM2.5-546 Sampled By: Client on 18-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	47		15	ug		14-JUN-24	R5982998
L2756101-25 SOUTH-PM2.5-547 Sampled By: Client on 24-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	38		15	ug		14-JUN-24	R5982998
L2756101-26 SOUTH-PM2.5-548 Sampled By: Client on 30-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	46		15	ug		14-JUN-24	R5982998
L2756101-27 NORTHWEST-PM2.5-544 Sampled By: Client on 06-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	95		15	ug		14-JUN-24	R5982998
L2756101-28 NORTHWEST-PM2.5-545 Sampled By: Client on 12-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	625		15	ug		14-JUN-24	R5982998
L2756101-29 NORTHWEST-PM2.5-546 Sampled By: Client on 18-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	55		15	ug		14-JUN-24	R5982998
L2756101-30 NORTHWEST-PM2.5-547 Sampled By: Client on 24-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	33		15	ug		14-JUN-24	R5982998
L2756101-31 NORTHWEST-PM2.5-548 Sampled By: Client on 30-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	76		15	ug		14-JUN-24	R5982998
L2756101-32 PM2.5-TRIP BLANK-MAY Sampled By: Client on 31-MAY-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		14-JUN-24	R5982998

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
MET-IO3.5-MS-BU	Filter	Metals on High Volume Filter by ICPMS	IO3.5
After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.			
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2756101

Report Date: 28-JUN-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project

24 Marr Rd

Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU		Filter						
Batch	R5983499							
WG3789692-3	DUP	L2756101-1						
Arsenic (As)		<3.0	<3.0	RPD-NA	ug	N/A	20	24-JUN-24
Cadmium (Cd)		<2.0	<2.0	RPD-NA	ug	N/A	20	24-JUN-24
Cobalt (Co)		<2.0	<2.0	RPD-NA	ug	N/A	20	24-JUN-24
Chromium (Cr)		<5.0	<5.0	RPD-NA	ug	N/A	20	24-JUN-24
Copper (Cu)		126	104		ug	19	20	24-JUN-24
Iron (Fe)		1180	1040		ug	12	25	24-JUN-24
Manganese (Mn)		36.0	30.6		ug	16	20	24-JUN-24
Nickel (Ni)		<3.0	<3.0	RPD-NA	ug	N/A	20	24-JUN-24
Lead (Pb)		<3.0	<3.0	RPD-NA	ug	N/A	20	24-JUN-24
Selenium (Se)		<10	<10	RPD-NA	ug	N/A	20	24-JUN-24
Vanadium (V)		<5.0	<5.0	RPD-NA	ug	N/A	20	24-JUN-24
Zinc (Zn)		24.8	20.2	J	ug	4.5	10	24-JUN-24
WG3789692-2	LCS							
Arsenic (As)			105.0		%		80-120	24-JUN-24
Cadmium (Cd)			104.8		%		80-120	24-JUN-24
Cobalt (Co)			105.0		%		80-120	24-JUN-24
Chromium (Cr)			99.6		%		80-120	24-JUN-24
Copper (Cu)			102.0		%		80-120	24-JUN-24
Iron (Fe)			106.6		%		80-120	24-JUN-24
Manganese (Mn)			102.0		%		80-120	24-JUN-24
Nickel (Ni)			103.0		%		80-120	24-JUN-24
Lead (Pb)			99.8		%		80-120	24-JUN-24
Selenium (Se)			109.0		%		80-120	24-JUN-24
Vanadium (V)			101.0		%		80-120	24-JUN-24
Zinc (Zn)			104.0		%		80-120	24-JUN-24
WG3789692-1	MB							
Arsenic (As)			<3.0		ug		3	24-JUN-24
Cadmium (Cd)			<0.027		ug		0.027	24-JUN-24
Cobalt (Co)			<0.030		ug		0.03	24-JUN-24
Chromium (Cr)			<3.4		ug		3.4	24-JUN-24
Copper (Cu)			<1.0		ug		1	24-JUN-24
Iron (Fe)			12	B	ug		12	24-JUN-24
Manganese (Mn)			<0.45		ug		0.45	24-JUN-24
Nickel (Ni)			<0.25		ug		0.25	24-JUN-24
Lead (Pb)			<0.12		ug		0.12	24-JUN-24



Quality Control Report

Workorder: L2756101

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU								
Filter								
Batch R5983499								
WG3789692-1 MB								
Selenium (Se)			<1.3		ug		1.25	24-JUN-24
Vanadium (V)			<5.0		ug		10	24-JUN-24
Zinc (Zn)			<4.5		ug		4.5	24-JUN-24
WG3789692-4 MS								
Arsenic (As)		L2756101-1	111.2		%		75-125	24-JUN-24
Cadmium (Cd)			117.6		%		75-125	24-JUN-24
Cobalt (Co)			110.9		%		75-125	24-JUN-24
Chromium (Cr)			104.1		%		75-125	24-JUN-24
Copper (Cu)			N/A	MS-B	%		-	24-JUN-24
Iron (Fe)			N/A	MS-B	%		-	24-JUN-24
Manganese (Mn)			100.0		%		75-125	24-JUN-24
Nickel (Ni)			106.8		%		75-125	24-JUN-24
Lead (Pb)			84.3		%		75-125	24-JUN-24
Selenium (Se)			95.4		%		75-125	24-JUN-24
Vanadium (V)			103.9		%		75-125	24-JUN-24
Zinc (Zn)			101.5		%		75-125	24-JUN-24
PART-HIVOL-GRAV-BU								
Filter								
Batch R5982919								
WG3789580-3 DUP								
Total particulate		L2756101-1 57800	57800		ug	0.0	5	13-JUN-24
WG3789580-1 MB								
Total particulate			<100		ug		100	13-JUN-24
PART-M212 F-GRAV-BU								
Filter								
Batch R5982998								
WG3789595-3 DUP								
Total particulate		L2756101-17 57	57		ug	0.0	10	14-JUN-24
WG3789595-1 MB								
Total particulate			<15		ug		15	14-JUN-24

Quality Control Report

Workorder: L2756101

Report Date: 28-JUN-24

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

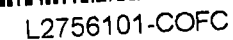
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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[illegible]



Sample Receipt Confirmation

33 Samples received at ALS in BURLINGTON

Job Reference #: N/A

Project PO #: 4700003553

Legal Site Description: N/A

Quote #: Q77307

Lab Work Order #: L2756101

Estimated Completion Date: 6/28/2024

Date Sampled: 5/6/2024

Date Received: 6/6/2024

Sampled By: Client

Chain of Custody: N/A

Account Manager: Claire Kocharakkal, B.Sc.

Estimated Sample Disposal Date: See Sample Disposal Information section below.

Sample Integrity Observations: No observations were identified for this work order submission.

Report Distribution:

Company Name: New Gold Inc. Rainy River Project

Contact: Robyn Lloyd

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Barwick, ON P0W 1A0

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robyn.lloyd@newgold.com

Project #: N/A

Account #: GOLD100

Distribution: **Hard Copy:** Y **Email:** Y

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2756101-1	NORTH-TSP-544	5/6/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-2	NORTH-TSP-545	5/12/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-3	NORTH-TSP-546	5/18/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-4	NORTH-TSP-547	5/24/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-5	NORTH-TSP-548	5/30/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-6	SOUTH-TSP-544	5/6/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-7	SOUTH-TSP-545	5/12/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-8	SOUTH-TSP-546	5/18/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter

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Sample Receipt Confirmation

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2756101-9	SOUTH-TSP-547	5/24/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-10	SOUTH-TSP-548	5/30/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-11	NORTHWEST-TSP-544	5/6/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-12	NORTHWEST-TSP-545	5/12/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-13	NORTHWEST-TSP-546	5/18/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-14	NORTHWEST-TSP-547	5/24/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-15	NORTHWEST-TSP-548	5/30/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-16	TSP-TRIP BLANK-MAY	5/31/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		Hi Vol Filter
L2756101-17	NORTH-PM2.5-544	5/6/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-18	NORTH-PM2.5-545	5/12/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-19	NORTH-PM2.5-546	5/18/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-20	NORTH-PM2.5-547	5/24/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-21	NORTH-PM2.5-548	5/30/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-22	SOUTH-PM2.5-544	5/6/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-23	SOUTH-PM2.5-545	5/12/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-24	SOUTH-PM2.5-546	5/18/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-25	SOUTH-PM2.5-547	5/24/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-26	SOUTH-PM2.5-548	5/30/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-27	NORTHWEST-PM2.5-544	5/6/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-28	NORTHWEST-PM2.5-545	5/12/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-29	NORTHWEST-PM2.5-546	5/18/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-30	NORTHWEST-PM2.5-547	5/24/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-31	NORTHWEST-PM2.5-548	5/30/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-32	PM2.5-TRIP BLANK-MAY	5/31/2024 12:00 AM	6/6/2024 3:00 PM	6/28/2024 11:00 PM		47mm Filter
L2756101-33	SUBLETS TO BV		6/6/2024 3:00 PM	6/28/2024 11:00 PM		



Sample Receipt Confirmation

Analysis Requested:

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee	Tracking of out-going shipments.
NORTH-TSP-544	X		X	X		X	
NORTH-TSP-545	X		X	X		X	
NORTH-TSP-546	X		X	X		X	
NORTH-TSP-547	X		X	X		X	
NORTH-TSP-548	X		X	X		X	
SOUTH-TSP-544	X		X	X		X	
SOUTH-TSP-545	X		X	X		X	
SOUTH-TSP-546	X		X	X		X	
SOUTH-TSP-547	X		X	X		X	
SOUTH-TSP-548	X		X	X		X	
NORTHWEST-TSP-544	X		X	X		X	
NORTHWEST-TSP-545	X		X	X		X	
NORTHWEST-TSP-546	X		X	X		X	
NORTHWEST-TSP-547	X		X	X		X	
NORTHWEST-TSP-548	X		X	X		X	
TSP-TRIP BLANK-MAY	X		X	X		X	
NORTH-PM2.5-544		X			X	X	
NORTH-PM2.5-545		X			X	X	
NORTH-PM2.5-546		X			X	X	



Sample Receipt Confirmation

**Analysis
Requested:**

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee	Tracking of out-going shipments.
NORTH-PM2.5-547		X			X	X	
NORTH-PM2.5-548		X			X	X	
SOUTH-PM2.5-544		X			X	X	
SOUTH-PM2.5-545		X			X	X	
SOUTH-PM2.5-546		X			X	X	
SOUTH-PM2.5-547		X			X	X	
SOUTH-PM2.5-548		X			X	X	
NORTHWEST-PM2.5-544		X			X	X	
NORTHWEST-PM2.5-545		X			X	X	
NORTHWEST-PM2.5-546		X			X	X	
NORTHWEST-PM2.5-547		X			X	X	
NORTHWEST-PM2.5-548		X			X	X	
PM2.5-TRIP BLANK-MAY		X			X	X	
SUBLETS TO BV						X	X



Sample Receipt Confirmation

Sample Disposal Information:

Where possible, ALS will store samples for the following durations, measured from date of sample submission: 45 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.

For information about ALS accreditations and certifications please contact your Account Manager or visit our webpage at www.alsglobal.com (see Canada downloads).

ALS Group strives to deliver on-time results to our clients at all times. However, there are times when due to capacity issues or other unforeseen circumstances we are unable to meet our expected turnaround times. The information above is related to a recent workorder you have submitted to our laboratory. In the event that you have an inquiry, please refer to the Lab Work Order # L2756101 when calling your Account Manager.

ALS Group appreciates your business. Thank you for the opportunity to work with you.



New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON P0W 1A0

Date Received: 05-JUL-24
Report Date: 26-JUL-24 12:27 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2756534
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Claire Kocharakkal, B.Sc.
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-1 NORTH-TSP-549 Sampled By: Client on 05-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	74700		2300	ug		11-JUL-24	R5984298
L2756534-2 NORTH-TSP-550 Sampled By: Client on 11-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	57000		2300	ug		11-JUL-24	R5984298
L2756534-3 NORTH-TSP-551 Sampled By: Client on 17-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	66300		2300	ug		11-JUL-24	R5984298

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-4 NORTH-TSP-552 Sampled By: Client on 23-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	37100		2300	ug		11-JUL-24	R5984298
L2756534-5 NORTH-TSP-553 Sampled By: Client on 29-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	22700		2300	ug		11-JUL-24	R5984298
L2756534-6 SOUTH-TSP-549 Sampled By: Client on 05-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	79000		2300	ug		11-JUL-24	R5984298

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-7 SOUTH-TSP-550 Sampled By: Client on 11-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	47100		2300	ug		11-JUL-24	R5984298
L2756534-8 SOUTH-TSP-551 Sampled By: Client on 17-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	65600		2300	ug		11-JUL-24	R5984298
L2756534-9 SOUTH-TSP-552 Sampled By: Client on 23-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	76300		2300	ug		11-JUL-24	R5984298

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-10 SOUTH-TSP-553 Sampled By: Client on 29-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	62100		2300	ug		11-JUL-24	R5984298
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
	138		4.0	ug	23-JUL-24	24-JUL-24	R5985119
	1260		20	ug	23-JUL-24	24-JUL-24	R5985119
	45.5		1.0	ug	23-JUL-24	24-JUL-24	R5985119
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	5.7		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<10		10	ug	23-JUL-24	24-JUL-24	R5985119
	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
	30.4		5.0	ug	23-JUL-24	24-JUL-24	R5985119
L2756534-11 NORTHWEST-TSP-549 Sampled By: Client on 05-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	63500		2300	ug		11-JUL-24	R5984298
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
	195		4.0	ug	23-JUL-24	24-JUL-24	R5985119
	1020		20	ug	23-JUL-24	24-JUL-24	R5985119
	38.8		1.0	ug	23-JUL-24	24-JUL-24	R5985119
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<10		10	ug	23-JUL-24	24-JUL-24	R5985119
	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
	19.7		5.0	ug	23-JUL-24	24-JUL-24	R5985119
L2756534-12 NORTHWEST-TSP-550 Sampled By: Client on 11-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	27100		2300	ug		11-JUL-24	R5984298
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
	368		4.0	ug	23-JUL-24	24-JUL-24	R5985119
	316		20	ug	23-JUL-24	24-JUL-24	R5985119
	12.5		1.0	ug	23-JUL-24	24-JUL-24	R5985119
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
	<10		10	ug	23-JUL-24	24-JUL-24	R5985119
	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
	11.3		5.0	ug	23-JUL-24	24-JUL-24	R5985119

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-13 NORTHWEST-TSP-551 Sampled By: Client on 17-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	58300		2300	ug		11-JUL-24	R5984298
L2756534-14 NORTHWEST-TSP-552 Sampled By: Client on 23-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	27400		2300	ug		11-JUL-24	R5984298
L2756534-15 NORTHWEST-TSP-553 Sampled By: Client on 29-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	17200		2300	ug		11-JUL-24	R5984298

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-16 TSP-JUNE TRIP BLANK Sampled By: Client on 30-JUN-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		11-JUL-24	R5984298
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
Cadmium (Cd)	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
Cobalt (Co)	<2.0		2.0	ug	23-JUL-24	24-JUL-24	R5985119
Chromium (Cr)	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
Copper (Cu)	<4.0		4.0	ug	23-JUL-24	24-JUL-24	R5985119
Iron (Fe)	23		20	ug	23-JUL-24	24-JUL-24	R5985119
Manganese (Mn)	<1.0		1.0	ug	23-JUL-24	24-JUL-24	R5985119
Nickel (Ni)	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
Lead (Pb)	<3.0		3.0	ug	23-JUL-24	24-JUL-24	R5985119
Selenium (Se)	<10		10	ug	23-JUL-24	24-JUL-24	R5985119
Vanadium (V)	<5.0		5.0	ug	23-JUL-24	24-JUL-24	R5985119
Zinc (Zn)	7.8		5.0	ug	23-JUL-24	24-JUL-24	R5985119
L2756534-17 NORTH-PM2.5-549 Sampled By: Client on 05-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	42		15	ug		10-JUL-24	R5984257
L2756534-18 NORTH-PM2.5-550 Sampled By: Client on 11-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	39		15	ug		10-JUL-24	R5984257
L2756534-19 NORTH-PM2.5-551 Sampled By: Client on 17-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	20		15	ug		10-JUL-24	R5984257
L2756534-20 NORTH-PM2.5-552 Sampled By: Client on 23-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	60		15	ug		10-JUL-24	R5984257
L2756534-21 NORTH-PM2.5-553 Sampled By: Client on 29-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	23		15	ug		10-JUL-24	R5984257
L2756534-22 SOUTH-PM2.5-549 Sampled By: Client on 05-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	61		15	ug		10-JUL-24	R5984257
L2756534-23 SOUTH-PM2.5-550 Sampled By: Client on 11-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756534-23 SOUTH-PM2.5-550 Sampled By: Client on 11-JUN-24 Matrix: 47mm Filter Total particulate	45		15	ug		10-JUL-24	R5984257
L2756534-24 SOUTH-PM2.5-551 Sampled By: Client on 17-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		10-JUL-24	R5984257
L2756534-25 SOUTH-PM2.5-552 Sampled By: Client on 23-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	40		15	ug		10-JUL-24	R5984257
L2756534-26 SOUTH-PM2.5-553 Sampled By: Client on 29-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	18		15	ug		10-JUL-24	R5984257
L2756534-27 NORTHWEST-PM2.5-549 Sampled By: Client on 05-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	55		15	ug		10-JUL-24	R5984257
L2756534-28 NORTHWEST-PM2.5-550 Sampled By: Client on 11-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	66		15	ug		10-JUL-24	R5984257
L2756534-29 NORTHWEST-PM2.5-551 Sampled By: Client on 17-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	74		15	ug		10-JUL-24	R5984257
L2756534-30 NORTHWEST-PM2.5-552 Sampled By: Client on 23-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	59		15	ug		10-JUL-24	R5984257
L2756534-31 NORTHWEST-PM2.5-553 Sampled By: Client on 29-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		10-JUL-24	R5984257
L2756534-32 PM2.5-JUNE TRIP BLANK Sampled By: Client on 30-JUN-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		10-JUL-24	R5984257

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
MET-IO3.5-MS-BU	Filter	Metals on High Volume Filter by ICPMS	IO3.5
After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.			
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2756534

Report Date: 26-JUL-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU		Filter						
Batch	R5985119							
WG3789991-3	DUP	L2756534-1						
Arsenic (As)		<3.0	<3.0	RPD-NA	ug	N/A	20	24-JUL-24
Cadmium (Cd)		<2.0	<2.0	RPD-NA	ug	N/A	20	24-JUL-24
Cobalt (Co)		<2.0	<2.0	RPD-NA	ug	N/A	20	24-JUL-24
Chromium (Cr)		<5.0	<5.0	RPD-NA	ug	N/A	20	24-JUL-24
Copper (Cu)		100	107		ug	6.5	20	24-JUL-24
Iron (Fe)		1090	1210		ug	9.8	25	24-JUL-24
Manganese (Mn)		45.5	50.9		ug	11	20	24-JUL-24
Nickel (Ni)		<3.0	<3.0	RPD-NA	ug	N/A	20	24-JUL-24
Lead (Pb)		<3.0	<3.0	RPD-NA	ug	N/A	20	24-JUL-24
Selenium (Se)		<10	<10	RPD-NA	ug	N/A	20	24-JUL-24
Vanadium (V)		<5.0	<5.0	RPD-NA	ug	N/A	20	24-JUL-24
Zinc (Zn)		32.2	27.7		ug	15	20	24-JUL-24
WG3789991-2	LCS							
Arsenic (As)			108.0		%		80-120	24-JUL-24
Cadmium (Cd)			109.0		%		80-120	24-JUL-24
Cobalt (Co)			105.0		%		80-120	24-JUL-24
Chromium (Cr)			106.0		%		80-120	24-JUL-24
Copper (Cu)			108.0		%		80-120	24-JUL-24
Iron (Fe)			107.0		%		80-120	24-JUL-24
Manganese (Mn)			101.0		%		80-120	24-JUL-24
Nickel (Ni)			106.0		%		80-120	24-JUL-24
Lead (Pb)			109.0		%		80-120	24-JUL-24
Selenium (Se)			104.0		%		80-120	24-JUL-24
Vanadium (V)			104.0		%		80-120	24-JUL-24
Zinc (Zn)			107.5		%		80-120	24-JUL-24
WG3789991-1	MB							
Arsenic (As)			<3.0		ug		3	24-JUL-24
Cadmium (Cd)			<0.027		ug		0.027	24-JUL-24
Cobalt (Co)			<0.030		ug		0.03	24-JUL-24
Chromium (Cr)			<3.4		ug		3.4	24-JUL-24
Copper (Cu)			<1.0		ug		1	24-JUL-24
Iron (Fe)			<12		ug		12	24-JUL-24
Manganese (Mn)			<0.45		ug		0.45	24-JUL-24
Nickel (Ni)			<0.25		ug		0.25	24-JUL-24
Lead (Pb)			<0.12		ug		0.12	24-JUL-24



Quality Control Report

Workorder: L2756534

Report Date: 26-JUL-24

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU								
Filter								
Batch R5985119								
WG3789991-1 MB								
Selenium (Se)			<1.3		ug		1.25	24-JUL-24
Vanadium (V)			<5.0		ug		10	24-JUL-24
Zinc (Zn)			<4.5		ug		4.5	24-JUL-24
WG3789991-4 MS								
Arsenic (As)		L2756534-1	100.3		%		75-125	24-JUL-24
Cadmium (Cd)			99.9		%		75-125	24-JUL-24
Cobalt (Co)			97.8		%		75-125	24-JUL-24
Chromium (Cr)			97.9		%		75-125	24-JUL-24
Copper (Cu)			N/A	MS-B	%		-	24-JUL-24
Iron (Fe)			N/A	MS-B	%		-	24-JUL-24
Manganese (Mn)			N/A	MS-B	%		-	24-JUL-24
Nickel (Ni)			98.8		%		75-125	24-JUL-24
Lead (Pb)			99.9		%		75-125	24-JUL-24
Selenium (Se)			99.5		%		75-125	24-JUL-24
Vanadium (V)			94.8		%		75-125	24-JUL-24
Zinc (Zn)			89.8		%		75-125	24-JUL-24
PART-HIVOL-GRAV-BU								
Filter								
Batch R5984298								
WG3789860-3 DUP								
Total particulate		L2756534-1 74700	74700		ug	0.0	5	11-JUL-24
WG3789860-1 MB								
Total particulate			<100		ug		100	11-JUL-24
PART-M212 F-GRAV-BU								
Filter								
Batch R5984257								
WG3789820-3 DUP								
Total particulate		L2756534-17 42	42		ug	0.0	10	10-JUL-24
WG3789820-1 MB								
Total particulate			<15		ug		15	10-JUL-24

Quality Control Report

Workorder: L2756534

Report Date: 26-JUL-24

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

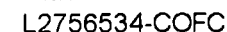
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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[illegible]



Sample Receipt Confirmation

33 Samples received at ALS in BURLINGTON

Job Reference #: N/A

Project PO #: 4700003553

Legal Site Description: N/A

Quote #: Q77307

Lab Work Order #: L2756534

Estimated Completion Date: 7/26/2024

Date Sampled: 6/5/2024

Date Received: 7/5/2024

Sampled By: Client

Chain of Custody: N/A

Account Manager: Claire Kocharakkal, B.Sc.

Estimated Sample Disposal Date: See Sample Disposal Information section below.

Sample Integrity Observations:

Observation

Discrepancy between CofC and label

Details

CoC: TSP/PM2.5-544 thru 548

Labels: TSP/PM2.5-549 thru 553

Report Distribution:

Company Name: New Gold Inc. Rainy River Project

Contact: Robyn Lloyd

Address: 24 Marr Rd

Barwick, ON P0W 1A0

Phone: 807-234-8200

Fax: --

Email: robyn.lloyd@newgold.com
Garnet.Cornell@newgold.com
rainyriver.labresults@newgold.com
ssabanathan@trinityconsultants.com
varshini.padmanabhan@trinityconsultants.com

EDD Email: robyn.lloyd@newgold.com
Garnet.Cornell@newgold.com
rainyriver.labresults@newgold.com

Distribution: **Hard Copy:** N **Email:** Y **Fax:** N

EDD: Y

Invoice Distribution:

Acct Name: New Gold Inc. Rainy River Project

Contact: Garnet Cornell

Address: 5967 Highway 11/71, P.O. Box 5

Emo, ON, P0W 1E0

Phone: 807-234-8200

Fax: 807-482-2834

Invoice Email: rainyriver.labresults@newgold.com
rainyriver.accounts@newgold.com
Garnet.Cornell@newgold.com
robyn.lloyd@newgold.com

Project #: N/A

Account #: GOLD100

Distribution: **Hard Copy:** Y **Email:** Y

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2756534-1	NORTH-TSP-549	6/5/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-2	NORTH-TSP-550	6/11/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-3	NORTH-TSP-551	6/17/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-4	NORTH-TSP-552	6/23/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-5	NORTH-TSP-553	6/29/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-6	SOUTH-TSP-549	6/5/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567

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Sample Receipt Confirmation

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2756534-7	SOUTH-TSP-550	6/11/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-8	SOUTH-TSP-551	6/17/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-9	SOUTH-TSP-552	6/23/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-10	SOUTH-TSP-553	6/29/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-11	NORTHWEST-TSP-549	6/5/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-12	NORTHWEST-TSP-550	6/11/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-13	NORTHWEST-TSP-551	6/17/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-14	NORTHWEST-TSP-552	6/23/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-15	NORTHWEST-TSP-553	6/29/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-16	TSP-JUNE TRIP BLANK	6/30/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		Hi Vol Filter
L2756534-17	NORTH-PM2.5-549	6/5/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-18	NORTH-PM2.5-550	6/11/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-19	NORTH-PM2.5-551	6/17/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-20	NORTH-PM2.5-552	6/23/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-21	NORTH-PM2.5-553	6/29/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-22	SOUTH-PM2.5-549	6/5/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-23	SOUTH-PM2.5-550	6/11/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-24	SOUTH-PM2.5-551	6/17/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-25	SOUTH-PM2.5-552	6/23/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-26	SOUTH-PM2.5-553	6/29/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-27	NORTHWEST-PM2.5-549	6/5/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-28	NORTHWEST-PM2.5-550	6/11/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-29	NORTHWEST-PM2.5-551	6/17/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-30	NORTHWEST-PM2.5-552	6/23/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-31	NORTHWEST-PM2.5-553	6/29/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-32	PM2.5-JUNE TRIP BLANK	6/30/2024 12:00 AM	7/5/2024 12:15 PM	7/26/2024 11:00 PM		47mm Filter
L2756534-33	SUBLET TO BV		7/5/2024 12:15 PM	7/26/2024 11:00 PM		



Sample Receipt Confirmation

Analysis Requested:

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee	Tracking of out-going shipments.
NORTH-TSP-549	X		X	X		X	
NORTH-TSP-550	X		X	X		X	
NORTH-TSP-551	X		X	X		X	
NORTH-TSP-552	X		X	X		X	
NORTH-TSP-553	X		X	X		X	
SOUTH-TSP-549	X		X	X		X	
SOUTH-TSP-550	X		X	X		X	
SOUTH-TSP-551	X		X	X		X	
SOUTH-TSP-552	X		X	X		X	
SOUTH-TSP-553	X		X	X		X	
NORTHWEST-TSP-549	X		X	X		X	
NORTHWEST-TSP-550	X		X	X		X	
NORTHWEST-TSP-551	X		X	X		X	
NORTHWEST-TSP-552	X		X	X		X	
NORTHWEST-TSP-553	X		X	X		X	
TSP-JUNE TRIP BLANK	X		X	X		X	
NORTH-PM2.5-549		X			X	X	
NORTH-PM2.5-550		X			X	X	
NORTH-PM2.5-551		X			X	X	



Sample Receipt Confirmation

**Analysis
Requested:**

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee	Tracking of out-going shipments.
NORTH-PM2.5-552		X			X	X	
NORTH-PM2.5-553		X			X	X	
SOUTH-PM2.5-549		X			X	X	
SOUTH-PM2.5-550		X			X	X	
SOUTH-PM2.5-551		X			X	X	
SOUTH-PM2.5-552		X			X	X	
SOUTH-PM2.5-553		X			X	X	
NORTHWEST-PM2.5-549		X			X	X	
NORTHWEST-PM2.5-550		X			X	X	
NORTHWEST-PM2.5-551		X			X	X	
NORTHWEST-PM2.5-552		X			X	X	
NORTHWEST-PM2.5-553		X			X	X	
PM2.5-JUNE TRIP BLANK		X			X	X	
SUBLET TO BV						X	X



Sample Receipt Confirmation

Sample Disposal Information:

Where possible, ALS will store samples for the following durations, measured from date of sample submission: 45 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.

For information about ALS accreditations and certifications please contact your Account Manager or visit our webpage at www.alsglobal.com (see Canada downloads).

ALS Group strives to deliver on-time results to our clients at all times. However, there are times when due to capacity issues or other unforeseen circumstances we are unable to meet our expected turnaround times. The information above is related to a recent workorder you have submitted to our laboratory. In the event that you have an inquiry, please refer to the Lab Work Order # L2756534 when calling your Account Manager.

ALS Group appreciates your business. Thank you for the opportunity to work with you.

APPENDIX D: HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS



Site Information

Location: North Station	Site ID: 145	Date: 8-May-24
Sampler: E-5170 MFC	Serial No: 367	Tech: Robyn Lloyd/ Kari Larson

Site Conditions

Barometric Pressure (in Hg): 28.54	Corrected Pressure (mm Hg): 722
Temperature (deg F): 69	Temperature (deg K): 294
Average Press. (in Hg): 28.54	Corrected Average (mm Hg): 723
Average Temp. (deg F): 69	Average Temp. (deg K): 294

Calibration Orifice

Make: Tisch	Qstd Slope: 1.68695
Model: TE-5028	Qstd Intercept: -0.04137
Serial#: 3662	Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.18	0.884	38.0	37.32	Slope: 31.7581
2	2.43	0.932	40.0	39.28	Intercept: 9.5228
3	2.73	0.986	42.0	41.25	Corr. Coeff: 0.9947
4	3.24	1.072	44.0	43.21	
5	3.54	1.120	46.0	45.18	# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)] - b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0 Average Flow Calculation m3/min 1.061793225 Average Flow Calculation in CFM 37.49191877 Sample Time (Hrs): 24.0 Total Flow in m3/min 1528.982244 Total Flow in CFM 53988.36303

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: North	Site ID: 145	Date: 8-Jul-24
Sampler: E-5170 MFC	Serial No: 367	Tech: Robyn Lloyd/ Heba Joseph

Site Conditions

Barometric Pressure (in Hg): 28.54	Corrected Pressure (mm Hg): 720
Temperature (deg F): 71	Temperature (deg K): 295
Average Press. (in Hg): 28.54	Corrected Average (mm Hg): 720
Average Temp. (deg F): 71	Average Temp. (deg K): 295

Calibration Orifice

Make: Tisch	Qstd Slope: 1.68695
Model: TE-5028	Qstd Intercept: -0.04137
Serial#: 3662	Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.61	0.962	38.0	37.20	Slope: 35.2412
2	2.91	1.014	40.0	39.16	Intercept: 3.3963
3	3.20	1.063	42.0	41.12	Corr. Coeff: 0.9980
4	3.65	1.133	44.0	43.07	
5	3.96	1.179	46.0	45.03	# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)] - b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0 Average Flow Calculation m3/min 1.125858333 Average Flow Calculation in CFM 39.75405773 Sample Time (Hrs): 24.0 Total Flow in m3/min 1621.235999 Total Flow in CFM 57245.84313

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: Northwest Station	Site ID: 145	Date: 8-May-24
Sampler: E-5170 MFC	Serial No: 367	Tech: Robyn Lloyd/ Kari Larson

Site Conditions

Barometric Pressure (in Hg): 28.54	Corrected Pressure (mm Hg): 723
Temperature (deg F): 60	Temperature (deg K): 289
Average Press. (in Hg): 28.54	Corrected Average (mm Hg): 723
Average Temp. (deg F): 60	Average Temp. (deg K): 289

Calibration Orifice

Make: Tisch	Qstd Slope: 1.68695
Model: TE-5028	Qstd Intercept: -0.04137
Serial#: 3662	Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.40	0.935	38.0	37.66	Slope: 26.0443
2	2.85	1.016	40.0	39.64	Intercept: 13.3494
3	3.24	1.082	42.0	41.63	Corr. Coeff: 0.9972
4	3.66	1.149	44.0	43.61	
5	4.33	1.247	46.0	45.59	# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)] - b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0
 Average Flow Calculation m3/min
 1.161848533
 Average Flow Calculation in CFM
 41.0248717
 Sample Time (Hrs): 24.0
 Total Flow in m3/min
 1673.061888
 Total Flow in CFM
 59075.81525

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: Northwest
Sampler: E-5170 MFC

Site ID: 145
Serial No: 367

Date: 9-Jul-24
Tech: Robyn Lloyd

Site Conditions

Barometric Pressure (in Hg): 28.54
Temperature (deg F): 53
Average Press. (in Hg): 28.54
Average Temp. (deg F): 59

Corrected Pressure (mm Hg): 730
Temperature (deg K): 284
Corrected Average (mm Hg): 730
Average Temp. (deg K): 288

Calibration Orifice

Make: Tisch
Model: TE-5028
Serial#: 3662

Qstd Slope: 1.68695
Qstd Intercept: -0.04137
Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	3.43	1.126	38.0	38.12	Slope: 33.8615
2	3.65	1.161	40.0	40.13	Intercept: 0.4488
3	4.08	1.226	42.0	42.14	Corr. Coeff: 0.9946
4	4.51	1.287	44.0	44.14	
5	5.01	1.356	46.0	46.15	
					# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std})(T_{std}/T_a))-b]$$

$$IC = I[\text{Sqrt}(P_a/P_{std})(T_{std}/T_a)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/T_a)(P_a/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

1.282174266

Average Flow Calculation in CFM

45.27357333

Sample Time (Hrs): 24.0

Total Flow in m3/min

1846.330943

Total Flow in CFM

65193.94559

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: South Station	Site ID: 145	Date: 8-May-24
Sampler: E-5170 MFC	Serial No: 367	Tech: Robyn Lloyd/ Kari Larson/ Heba Joseph

Site Conditions

Barometric Pressure (in Hg): 28.54	Corrected Pressure (mm Hg): 719
Temperature (deg F): 71	Temperature (deg K): 295
Average Press. (in Hg): 28.54	Corrected Average (mm Hg): 719
Average Temp. (deg F): 71	Average Temp. (deg K): 295

Calibration Orifice

Make: Tisch	Qstd Slope: 1.68695
Model: TE-5028	Qstd Intercept: -0.04137
Serial#: 3662	Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	3.09	1.044	48.0	46.96	Slope: 29.6096
2	3.74	1.146	50.0	48.92	Intercept: 15.5094
3	2.20	0.885	42.0	41.09	Corr. Coeff: 0.9841
4	2.42	0.927	44.0	43.05	
5	2.71	0.979	46.0	45.01	# of Observations: 5

Calculations

$Qstd = 1/m[\text{Sqrt}(H_2O(Pa/Pstd)(Tstd/Ta))-b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response

m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0
Average Flow Calculation m3/min 0.929721163
Average Flow Calculation in CFM 32.82845427
Sample Time (Hrs): 24.0
Total Flow in m3/min 1338.798475
Total Flow in CFM 47272.97415

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Location: South	Site ID: 145	Date: 8-Jul-24
Sampler: E-5170 MFC	Serial No: 367	Tech: Robyn Lloyd/ Heba Joseph

Site Conditions

Barometric Pressure (in Hg): 28.54	Corrected Pressure (mm Hg): 721
Temperature (deg F): 73	Temperature (deg K): 296
Average Press. (in Hg): 28.54	Corrected Average (mm Hg): 721
Average Temp. (deg F): 73	Average Temp. (deg K): 296

Calibration Orifice

Make: Tisch	Qstd Slope: 1.68695
Model: TE-5028	Qstd Intercept: -0.04137
Serial#: 3662	Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	3.19	1.060	38.0	37.17	Slope: 23.8703
2	3.44	1.100	40.0	39.12	Intercept: 12.2845
3	4.25	1.220	42.0	41.08	Corr. Coeff: 0.9911
4	4.68	1.279	44.0	43.04	
5	5.41	1.373	46.0	44.99	# of Observations: 5

Calculations

Qstd = $1/m[\text{Sqrt}(\text{H2O}(\text{Pa}/\text{Pstd})(\text{Tstd}/\text{Ta})) - b]$
 IC = $I[\text{Sqrt}(\text{Pa}/\text{Pstd})(\text{Tstd}/\text{Ta})]$

Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg
 For subsequent calculation of sampler flow:
 $1/m((I) [\text{Sqrt}(298/\text{Tav})(\text{Pav}/760)] - b)$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

Average I (chart): 44.0
Average Flow Calculation m3/min
 1.28747458
Average Flow Calculation in CFM
 45.46072741
Sample Time (Hrs): 24.0
Total Flow in m3/min
 1853.963395
Total Flow in CFM
 65463.44747

NOTE: Ensure calibration orifice has been certified within 12 months of use

APPENDIX E: SAMPLE EDIT LOGS

APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned
Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason
1	Invalid Sample	April 18 th , 2024	Sample Volume was lower than threshold limit
2	Invalid Sample	April 30 th , 2024	Sample Volume was lower than threshold limit



Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason
1	Invalid Sample	May 12 th , 2024	Sample Volume was lower than threshold limit



Address: Rainy River Mine

Station Name: North (Gallinger Road)

Station Location: North of the Site at Gallinger Road

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason
N/A			

APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Respirable Particulate Matter (PM_{2.5})

Measurement Instrument: PQ200 Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason
			N/A

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North-east of the Site along Gallinger Road

Pollutant/Parameter: Respirable Particulate Matter (PM_{2.5})

Measurement Instrument: PQ200 Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason
1	Invalid Sample	June 17 th , 2024	Sample Volume was not recorded



Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Respirable Particulate Matter (PM_{2.5})

Measurement Instrument: PQ200 Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason
N/A			

APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Dustfall

Measurement Instrument: Passive Sampler Jar

Start Date: October 1, 2023

End Date: December 31, 2023

#	Action	Date	Reason

APPENDIX F: MECP AUDIT

Ministry of the Environment
435 James Street South.
Suite 331
Thunder Bay, ON P7E 6S7

Ministère de l'Environnement
435, rue James sud
Bureau 331
Thunder Bay, ON P7E 6S7



Fax/télécopieur: (807) 475-1754
Phone/ téléphone: (807) 475-1205

Northern Region Technical Support Section – Thunder Bay

June 21, 2024

Robyn Lloyd
Environmental Technician

New Gold Inc.

Rainy River Mine
5967 Highway 11/71, P.O. Box 5
Emo, Ontario, Canada, P0W 1E0
T +1.807.234.8200 ext. 8029
M +1.705.930.7112

Dear Ms. Lloyd:

Re: Air Monitoring Station Audit – Non-Continuous Monitors

On June 20th 2024 your company's stations [1st semi] were audited. Attached is a copy of the Audit record, below is a summary of the results:

1. Tait Road (Station #62054)

Sampler Type	Sampler S/N	% Error	Criteria Met
PQ200 PM2.5	1751	0.6% High	Yes
TSP Tisch	418	5.0% High	Yes
Dustfall Jars			Yes

2. Gallinger Road (Station #62055)

Sampler Type	Sampler S/N	% Error	Criteria Met
PQ200 PM2.5	1752	0.6% Low	Yes
TSP Tisch	4035	2.5% High	Yes
Dustfall Jars			Yes

If you have any questions, do not hesitate to call.

Yours truly,

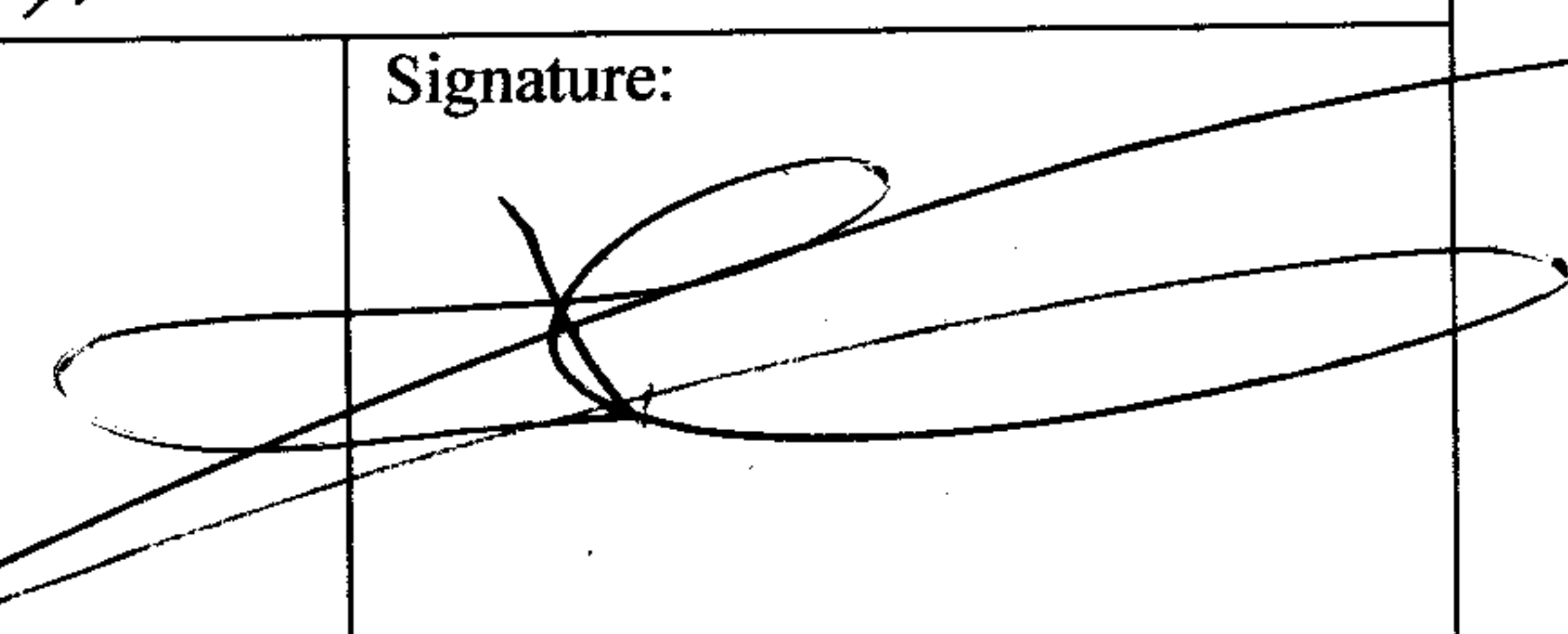
Jim Stachowich
Senior Environmental Officer
Badge #1528
Air, Pesticides and Environmental Planning
Technical Support Section
Northern Region

c: Garnet Cornell New Gold Inc.
c: Jason Tittlemier Senior Environmental Officer, Kenora District Office, MOE
c: File AQ 06 13 Thunder Bay/NewGold Inc./62054/62055/2024/Semi #1

**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Tait Road Site- Str# 62054			
City/Town: Chapple Municipality Ontario			
Site ID #: 62054		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/06/20		Auditor: Jim Stachowich #1528	
Calibrator make BGI		Instrumental serial # 1751	Instrument make BGI PQ200
Calibrator Serial No.		Pollutant PM 2.5	
Accuracy (GPS) +/- 10 meter		Zone 15U	
Easting 0426049		Northing 5406995	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number Tri-cal #1	Manometer type: TC 5	Manometer S/N: 64	
S = slope of the calibration orifice Qamb			
I = intercept of the calibration orifice Qamb			
Ambient Temperature 19°C		Ambient Pressure 737 mm Hg	
Audit Results		Required flow	
Manometer reading (in. of water)		Hi-vol & PM 40 cfm	
True flow calculated result: $\sqrt{MR \times S + I}$ 16.8 16.7 16.8		PAH 30 cfm	
Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$		Dioxins 8 cfm	
Leak Test 16.7		47 mm 16.7 L/M	
Temperature Correction = $\text{SQRT} [298 / (273 + T_a)]$		Ta = AMBIENT TEMP °C	
0.6%			
Comments/observations (also general station conditions and status of logbooks):			
C/KAR + Cal + 18°C			
Action Required (Auditor):		Signature:	
[Signature]		[Signature]	
Action Taken (Auditee):		Signature:	
		[Signature]	

**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Tait Road Site- Stn# 62054			
City/Town: Chapple Municipality Ontario			
Site ID #: 62054		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/06/92		Auditor: Jim Stachowich #1528	
Calibrator make TISCH		Instrumental serial # TE-5007 s/n 418	Instrument make Blower Te-5005 s/n4548
Calibrator Serial No.		Pollutant TSP	
Accuracy (GPS) +/- 10 meter		Zone 15U	
Easting 0426049		Northing 5406995	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number TISCH TE-HVC-V	Manometer type: TISCH	Manometer S/N: 0196	
S = slope of the calibration orifice Qamb 1.31943			
I = intercept of the calibration orifice Qamb -0.01571			
Ambient Temperature		Ambient Pressure 739 mm Hg	
Audit Results 18.4		Required flow	
Manometer reading (in. of water)		Hi-vol & PM	40 cfm
True flow calculated result: $\sqrt{MR \times S + 1}$ 42		PAH	30 cfm
Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ 40		Dioxins	8 cfm
Leak Test 40		47 mm	16.7 L/M
Temperature Correction = $\text{SQRT} [298/(273 \pm T_a)]$		Ta = AMBIENT TEMP °C	
Comments/observations (also general station conditions and status of logbooks):			
Clean + Cool + 14°C			
Action Required (Auditor): W. J. Stachowich		Signature: 	
Action Taken (Auditee):		Signature: Patricia Hagg	

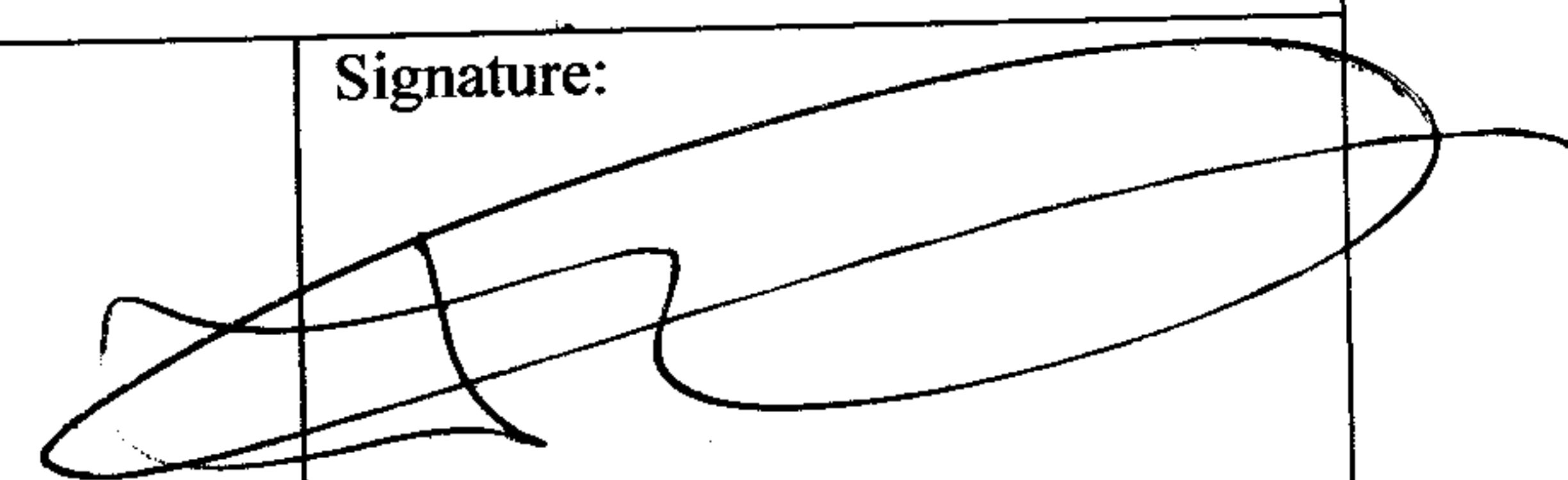
Non-Continuous Instrumentation
Dustfall
Site Audit

Dustfall Site Audit				
Site Name/Address: New Gold Tait Road				
City/Town: Chapples Municipality				
Site ID #: 62054		Operator/Representative: New Gold		
Date (yr/mm/dd): 24/06/20		Auditor: Jim S. [Signature]		
Criteria	Requirements	Observed	Criteria Met?	
			YES	NO
Sampler height	3 m above ground		☒	☐
Distance from Obstructions	270° arc of unrestricted airflow & wind from point source quadrant must be included in arc		☒	☐
	No overhead obstructions (hydro telephone wires) to interfere with particle deposition		☒	☐
Distance from trees	Should be > 20 m from drip line of trees		☒	☐
Distance from road	No nearby unpaved roads & parking lot		☒	☐
Rooftop installation	Avoid building wake effect		☒	☐
	No nearby chimney or flues that could emit particles (soot/coal)		☒	☐
Bracket installation	Should be level & jar must be level in bracket		☒	☐
Ground cover	Should have vegetative cover		☒	☐
Liner	4 mil liner must be used	No Liner	☐	☐
Comments/observations and overall audit opinion:				
Sun 4 plus 19°C				
Action Required (Auditor):		Signature:		
No Major Problems		[Signature]		
Action Taken (Auditee):		Signature:		
		[Signature]		

Appendix 4.3: Meteorological Instrumentation

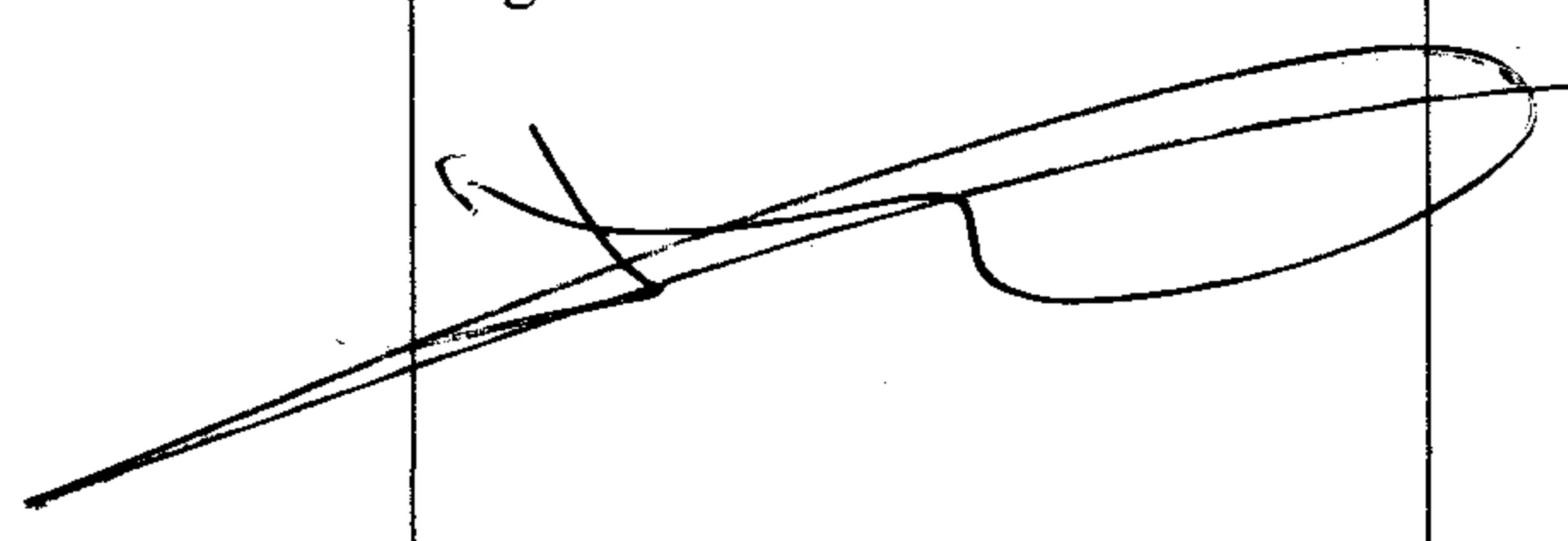
Wind Speed and Direction Site Audit				
Site Name/Address: <i>Barron</i>				
Location (Coordinates): <i>C/Happle Municipality</i>				
Manufacturer and Model of Instrument: <i>Young</i>				
City/Town: <i>C/Happle</i>				
Site ID #: <i>62054</i>		Operator/Representative: <i>N. Per G. L. D.</i>		
Date (yy/mm/dd): <i>24/06/20</i>		Audit performed by: <i>Jim Strickland Program 1528</i>		
Criteria	Requirements	Observed	Criteria met?	
			yes	no
Sensor height	10 m above ground (standard for open level terrain)		✓	
Sensor height (elevated releases)	Near stack top or 100m whichever is lower/feasible		✓	
Distance from Obstructions	> 1H (obstruction height) upwind of obstruction		✓	
	>5-10H downwind of obstruction. Preferentially >10H at a minimum per WMO, justification needed for meeting less (e.g. >5-9H)		✓	
Tower installation	>2 tower widths for boom install		✓	
	>1 tower width above tower for tower mast installation		✓	
Distance from trees	Same as for obstructions mentioned above		✓	
	Should be >10 m above vegetated cover if no open exposure		✓	
Roof top installations	Not recommended; must be >1.5H above building roof		✓	
References: <i>Guide to Meteorological Instruments and Methods of Observation. WMO (2018)</i> <i>Meteorological Monitoring Guidance for Regulatory Modeling Applications. USEPA (2000)</i> <i>Quality Assurance Handbook for Air Pollution Measurement Systems Volume IV: Meteorological Measurements Version 2.0. USEPA (2008)</i>				
Comments/observations (also general station conditions and status of logbooks): All Criteria Met				
Action Required:		Date:		
<i>None/Minor/Revised</i>		<i>June 20/24</i>		
		Signature: <i>[Signature]</i>		
Action Taken:		Date:		
		<i>June 20/2024</i>		
		Signature: <i>Patricia Hagg</i>		

**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Gallinger Road Site- Stn# 62055			
City/Town: Chapple Municipality Ontario			
Site ID #: 62055		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/06/20		Auditor: Jim Stachowich #1528	
Calibrator make BGI		Instrumental serial # 1752	Instrument make BGI PQ200
Calibrator Serial No.		Pollutant PM 2.5	
Accuracy (GPS) +/- 9 meter		Zone 15U	
Easting 0431129		Northing 5410593	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number Tri-cal #1	Manometer type: TC-5	Manometer S/N: 64	
S = slope of the calibration orifice Qamb		~~1.77~~ 5.5	
I = intercept of the calibration orifice Qamb		~~0.0041~~ 5.5	
Ambient Temperature 16°C		Ambient Pressure 736 mm Hg	
Audit Results		Required flow	
Manometer reading (in. of water)		Hi-vol & PM	40 cfm
True flow calculated result: $\sqrt{MR \times S + 1}$ 16.6		PAH	30 cfm
Percent error = $\frac{(\text{true flow value} - \text{required flow})}{\text{required flow}} \times 100$ 16.70		Dioxins	8 cfm
Leak Test		47 mm	16.7 L/M
Temperature Correction = $\text{SQRT} [298 / (273 + T_a)]$		Ta = AMBIENT TEMP °C	
0.6%			
Comments/observations (also general station conditions and status of logbooks):			
Clear + Cool +14°C			
Action Required (Auditor): Nothing		Signature: 	
Action Taken (Auditee):		Signature: 	

**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Gallinger Road Site- Stn# 62055			
City/Town: Chapple Municipality Ontario			
Site ID #: 62055		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/10/21		Auditor: Jim Stachowich #1528	
Calibrator make TISCH		Instrumental serial # TE-5007 s/n4035	Instrument make Blower TE-5005 s/n3105
Calibrator Serial No.		Pollutant TSP	
Accuracy (GPS) +/- 9 meter		Zone 15U	
Easting 0431129		Northing 5410593	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number TISCH TE-HVC-V		Manometer type: TISCH	Manometer S/N: 0196
S = slope of the calibration orifice Qamb 1.31943			
I = intercept of the calibration orifice Qamb -0.01571			
Ambient Temperature 17°C		Ambient Pressure 738 mm Hg	
Audit Results		Required flow	
Manometer reading (in. of water)		Hi-vol & PM	40 cfm
True flow calculated result: $\sqrt{MR \times S + I}$ 41		PAH	30 cfm
Percent error = $\frac{(\text{true flow value} - \text{required flow})}{\text{required flow}} \times 100$ 40		Dioxins	8 cfm
Leak Test 40		47 mm	16.7 L/M
Temperature Correction = $\text{SQRT} [298/(273 \pm T_a)]$		Ta = AMBIENT TEMP °C	
Comments/observations (also general station conditions and status of logbooks):			
Clean + Cool +18°C			
Action Required (Auditor):		Signature:	
[Signature]		[Signature]	
Action Taken (Auditee):		Signature:	
		[Signature]	

Dustfall Site Audit				
Site Name/Address: New Gold Gallinger Road				
City/Town: Chapples Municipality				
Site ID #: 62055		Operator/Representative: New Gold		
Date (yr/mm/dd): 24/01/20		Auditor: Jim Staehelin #1528		
Criteria	Requirements	Observed	Criteria Met?	
			YES	NO
Sampler height	3 m above ground		☒	☐
	270° arc of unrestricted airflow & wind from point source quadrant must be included in arc		☒	☐
Distance from Obstructions	No overhead obstructions (hydro telephone wires) to interfere with particle deposition		☒	☐
Distance from trees	Should be > 20 m from drip line of trees		☒	☐
Distance from road	No nearby unpaved roads & parking lot		☒	☐
	Avoid building wake effect		☒	☐
Rooftop installation	No nearby chimney or flues that could emit particles (soot/coal)		☒	☐
Bracket installation	Should be level & jar must be level in bracket		☒	☐
Ground cover	Should have vegetative cover		☒	☐
Liner	4 mil liner must be used		☒	☐
Comments/observations and overall audit opinion:				
1.6°C C/Km				
Action Required (Auditor):		Signature:		
No Action Required				
Action Taken (Auditee):		Signature:		
				



NEW GOLD INC.
RAINY RIVER MINE

AMBIENT AIR QUALITY MONITORING PROGRAM
THIRD QUARTER 2024 REPORT

NOVEMBER 2024

ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	Microgram per Cubic Metre
AAQC	Ambient Air Quality Criteria
AAQO	Alberta Ambient Air Quality Objectives
ACFM	Cubic Feet Per Minute at Actual Conditions
AEP	Alberta Environment and Parks
ASTM	American Society for Testing and Materials
BCMOE	British Columbia Ministry of the Environment
CAAQS	Canadian Ambient Air Quality Standards
CFM	Cubic Foot Per Minute
Hi-Vol	High Volume Sampler
ICP/AES	Inductively Coupled Plasma / Atomic Emission Spectroscopy
ICP/MS	Inductively Coupled Plasma / Mass Spectrometry
LPM	Litres Per Minute
MECP	Ministry of the Environment, Conservation and Parks
NIST	National Institute of Standards and Technology
NO_2	Nitrogen Dioxide
$\text{PM}_{2.5}$	Particulate Matter less than 2.5 microns (μm) in diameter
POI	Point of Impingement
SO_2	Sulphur Dioxide
TSP	Total Suspended Particulate
U.S. EPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator

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Section 1. INTRODUCTION

The following is a summary of the Third Quarter 2024 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
 - Number of Valid Samples and Percent Valid Data
 - Arithmetic and Geometric Means
 - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM_{2.5});
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO₂) and sulphur dioxide (SO₂).

Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

Table 2-1. Ambient Air Monitoring Stations

Station	UTM Co-ordinates			Parameters Monitored
	Easting (m)	Northing (m)	Zone	
Tait Road (Southwest Station)	426 072	5 406 996	15	TSP, Metals, PM _{2.5} , Dustfall, NO ₂ , SO ₂
Gallinger Road (Northeast Station)	431 133	5 410 534	15	TSP, Metals, PM _{2.5} , Dustfall, NO ₂ , SO ₂
Northwest Station (TMA)	419 797	5 413 042	15	TSP, Metals, PM _{2.5} , Dustfall

2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.

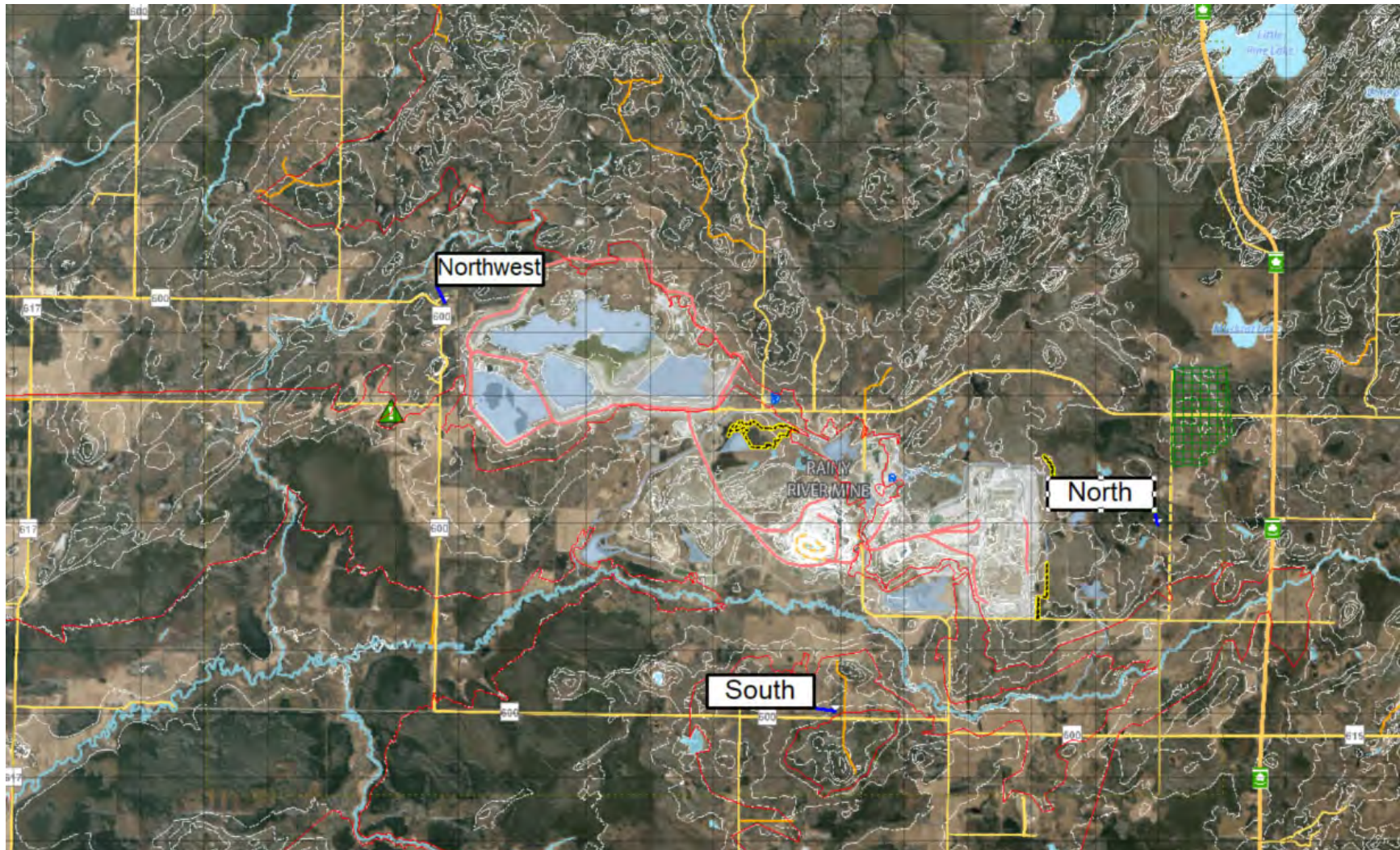


Figure 2-1. Ambient Air Monitoring Station Locations



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



Figure 2-4. Tait Road Station Detailed View



Figure 2-5. Northwest Station Siting

Section 3. ANALYTICAL METHODS

3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6th) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms (μg). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres (m^3). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

3.2 RESPIRABLE PARTICULATE MATTER ($\text{PM}_{2.5}$)

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$ concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring $\text{PM}_{2.5}$ in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of $\text{PM}_{2.5}$ on the (μg). Based on a valid 24-hour sample volume Teflon filter is 15 micrograms ranging between 21.6 and 26.4 m^3 , the MDL for $\text{PM}_{2.5}$ ranges between 0.9 and 16.7 $\mu\text{g}/\text{m}^3$.

Total sample volume is recorded mechanically by the PQ200 Samplers.

RAINY RIVER MINE

3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimeter (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ($\text{g/m}^2/30 \text{ days}$).

3.4 PASSIVE SAMPLING FOR SO_2 AND NO_2

Sulphur dioxide (SO_2) and nitrogen dioxide (NO_2) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of NO_2 or SO_2 , sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both SO_2 and NO_2 , the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of SO_2 or NO_2 obtained from passive sampling, this data is used solely for screening purposes.

RAINY RIVER MINE

For NO₂, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m³) converted to an equivalent 30-day (720-hour) average (78 µg/m³) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO₂, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m³ (Alberta Environment and Parks, 2019).

Section 4. MONITORING METHODS

4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM_{2.5}. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m³ in a 24-hour period.

For PQ200 samplers are calibrated annually, or if the verification indicates they are running outside of the intended flow rate by 4% or more. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m³ in a 24-hour period.

Table 4-1 below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly.

Table 4-1. Sampler Calibration Dates

Station	Hi-Vol Sampler Calibration Date	PQ200 Sampler Calibration Date
Tait Road (South Station)	2024-07-18	N/A
Gallinger Road (North Station)	2024-07-18	N/A
Northwest Station (TMA)	2024-07-18	2024-09-30

4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algaecide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.



Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

Section 5. SAMPLING ISSUES

5.1 PERFORMANCE AND SITE AUDITS

No MECP audits were conducted in Q3.

5.2 EQUIPMENT AND SAMPLING ISSUES

There were four (4) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

Table 5-2. Q3 Invalidated Samples

Sample Date	Station	Contaminant	Reasoning
July 5, 2024	North	TSP	Sample volume was below the lower volume limit
September 21, 2024	South	TSP	Sample volume was below the lower volume limit
September 9, 2024	Northwest	PM _{2.5}	Technical issue with sampling – did not run for the programmed amount of time
September 15, 2024	Northwest	PM _{2.5}	Technical issue with sampling – did not run for the programmed amount of time

Section 6. SAMPLING RESULTS

Sampling results for Q3 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM_{2.5}, **Section 6.3** and **Appendix A-2** for total dust fall, and **Section 6.4** and **Appendix A-3** for passive SO₂ and NO₂.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q3 are provided in **Appendix C**.

For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q3 presented fifteen (15) possible sampling days between July 5, 2024, and September 27, 2024, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM_{2.5} are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO₂ and NO₂ are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

6.1 TSP AND METALS

In this quarter, the Tait Road and Gallinger Road Stations collected fourteen (14) valid samples (93% valid data), while Northwest station collected fourteen (15) valid samples (100% valid data).

For this quarter, the arithmetic mean of TSP concentration was 28.43 µg/m³ at the Tait Road Station, 19.88 µg/m³ at the Gallinger Road Station, and 21.59 µg/m³ at the Northwest Station. Geometric means for the three stations were 25.61 µg/m³, 18.70 µg/m³, and 19.71 µg/m³, respectively.

The maximum 24-hour concentration for TSP was 79.37 µg/m³ at the Tait Road Station on July 11th, 34.46 µg/m³ at the Gallinger Road Station on August 28th, and 48.38 µg/m³ at the Northwest Station on August 28th, 2024.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there were no exceedances observed.

Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

Table 6-1. TSP Summary Statistics. Concentrations presented in µg/m³.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	14	14	15
% Valid Data	93%	93%	100%
Arithmetic Mean	28.43	19.88	21.59
Geometric Mean	25.61	18.70	19.71
24-Hour Maximum	79.37	34.46	48.38
24-Hour Minimum	13.62	10.46	8.58
July Maximum	79.37	26.91	27.44
August Maximum	23.52	34.46	48.38
September Maximum	37.62	26.03	25.12
90 th Percentile	35.96	26.56	27.53
95 th Percentile	50.15	29.17	33.83
TSP AAQC	120	120	120
Samples > TSP AAQC	0	0	0

	Tait Road Station	Gallinger Road Station	Northwest Station
Samples > Metal AAQC	0	0	0

Table 6-2. Maximum Concentrations of Metals. Concentrations presented in $\mu\text{g}/\text{m}^3$.

Metal	24-Hour AAQC	Tait Road Station		Gallinger Road Station		Northwest Station	
		Maximum Concentration	Fraction of AAQC	Maximum Concentration	Fraction of AAQC	Maximum Concentration	Fraction of AAQC
As	0.3	1.03E-03	0.34%	1.03E-03	0.34%	9.93E-04	0.33%
Cd	0.025	6.61E-04	2.65%	6.87E-04	2.75%	6.62E-04	2.65%
Cr	0.5	3.70E-03	0.74%	1.72E-03	0.34%	5.76E-03	1.15%
Co	0.1	1.59E-03	1.59%	7.58E-04	0.76%	7.35E-04	0.73%
Cu	50	1.38E-01	0.28%	1.77E-01	0.35%	3.09E-01	0.62%
Fe	4	2.53E+00	63.33%	4.84E-01	12.10%	1.70E+00	42.58%
Pb	0.5	2.84E-03	0.57%	2.97E-03	0.59%	1.86E-03	0.37%
Mn	0.4	5.39E-02	13.48%	2.64E-02	6.61%	4.65E-02	11.62%
Ni	0.2	2.98E-03	1.49%	2.44E-03	1.22%	3.08E-03	1.54%
Se	10	3.31E-03	0.03%	3.43E-03	0.03%	3.31E-03	0.03%
V	2	4.37E-03	0.22%	1.72E-03	0.09%	3.29E-03	0.16%
Zn	120	4.52E-02	0.04%	2.40E-02	0.02%	3.51E-02	0.03%

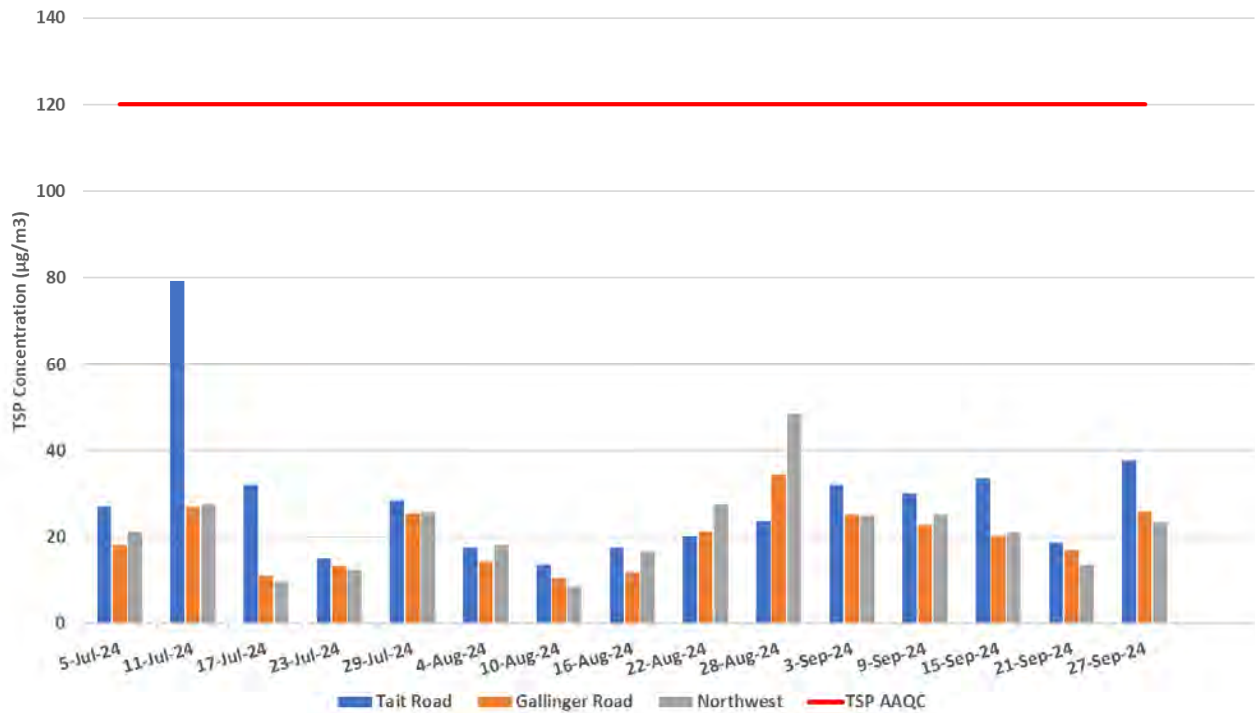


Figure 6-1. TSP Sampling Results

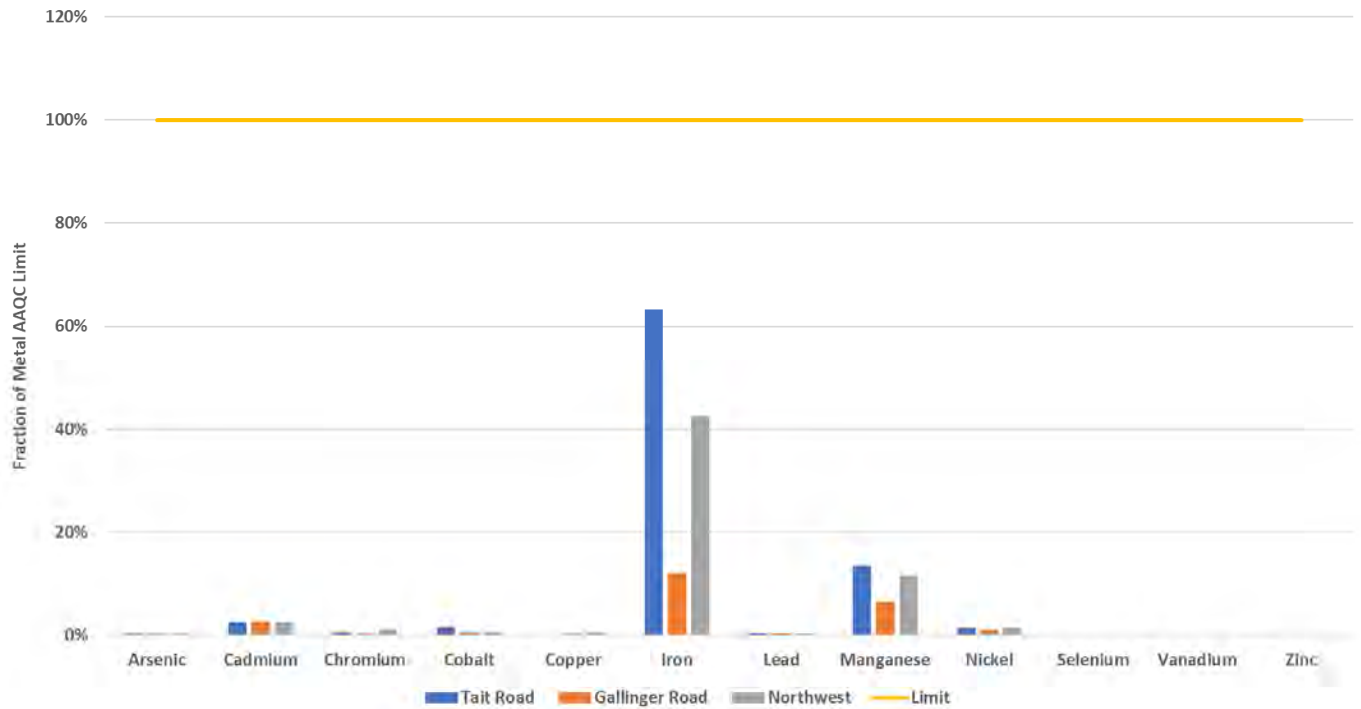


Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC

6.2 PM_{2.5}

In this quarter, Tait Road Station and Gallinger Road Station collected fifteen (15) valid samples, which represents 100% valid data. Northwest Station collected thirteen (13) valid samples which represent 87% valid data.

For this quarter, the arithmetic mean for the PM_{2.5} concentrations were 5.21 µg/m³, 5.21 µg/m³, and 6.95 µg/m³ for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM_{2.5} were 14.44 µg/m³ at the Tait Road Station on July 11th, 13.19 µg/m³ at the Gallinger Road Station on July 11^h, and 22.58 µg/m³ at the Northwest Station on September 9th, 2024.

Laboratory data is provided as the mass of PM_{2.5} on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM_{2.5} in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was no exceedance for PM_{2.5}.

Data is summarized for PM_{2.5} in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

Table 6-3. PM_{2.5} Summary Statistics. Concentrations presented in µg/m³.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	15	15	13
% Valid Data	100%	100%	87%
Arithmetic Mean	5.21	5.21	6.95
Geometric Mean	3.74	3.82	5.12
24-Hour Maximum	14.44	13.19	22.58
24-Hour Minimum	0.31	0.31	1.46
April Maximum	14.44	13.19	14.22
May Maximum	8.66	8.07	9.73
June Maximum	5.24	7.70	22.58
90 th Percentile	11.33	10.40	13.72
95 th Percentile	13.51	12.32	16.73
PM _{2.5} AAQC	27	27	27
Samples > PM _{2.5} AAQC	0	0	0
MDL (µg)	15	15	15
Samples < MDL	1	1	0

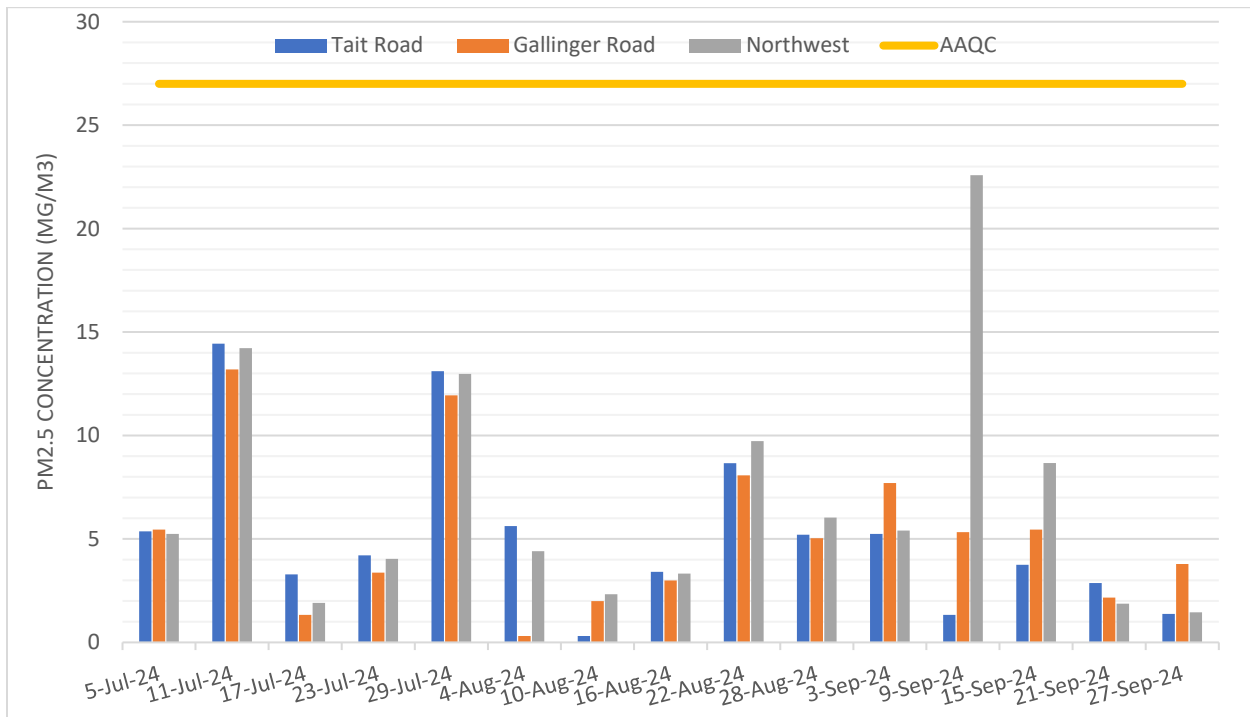


Figure 6-3. PM_{2.5} Sampling Results

6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration} \left(\frac{g}{m^2 \cdot 30 \text{ days}} \right) = \text{Lab Concentration} \left(\frac{mg}{dm^2 \cdot \text{day}} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there were two (2) exceedances for the total dustfall 30-day Ontario AAQC (7 g/m²/30 days) – in July for both Tait Road and Gallinger Road.

Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

Table 6-4. Total Dustfall Summary Statistics.
Concentrations presented in g/m²/30 days.

	Tait Road Station	Gallinger Road Station	Northwest Station
Number of Valid Samples	3	3	3
% Valid Data	100%	100%	100%
Arithmetic Mean	5.10	5.85	2.66
Monthly Maximum	9.87	13.92	5.7
Dustfall AAQC	7	7	7
Samples > Dustfall AAQC	1	1	0
Samples < MDL	0	0	0

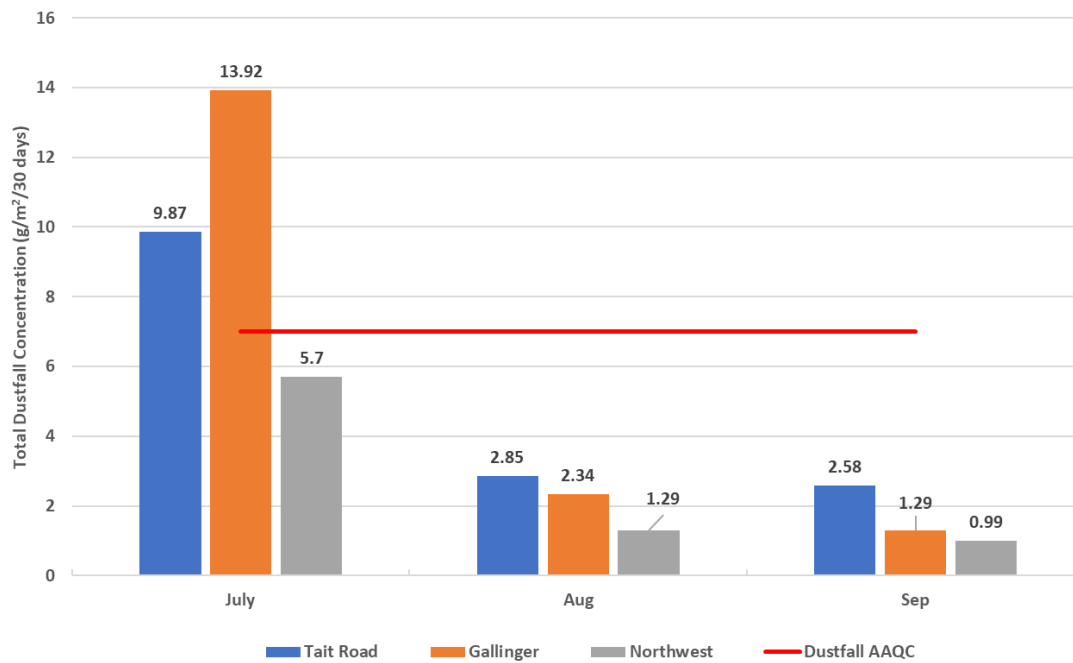


Figure 6-3. Total Dustfall Sampling Results at POI Stations

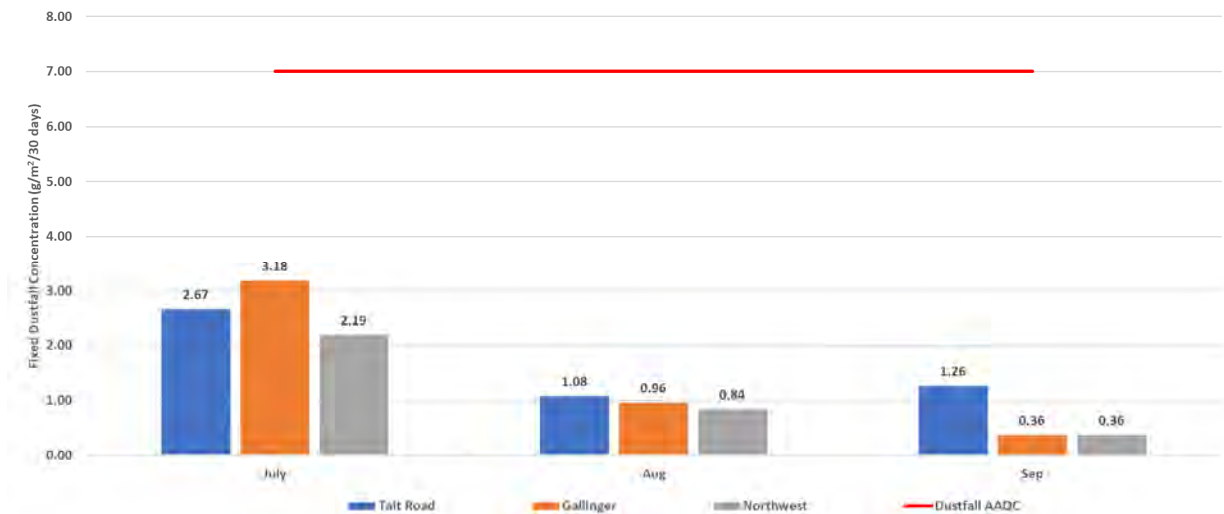


Figure 6-4. Fixed Dustfall Sampling Results at POI Stations

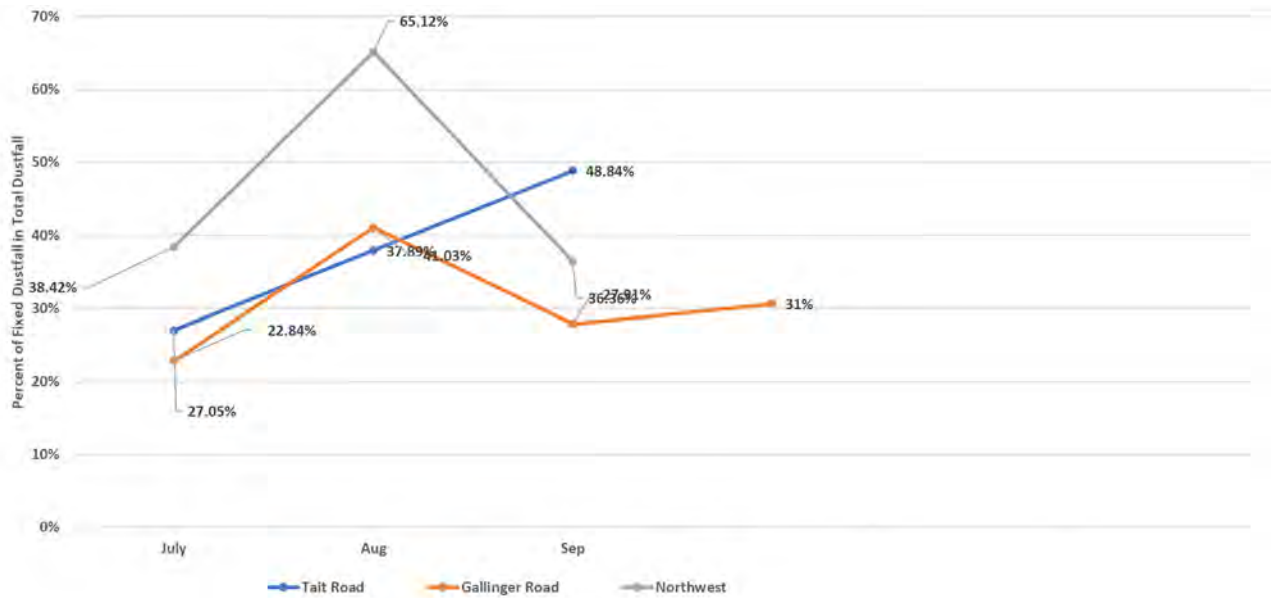


Figure 6-5. Percent of Fixed Dustfall in Total Dustfall

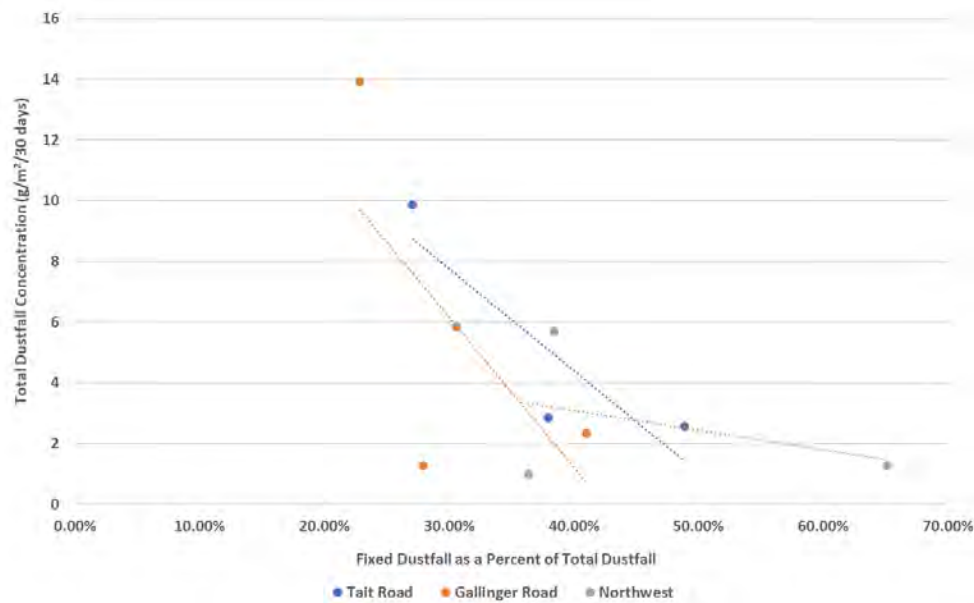


Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration

6.4 PASSIVE SO₂ AND NO₂

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO₂ or NO₂ for a 30-day averaging period. Instead, the 30-day measured average SO₂ or NO₂ concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO₂, the monthly results are compared against Ontario's 24-hour NO₂ AAQC (200 µg/m³) converted to an equivalent 30-day average (78 µg/m³) using the methodology outlined in Table 7-1 of the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (2019).

For SO₂, the monthly results are compared against Alberta's 30-day SO₂ Ambient Air Quality Objective (AAQO) of 30 µg/m³ (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO₂ concentration was 0.22 µg/m³ at the Tait Road and 0.17 µg/m³ at the Gallinger Road Stations. The arithmetic mean NO₂ concentrations were 0.88 µg/m³ and 0.50 µg/m³ at the Tait Road and Gallinger Road Stations, respectively.

The maximum monthly concentrations of SO₂ were 0.26 µg/m³ for the Tait Road and 0.26 µg/m³ for the Gallinger Road stations in the months of July and August. The maximum monthly concentration of NO₂ was 1.32 µg/m³ at the Tait Road in the month of August and 0.56 µg/m³ at the Gallinger Road Stations in the months of August and September.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \text{Lab Concentration (ppbv)} \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

In this quarter, there were no samples that exceeded the converted 24-hour NO₂ Ontario AAQC (78 µg/m³), and no samples that exceeded the 30-day Alberta SO₂ AAQO (30 µg/m³).

Data is summarized for SO₂ and NO₂ in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

Table 6-5: Summary Statistics for SO₂ and NO₂.
Concentrations presented in µg/m³.

	Tait Road Station		Gallinger Road Station	
	SO ₂	NO ₂	SO ₂	NO ₂
Number of Valid Samples	3	3	3	3
% Valid Data	100%	100%	100%	100%
Arithmetic Mean	0.22	0.88	0.17	0.50
Monthly Maximum	0.26	1.32	0.26	0.56
Limit	30	78	30	78

	Tait Road Station		Gallinger Road Station	
	SO ₂	NO ₂	SO ₂	NO ₂
Samples > Limit	0	0	0	0
MDL	0.1	0.1	0.1	0.1
Samples < MDL	1	0	2	0

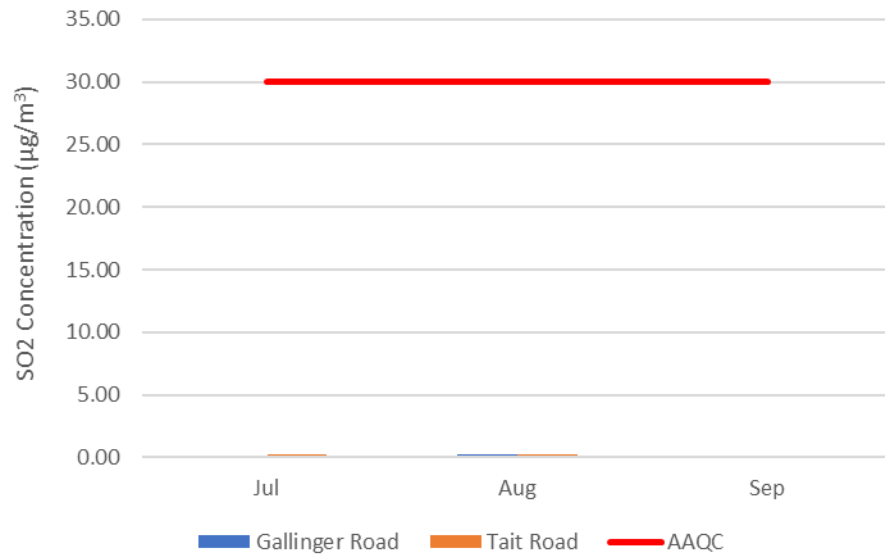


Figure 6-5. SO₂ Monitoring Results

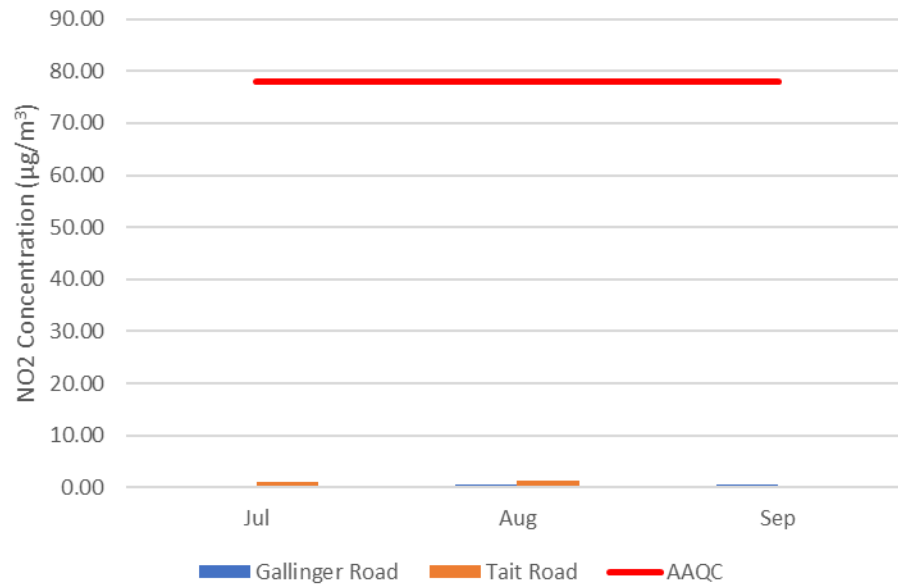


Figure 6-8. NO₂ Monitoring Results

Section 7. MITIGATION MEASURES

No mitigation measures have been implemented at this time.

Section 8. CONCLUSION

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the second quarter of 2024 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECP Program Approval Letter.

Samples were taken every sixth (6th) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM_{2.5}). Samples were taken monthly for total dustfall, sulphur dioxide (SO₂), and nitrogen dioxide (NO₂).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

In this quarter, there were no exceedances for TSP, Metals, PM_{2.5}. However, there were two (2) exceedances for the total dustfall 30-day Ontario AAQC (7 g/m²/30 days) – in July for both Tait Road and Gallinger Road.

Section 9. REFERENCES

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Section 10. CLOSING

The *Rainy River Mine Ambient Air Quality Monitoring Program Third Quarter 2024 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:



Garnet Cornell

Environment Manager

APPENDIX A: SAMPLING RESULTS

- Appendix A-1 TSP, Metals, and PM_{2.5} Sampling Results
- Appendix A-2 Total Dustfall Sampling Results
- Appendix A-3 SO₂ and NO₂ Passive Sampling Results

APPENDIX A-1:

TSP, METALS, AND PM_{2.5} SAMPLING RESULTS

Tait Road Station Monitoring Results (concentrations expressed in µg/m ³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
5-Jul-24	27.20	<u>9.58E-04</u>	<u>6.38E-04</u>	<u>1.60E-03</u>	<u>6.38E-04</u>	1.01E-01	7.41E-01	<u>9.58E-04</u>	1.63E-02	<u>9.58E-04</u>	<u>3.19E-03</u>	<u>1.60E-03</u>	1.09E-02	5.37
11-Jul-24	79.37	<u>9.92E-04</u>	<u>6.61E-04</u>	3.70E-03	1.59E-03	7.54E-02	2.53E+00	<u>9.92E-04</u>	5.39E-02	2.98E-03	<u>3.31E-03</u>	4.37E-03	1.65E-02	14.44
17-Jul-24	32.10	<u>9.24E-04</u>	<u>6.16E-04</u>	3.14E-03	<u>6.16E-04</u>	7.70E-02	8.99E-01	2.59E-03	2.77E-02	<u>9.24E-04</u>	<u>3.08E-03</u>	<u>1.54E-03</u>	1.37E-02	3.29
23-Jul-24	15.01	<u>9.34E-04</u>	<u>6.23E-04</u>	<u>1.56E-03</u>	<u>6.23E-04</u>	6.91E-02	2.05E-01	<u>9.34E-04</u>	5.98E-03	<u>9.34E-04</u>	<u>3.11E-03</u>	<u>1.56E-03</u>	6.48E-03	4.20
29-Jul-24	28.42	<u>9.71E-04</u>	<u>6.47E-04</u>	<u>1.62E-03</u>	<u>6.47E-04</u>	5.94E-02	1.50E-01	<u>9.71E-04</u>	5.96E-03	<u>9.71E-04</u>	<u>3.24E-03</u>	<u>1.62E-03</u>	1.08E-02	13.11
4-Aug-24	17.60	<u>9.49E-04</u>	<u>8.54E-06</u>	<u>1.08E-03</u>	5.38E-05	5.55E-02	1.08E-01	4.11E-04	4.01E-03	5.76E-04	<u>4.11E-04</u>	<u>1.58E-03</u>	5.25E-03	5.62
10-Aug-24	13.62	<u>9.37E-04</u>	<u>8.44E-06</u>	<u>1.06E-03</u>	9.81E-05	7.44E-02	1.67E-01	4.75E-04	5.12E-03	5.81E-04	<u>4.06E-04</u>	<u>1.56E-03</u>	5.87E-03	0.31
16-Aug-24	17.49	<u>9.83E-04</u>	3.21E-05	<u>1.11E-03</u>	9.96E-05	7.21E-02	2.38E-01	1.57E-03	9.17E-03	8.25E-04	<u>4.26E-04</u>	<u>1.64E-03</u>	1.26E-02	3.41
22-Aug-24	20.22	<u>9.48E-04</u>	1.14E-04	<u>1.07E-03</u>	1.27E-04	7.71E-02	2.33E-01	1.48E-03	8.47E-03	6.25E-04	<u>4.11E-04</u>	<u>1.58E-03</u>	1.33E-02	8.66
28-Aug-24	23.52	<u>9.69E-04</u>	9.50E-05	<u>1.10E-03</u>	2.36E-04	7.43E-02	4.26E-01	7.17E-04	9.88E-03	8.08E-04	<u>4.20E-04</u>	<u>1.62E-03</u>	8.08E-03	5.20
3-Sep-24	31.99	<u>9.65E-04</u>	1.09E-04	<u>1.09E-03</u>	3.54E-04	8.37E-02	5.55E-01	1.11E-03	2.10E-02	1.76E-03	<u>4.18E-04</u>	<u>1.61E-03</u>	9.14E-03	5.24
9-Sep-24	30.04	<u>9.57E-04</u>	7.91E-05	<u>1.08E-03</u>	3.90E-04	8.67E-02	5.94E-01	9.25E-04	2.91E-02	1.32E-03	<u>4.15E-04</u>	<u>1.59E-03</u>	8.61E-03	1.33
15-Sep-24	33.48	<u>9.96E-04</u>	1.18E-04	<u>1.13E-03</u>	3.79E-04	1.15E-01	6.20E-01	1.58E-03	1.89E-02	1.16E-03	<u>4.32E-04</u>	<u>1.66E-03</u>	1.22E-02	3.75
21-Sep-24														2.87
27-Sep-24	37.62	<u>1.00E-03</u>	1.06E-04	3.08E-03	4.43E-04	1.38E-01	9.57E-01	2.84E-03	3.09E-02	1.73E-03	<u>4.35E-04</u>	<u>1.67E-03</u>	4.52E-02	1.37

No. Valid Samples	14	14	14	14	14	14	14	14	14	14	14	14	14	15
% Valid Data	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	100%
Arithmetic Mean	29.12	9.63E-04	2.75E-04	1.67E-03	4.50E-04	8.28E-02	6.02E-01	1.25E-03	1.76E-02	1.15E-03	1.41E-03	1.80E-03	1.28E-02	5.21
Geometric Mean	26.19	9.63E-04	1.27E-04	1.50E-03	3.14E-04	8.04E-02	4.14E-01	1.09E-03	1.32E-02	1.03E-03	8.65E-04	1.72E-03	1.08E-02	3.74
Max Sample	79.37	1.00E-03	6.61E-04	3.70E-03	1.59E-03	1.38E-01	2.53E+00	2.84E-03	5.39E-02	2.98E-03	3.31E-03	4.37E-03	4.52E-02	14.44
Min Sample	13.62	9.24E-04	8.44E-06	1.06E-03	5.38E-05	5.55E-02	1.08E-01	4.11E-04	4.01E-03	5.76E-04	4.06E-04	1.54E-03	5.25E-03	0.31
July Max	79.37	9.92E-04	6.61E-04	3.70E-03	1.59E-03	1.01E-01	2.53E+00	2.59E-03	5.39E-02	2.98E-03	3.31E-03	4.37E-03	1.65E-02	14.44
August Max	23.52	9.83E-04	1.14E-04	1.11E-03	2.36E-04	7.71E-02	4.26E-01	1.57E-03	9.88E-03	8.25E-04	4.26E-04	1.64E-03	1.33E-02	8.66
September Max	37.62	1.03E-03	1.65E-04	3.08E-03	4.43E-04	1.38E-01	9.57E-01	2.84E-03	3.09E-02	1.76E-03	4.45E-04	1.71E-03	4.52E-02	5.24
90 th Percentile	35.96	1.00E-03	6.44E-04	3.12E-03	6.44E-04	1.09E-01	9.34E-01	2.18E-03	3.01E-02	1.75E-03	3.22E-03	1.70E-03	1.54E-02	11.33
95 th Percentile	50.15	1.01E-03	6.52E-04	3.31E-03	9.29E-04	1.22E-01	1.43E+00	2.66E-03	3.78E-02	2.12E-03	3.26E-03	2.51E-03	2.51E-02	13.51
Comparison Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	14	7	11	4	0	0	4	0	4	0	1	0	0

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.
N/A: Not applicable

Gallinger Road Station Monitoring Results (concentrations expressed in µg/m³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
5-Jul-24														5.45
11-Jul-24	26.91	<u>9.26E-04</u>	<u>6.17E-04</u>	<u>1.54E-03</u>	<u>6.17E-04</u>	1.15E-01	2.35E-01	<u>9.26E-04</u>	9.01E-03	<u>9.26E-04</u>	<u>3.09E-03</u>	<u>1.54E-03</u>	1.33E-02	13.19
17-Jul-24	11.04	<u>9.05E-04</u>	<u>6.03E-04</u>	<u>1.51E-03</u>	<u>6.03E-04</u>	1.32E-01	1.15E-01	<u>9.05E-04</u>	4.46E-03	<u>9.05E-04</u>	<u>3.02E-03</u>	<u>1.51E-03</u>	1.01E-02	1.33
23-Jul-24	13.18	<u>9.07E-04</u>	<u>6.05E-04</u>	<u>1.51E-03</u>	<u>6.05E-04</u>	9.74E-02	5.75E-02	<u>9.07E-04</u>	3.57E-03	<u>9.07E-04</u>	<u>3.02E-03</u>	<u>1.51E-03</u>	5.68E-03	3.37
29-Jul-24	25.35	<u>9.41E-04</u>	<u>6.27E-04</u>	<u>1.57E-03</u>	<u>6.27E-04</u>	1.07E-01	1.20E-01	<u>9.41E-04</u>	4.96E-03	<u>9.41E-04</u>	<u>3.14E-03</u>	<u>1.57E-03</u>	1.71E-02	11.94
4-Aug-24	14.30	<u>9.24E-04</u>	1.66E-05	<u>1.05E-03</u>	2.96E-05	9.37E-02	6.59E-02	4.13E-04	2.75E-03	4.38E-04	<u>4.01E-04</u>	<u>1.54E-03</u>	5.30E-03	0.31
10-Aug-24	10.46	<u>9.02E-04</u>	<u>8.12E-06</u>	<u>1.02E-03</u>	7.22E-05	8.60E-02	1.24E-01	6.37E-04	4.51E-03	4.69E-04	<u>3.91E-04</u>	<u>1.50E-03</u>	7.34E-03	2.00
16-Aug-24	11.85	<u>9.45E-04</u>	1.89E-05	<u>1.07E-03</u>	2.52E-05	9.45E-02	5.42E-02	4.92E-04	2.10E-03	3.78E-04	<u>4.10E-04</u>	<u>1.58E-03</u>	6.30E-03	3.00
22-Aug-24	21.34	<u>9.39E-04</u>	4.38E-05	<u>1.06E-03</u>	7.95E-05	9.70E-02	1.80E-01	1.08E-03	6.45E-03	7.13E-04	<u>4.07E-04</u>	<u>1.56E-03</u>	1.05E-02	8.07
28-Aug-24	34.46	<u>9.47E-04</u>	2.21E-05	<u>1.07E-03</u>	2.06E-04	8.02E-02	4.84E-01	4.23E-04	1.49E-02	9.09E-04	<u>4.10E-04</u>	<u>1.58E-03</u>	1.05E-02	5.04
3-Sep-24	25.08	<u>9.47E-04</u>	6.70E-05	<u>1.07E-03</u>	1.65E-04	7.39E-02	2.43E-01	9.85E-04	1.27E-02	6.57E-04	<u>4.11E-04</u>	<u>1.58E-03</u>	1.17E-02	7.70
9-Sep-24	22.86	<u>9.37E-04</u>	5.62E-05	<u>1.06E-03</u>	2.21E-04	1.02E-01	4.71E-01	7.43E-04	2.64E-02	1.29E-03	<u>4.06E-04</u>	<u>1.56E-03</u>	7.18E-03	5.33
15-Sep-24	20.24	<u>9.17E-04</u>	7.16E-05	<u>1.04E-03</u>	1.80E-04	1.00E-01	3.13E-01	1.36E-03	1.25E-02	8.26E-04	<u>3.98E-04</u>	<u>1.53E-03</u>	1.05E-02	5.45
21-Sep-24	17.00	<u>9.41E-04</u>	4.58E-05	<u>1.07E-03</u>	1.03E-04	1.77E-01	1.74E-01	6.27E-04	8.28E-03	9.41E-04	<u>4.08E-04</u>	<u>1.57E-03</u>	8.28E-03	2.16
27-Sep-24	26.03	<u>9.64E-04</u>	6.81E-05	<u>1.09E-03</u>	7.58E-04	1.21E-01	3.59E-01	2.97E-03	2.02E-02	2.44E-03	<u>4.18E-04</u>	<u>1.61E-03</u>	2.40E-02	3.79

No. Valid Samples	14	14	14	14	14	14	14	14	14	14	14	14	14	15
% Valid Data	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	100%
Arithmetic Mean	20.01	9.32E-04	2.05E-04	1.20E-03	3.07E-04	1.05E-01	2.14E-01	9.58E-04	9.49E-03	9.09E-04	1.17E-03	1.55E-03	1.06E-02	5.21
Geometric Mean	18.75	9.31E-04	7.77E-05	1.18E-03	1.87E-04	1.03E-01	1.69E-01	8.34E-04	7.31E-03	8.16E-04	7.23E-04	1.55E-03	9.67E-03	3.82
Max Sample	34.46	9.64E-04	6.27E-04	1.57E-03	7.58E-04	1.77E-01	4.84E-01	2.97E-03	2.64E-02	2.44E-03	3.14E-03	1.61E-03	2.40E-02	13.19
Min Sample	10.46	9.02E-04	8.12E-06	1.02E-03	2.52E-05	7.39E-02	5.42E-02	4.13E-04	2.10E-03	3.78E-04	3.91E-04	1.50E-03	5.30E-03	0.31
July Max	26.91	1.03E-03	6.87E-04	1.72E-03	6.87E-04	1.33E-01	2.75E-01	1.03E-03	9.01E-03	1.03E-03	3.43E-03	1.72E-03	1.71E-02	13.19
August Max	34.46	9.47E-04	4.38E-05	1.07E-03	2.06E-04	9.70E-02	4.84E-01	1.08E-03	1.49E-02	9.09E-04	4.10E-04	1.58E-03	1.05E-02	8.07
September Max	26.03	9.64E-04	7.16E-05	1.09E-03	7.58E-04	1.77E-01	4.71E-01	2.97E-03	2.64E-02	2.44E-03	4.18E-04	1.61E-03	2.40E-02	7.70
90 th Percentile	26.56	9.57E-04	6.23E-04	1.56E-03	6.63E-04	1.33E-01	4.26E-01	1.25E-03	1.81E-02	1.18E-03	3.12E-03	1.60E-03	1.56E-02	10.40
95 th Percentile	29.17	9.84E-04	6.45E-04	1.61E-03	7.08E-04	1.46E-01	4.75E-01	1.85E-03	2.21E-02	1.63E-03	3.23E-03	1.64E-03	1.92E-02	12.32
Comparison Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	0	5	14	4	0	0	4	0	4	0	14	0	0

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.
N/A: Not applicable

Northwest Station Monitoring Results (concentrations expressed in µg/m³)														
Date	TSP	As	Cd	Cr	Co	Cu	Fe	Pb	Mn	Ni	Se	V	Zn	PM _{2.5}
5-Jul-24	21.25	<u>9.93E-04</u>	<u>6.62E-04</u>	<u>1.65E-03</u>	<u>6.62E-04</u>	1.73E-01	3.85E-01	<u>9.93E-04</u>	1.15E-02	<u>9.93E-04</u>	<u>3.31E-03</u>	<u>1.65E-03</u>	9.73E-03	5.24
11-Jul-24	27.44	<u>9.44E-04</u>	<u>6.29E-04</u>	<u>1.57E-03</u>	<u>6.29E-04</u>	1.81E-01	2.69E-01	<u>9.44E-04</u>	1.03E-02	<u>9.44E-04</u>	<u>3.15E-03</u>	<u>1.57E-03</u>	1.36E-02	14.22
17-Jul-24	9.79	<u>9.18E-04</u>	<u>6.12E-04</u>	<u>1.53E-03</u>	<u>6.12E-04</u>	1.89E-01	4.16E-02	<u>9.18E-04</u>	2.02E-03	<u>9.18E-04</u>	<u>3.06E-03</u>	<u>1.53E-03</u>	4.47E-03	1.91
23-Jul-24	12.52	<u>9.44E-04</u>	<u>6.29E-04</u>	<u>1.57E-03</u>	<u>6.29E-04</u>	1.00E-01	7.17E-02	<u>9.44E-04</u>	4.03E-03	<u>9.44E-04</u>	<u>3.15E-03</u>	<u>1.57E-03</u>	6.23E-03	4.03
29-Jul-24	25.65	<u>9.82E-04</u>	<u>6.54E-04</u>	<u>1.64E-03</u>	<u>6.54E-04</u>	1.43E-01	1.00E-01	<u>9.82E-04</u>	4.38E-03	<u>9.82E-04</u>	<u>3.27E-03</u>	<u>1.64E-03</u>	9.42E-03	12.97
4-Aug-24	18.04	<u>9.30E-04</u>	1.80E-05	<u>1.05E-03</u>	8.68E-05	1.91E-01	2.00E-01	1.84E-03	7.38E-03	6.20E-04	<u>4.03E-04</u>	<u>1.55E-03</u>	7.87E-03	4.41
10-Aug-24	8.58	<u>9.00E-04</u>	<u>8.10E-06</u>	<u>1.02E-03</u>	2.16E-05	9.84E-02	4.32E-02	4.44E-04	1.50E-03	2.88E-04	<u>3.90E-04</u>	<u>1.50E-03</u>	3.72E-03	2.33
16-Aug-24	16.58	<u>9.45E-04</u>	1.95E-05	<u>1.07E-03</u>	1.42E-04	1.46E-01	2.94E-01	6.05E-04	8.00E-03	8.70E-04	<u>4.10E-04</u>	<u>1.58E-03</u>	7.12E-03	3.33
22-Aug-24	27.59	<u>9.62E-04</u>	7.06E-05	2.82E-03	2.71E-04	1.69E-01	5.97E-01	1.55E-03	1.79E-02	1.37E-03	<u>4.17E-04</u>	<u>1.60E-03</u>	1.53E-02	9.73
28-Aug-24	48.38	<u>9.50E-04</u>	5.70E-05	5.76E-03	7.35E-04	7.28E-02	1.70E+00	1.86E-03	4.65E-02	3.08E-03	<u>4.12E-04</u>	3.29E-03	2.06E-02	6.03
3-Sep-24	24.88	<u>9.70E-04</u>	4.65E-05	<u>1.10E-03</u>	1.56E-04	1.16E-01	3.16E-01	9.31E-04	1.56E-02	1.22E-03	<u>4.20E-04</u>	<u>1.62E-03</u>	8.92E-03	5.41
9-Sep-24	25.12	<u>9.56E-04</u>	4.02E-05	<u>1.08E-03</u>	2.00E-04	1.54E-01	4.42E-01	8.73E-04	2.66E-02	8.22E-04	<u>4.14E-04</u>	<u>1.59E-03</u>	7.52E-03	22.58
15-Sep-24	21.15	<u>9.44E-04</u>	7.87E-05	<u>1.07E-03</u>	2.23E-04	2.50E-01	3.24E-01	1.30E-03	1.33E-02	1.84E-03	<u>4.09E-04</u>	<u>1.57E-03</u>	9.94E-03	
21-Sep-24	13.63	<u>9.83E-04</u>	4.13E-05	<u>1.11E-03</u>	1.12E-04	2.16E-01	2.04E-01	6.62E-04	7.99E-03	1.00E-03	<u>4.26E-04</u>	<u>1.64E-03</u>	9.30E-03	
27-Sep-24	23.32	<u>9.48E-04</u>	7.33E-05	<u>1.07E-03</u>	1.91E-04	3.09E-01	4.30E-01	1.83E-03	1.63E-02	9.86E-04	<u>4.11E-04</u>	<u>1.58E-03</u>	3.51E-02	1.46

No. Valid Samples	15	15	15	15	15	15	15	15	15	15	15	15	15	13
% Valid Data	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	87%
Arithmetic Mean	21.59	9.51E-04	2.43E-04	1.68E-03	3.55E-04	1.67E-01	3.61E-01	1.11E-03	1.29E-02	1.13E-03	1.34E-03	1.70E-03	1.13E-02	6.95
Geometric Mean	19.71	9.51E-04	9.59E-05	1.46E-03	2.48E-04	1.57E-01	2.33E-01	1.03E-03	9.05E-03	9.97E-04	8.13E-04	1.66E-03	9.54E-03	5.12
Max Sample	48.38	9.93E-04	6.62E-04	5.76E-03	7.35E-04	3.09E-01	1.70E+00	1.86E-03	4.65E-02	3.08E-03	3.31E-03	3.29E-03	3.51E-02	22.58
Min Sample	8.58	9.00E-04	8.10E-06	1.02E-03	2.16E-05	7.28E-02	4.16E-02	4.44E-04	1.50E-03	2.88E-04	3.90E-04	1.50E-03	3.72E-03	1.46
July Max	27.44	9.93E-04	6.62E-04	1.65E-03	6.62E-04	1.89E-01	3.85E-01	9.93E-04	1.15E-02	9.93E-04	3.31E-03	1.65E-03	1.36E-02	14.22
August Max	48.38	9.62E-04	7.06E-05	5.76E-03	7.35E-04	1.91E-01	1.70E+00	1.86E-03	4.65E-02	3.08E-03	4.17E-04	3.29E-03	2.06E-02	9.73
September Max	25.12	9.83E-04	7.87E-05	1.11E-03	2.23E-04	3.09E-01	4.42E-01	1.83E-03	2.66E-02	1.84E-03	4.26E-04	1.64E-03	3.51E-02	22.58
90 th Percentile	27.53	9.82E-04	6.44E-04	2.36E-03	6.59E-04	2.36E-01	5.35E-01	1.84E-03	2.31E-02	1.65E-03	3.22E-03	1.65E-03	1.85E-02	13.72
95 th Percentile	33.83	9.86E-04	6.57E-04	3.70E-03	6.84E-04	2.68E-01	9.29E-01	1.85E-03	3.26E-02	2.21E-03	3.28E-03	2.15E-03	2.49E-02	16.73
Comparison Limit	120	0.3	0.025	0.5	0.1	50	4	0.5	0.4	0.2	10	2	120	27
No. > Limit	0	0	0	0	0	0	1	0	0	0	0	0	0	0
MDL (µg)	2,300	3	2	5	2	4	20	3	1	3	10	5	5	15
No. < MDL	0	15	6	13	10	15	15	5	15	5	15	14	15	0

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.
N/A: Not applicable

APPENDIX A-2:

TOTAL DUSTFALL SAMPLING RESULTS

Tait Road Station Monitoring Results (concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
July	31	7.74	2.13	9.87	2.67	7.2
August	31	2.28	0.57	2.85	1.08	1.77
September	30	2.16	0.42	2.58	1.26	1.32
No. Valid Samples				3	3	3
% Valid Data				100%	100%	100%
Arithmetic Mean				5.10	1.67	3.43
Max Monthly Concentration				9.87	2.67	7.2
Min Monthly Concentration				2.58	1.08	1.32
Comparison Limit				7	-	-
No. > Limit				1	-	-
MDL				0.3	0.3	0.3
No. < MDL				0	0	1

Gallinger Road Station Monitoring Results (concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
July	31	9.48	4.44	13.92	3.18	10.71
August	31	1.92	0.42	2.34	0.96	1.38
September	30	1.29	0.18	1.29	0.36	0.78
No. Valid Samples				3	3	3
% Valid Data				100%	100%	100%
Arithmetic Mean				5.85	1.5	4.29
Max Monthly Concentration				13.92	3.18	10.71
Min Monthly Concentration				1.29	0.36	0.78
Comparison Limit				7	-	-
No. > Limit				1	-	-
MDL				0.3	0.3	0.3
No. < MDL				0	0	0

Northwest Station Monitoring Results (concentrations expressed in g/m ² /30 days)						
Month	No. Exposure Days	Insoluble Dustfall	Soluble Dustfall	Total Dustfall	Fixed Dustfall	Volatile Dustfall
July	31	5.7	0.165	5.7	2.19	3.51
August	31	0.96	0.33	1.29	0.84	0.45
September	30	0.54	0.45	0.99	0.36	0.99
No. Valid Samples				3	3	3
% Valid Data				100%	100%	100%
Arithmetic Mean				2.66	1.13	1.65
Max Monthly Concentration				5.7	2.19	3.51
Min Monthly Concentration				0.99	0.36	0.45
Comparison Limit				7	-	-
No. > Limit				0	-	-
MDL				0.3	0.3	0.3
No. < MDL				0	1	1

APPENDIX A-3:

SO₂ AND NO₂ PASSIVE SAMPLING RESULTS

Tait Road Station Monitoring Results (concentrations expressed in $\mu\text{g}/\text{m}^3$)		
Month	SO₂	NO₂
July	0.26	0.94
August	0.26	1.32
September	<u>0.13</u>	0.38
No. Valid Samples	3	3
% Valid data	100%	100%
Arithmetic Mean	0.22	0.88
Max Monthly Concentration	0.26	1.32
Min Monthly Concentration	0.13	0.38
Comparison Limit	30	78
No. > Limit	0	0
MDL	0.26	0.19
No. < MDL	1	0

Gallinger Road Station Monitoring Results (concentrations expressed in $\mu\text{g}/\text{m}^3$)		
Month	SO₂	NO₂
October	<u>0.13</u>	0.38
November	0.26	0.56
December	<u>0.13</u>	0.56
No. Valid Samples	3	3
% Valid data	100%	100%
Arithmetic Mean	0.17	0.50
Max Monthly Concentration	0.26	0.56
Min Monthly Concentration	0.13	0.38
Comparison Limit	30	78
No. > Limit	0	0
MDL	0.26	0.19
No. < MDL	2	0

APPENDIX B:

NOTICE OF EXCEEDANCES FOR Q3 2024

APPENDIX C: LABORATORY RESULTS

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : BU2400179

Client : New Gold Inc. (Rainy River)
Contact : Robyn Lloyd
Address : 24 Marr Rd
Barwick, ON Canada P0W 1A0
E-mail : robyn.lloyd@newgold.com
Telephone : 807 234 8200
Facsimile : ----
Project : BU Air Quality
Purchase order number : 4700003553

C-O-C number : ----
Site :
Sampler : Client

Laboratory : ALS Environmental - Burlington
Contact : Claire Kocharakkal
Address : 1435 Norjohn Court, Unit 1
Burlington, Ontario Canada L7L 0E6
E-mail : claire.kocharakkal@alsglobal.com
Telephone : +1 905 331 3111
Facsimile : +1 905 331 4567
Page : 1 of 5
Quote number : BU2023NGRR1000001 (Air Quality Standing Offer (BU Use only))
QC Level : ALS Canada Standard Quality Control

Dates

Date Samples Received : 06-Aug-2024 17:15
Client Requested Due Date : 28-Aug-2024

Issue Date : 08-Aug-2024
Scheduled Reporting Date : 28-Aug-2024

Delivery Details

Mode of Delivery : Carrier
No. of coolers/boxes : 1
Receipt Detail :

Security Seal : Not Available
Temperature : 20.2
No. of samples received / analyzed : 4 / 4

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances (if any)
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Where possible, ALS will store samples for the following durations, measured from date of sample submission: 30 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.
- Temperature is recorded in °C unless otherwise noted.

Issue Date : 08-Aug-2024
Page : 3 of 5
Work Order : BU2400179 Amendment 0
Client : New Gold Inc. (Rainy River)



Requested Deliverables

Claire Kocharakkal

ALS Excel Report (ALS_MTABXL_CAN)	Email	claire.kocharakkal@alsglobal.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	claire.kocharakkal@alsglobal.com
Interpretive Quality Control Report (QCI (CAN))	Email	claire.kocharakkal@alsglobal.com
Quality Control (QC (CAN))	Email	claire.kocharakkal@alsglobal.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	claire.kocharakkal@alsglobal.com
Tax Invoice (INVOICE (CAN))	Email	claire.kocharakkal@alsglobal.com

Garnet Cornell

ALS Excel Report (ALS_MTABXL_CAN)	Email	Garnet.Cornell@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	Garnet.Cornell@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	Garnet.Cornell@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	Garnet.Cornell@newgold.com
Quality Control (QC (CAN))	Email	Garnet.Cornell@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	Garnet.Cornell@newgold.com

Garnet Cornell (Accounts Payable)

Tax Invoice (INVOICE (CAN))	Email	rainyriver.accounts@newgold.com

Lab Results

ALS Excel Report (ALS_MTABXL_CAN)	Email	rainyriver.labresults@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	rainyriver.labresults@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	rainyriver.labresults@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	rainyriver.labresults@newgold.com
Quality Control (QC (CAN))	Email	rainyriver.labresults@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	rainyriver.labresults@newgold.com

Robyn Lloyd

ALS Excel Report (ALS_MTABXL_CAN)	Email	robyn.lloyd@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	robyn.lloyd@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	robyn.lloyd@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUIS_CAN)	Email	robyn.lloyd@newgold.com
Quality Control (QC (CAN))	Email	robyn.lloyd@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	robyn.lloyd@newgold.com

Suzy Sabanathan



Issue Date : 08-Aug-2024
Page : 4 of 5
Work Order : BU2400179 Amendment 0
Client : New Gold Inc. (Rainy River)

ALS Excel Report (ALS_MTABXL_CAN)	Email	ssabanathan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	ssabanathan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	ssabanathan@trinityconsultants.com
Quality Control (QC (CAN))	Email	ssabanathan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	ssabanathan@trinityconsultants.com

Varshini Padmanabhan

ALS Excel Report (ALS_MTABXL_CAN)	Email	varshini.padmanabhan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Quality Control (QC (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	varshini.padmanabhan@trinityconsultants.com



Methods with Laboratory

Sale item

Method	Laboratory	Address	City	Province	Country
Soluble and Insoluble (Total, Fixed, Volatile) Dustfalls (mg/dm2.day)					
E881	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E882	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E884	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E885	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC880T.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC881.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC882.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC883F.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC883V2.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC884.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC884V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC885.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC885V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Total Metals & Mercury in Dustfall (mg/dm2.day)					
E447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada

Telephone : +1 905 331 3111

CERTIFICATE OF ANALYSIS

Work Order	: BU2400179	Page	: 1 of 5
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Aug-2024 17:15
PO	: 4700003553	Date Analysis Commenced	: 08-Aug-2024
C-O-C number	: ----	Issue Date	: 28-Aug-2024 10:43
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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

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
Aaron Burton	Login	Administration, Burlington, Ontario
Alex Thornton	Analyst	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Robin Weeks	Team Leader - Metals	Metals, Burnaby, British Columbia
Tracy Harley	Supervisor - Water Quality Instrumentation	Inorganics, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
cm ²	square centimetres
days	days
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Dustfall (Matrix: Air)				Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest est	Dustfall-July Trip Blank	----
Client sampling date / time					30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400179-001	BU2400179-002	BU2400179-003	BU2400179-004	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	30	30	30	30	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	0.35	0.55	0.56	<0.11	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	2.80	2.03	1.34	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	3.16	2.58	1.90	<0.11	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	0.71	0.34	0.16	<0.11	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	0.77	0.37	<0.10	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	1.48	0.71	<0.11	<0.11	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	1.06	0.89	0.73	<0.23	----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm².day	3.57	2.40	1.17	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	4.64	3.29	1.90	<0.23	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	5.9	9.2	9.4	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	52.5	42.9	31.6	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	11.8	5.6	2.7	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	24.6	11.8	<1.9	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.00307	0.00644	0.00890	<0.000180	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	0.0000092	<0.0000039	0.0000103	<0.0000030	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	0.0000070	0.0000052	0.0000100	<0.0000030	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.000136	0.000109	0.000147	<0.0000030	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000018	<0.000019	<0.000017	<0.000015	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000018	<0.000019	<0.000017	<0.000015	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00037	<0.00039	<0.00035	<0.00030	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	0.0000047	0.0000022	0.0000016	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0377	0.0354	0.0456	<0.00060	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	<0.000018	0.000023	<0.000017	<0.000015	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	0.0000040	0.0000065	0.0000072	<0.0000030	----
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	0.000268	0.000176	0.000087	<0.000030	----



Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

					Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-July Trip Blank	----
Client sampling date / time					30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400179-001	BU2400179-002	BU2400179-003	BU2400179-004	-----
					Result	Result	Result	Result	----
Total Metals									
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.00433	0.00975	0.00890	<0.00090	----
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.0000114	0.0000301	0.0000116	<0.0000015	----
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00018	<0.00019	<0.00017	<0.00015	----
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.0339	0.0171	0.0149	<0.00015	----
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.000914	0.000764	0.000824	<0.0000060	----
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000018	<0.0000019	<0.0000017	<0.0000015	----
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	0.0000282	0.0000078	0.0000049	<0.0000015	----
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	0.000137	0.000060	<0.000017	<0.000015	----
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	0.158	0.0951	0.0329	<0.0015	----
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.202	0.108	0.0548	<0.0015	----
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000037	<0.000039	<0.000035	<0.000030	----
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	0.0101	0.0111	0.0254	<0.0015	----
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	0.00000180	<0.00000039	<0.00000035	<0.00000030	----
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0060	0.0108	0.0037	<0.0015	----
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.0000987	0.0000794	0.000118	<0.0000030	----
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000037	<0.0000039	<0.0000035	<0.0000030	----
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000037	<0.0000039	<0.0000035	<0.0000030	----
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	<0.00037	<0.00039	<0.00035	<0.00030	----
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026	----
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	<0.000037	<0.000039	<0.000035	<0.000030	----
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.00158	0.00126	0.000397	<0.000090	----
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.0510	0.107	0.148	<0.0030	----
Antimony, total	7440-36-0	E447/VA	0.000050	mg	0.000153	<0.000065	0.000172	<0.000050	----
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	0.000116	0.000086	0.000167	<0.000050	----
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.00226	0.00181	0.00244	<0.000050	----
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00030	<0.00032	<0.00029	<0.00025	----
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00030	<0.00032	<0.00029	<0.00025	----
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0061	<0.0065	<0.0058	<0.0050	----
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	0.000078	0.000036	0.000026	<0.000020	----
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.626	0.588	0.758	<0.010	----
Chromium, total	7440-47-3	E447/VA	0.00025	mg	<0.00030	0.00038	<0.00029	<0.00025	----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-July Trip Blank	----
(Matrix: Air)										
Client sampling date / time					30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	30-Jul-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400179-001	BU2400179-002	BU2400179-003	BU2400179-004	-----	
					Result	Result	Result	Result	----	
Total Metals										
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	0.000066	0.000108	0.000120	<0.000050	----	
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00445	0.00292	0.00144	<0.00050	----	
Iron, total	7439-89-6	E447/VA	0.015	mg	0.072	0.162	0.148	<0.015	----	
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000189	0.000500	0.000193	<0.000025	----	
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0030	<0.0032	<0.0029	<0.0025	----	
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.563	0.284	0.248	<0.0025	----	
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.0152	0.0127	0.0137	<0.00010	----	
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000030	<0.000032	<0.000029	<0.000025	----	
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000468	0.000129	0.000082	<0.000025	----	
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00228	0.00100	<0.00029	<0.00025	----	
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	2.62	1.58	0.547	<0.025	----	
Potassium, total	7440-09-7	E447/VA	0.025	mg	3.35	1.80	0.911	<0.025	----	
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00061	<0.00065	<0.00058	<0.00050	----	
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.168	0.184	0.422	<0.025	----	
Silver, total	7440-22-4	E447/VA	0.0000050	mg	0.0000300	<0.0000065	<0.0000058	<0.0000050	----	
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.100	0.179	0.061	<0.025	----	
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.00164	0.00132	0.00196	<0.000050	----	
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000061	<0.000065	<0.000058	<0.000050	----	
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000061	<0.000065	<0.000058	<0.000050	----	
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0061	<0.0065	<0.0058	<0.0050	----	
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000061	<0.0000065	0.0000135	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00061	<0.00065	<0.00058	<0.00050	----	
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0262	0.0210	0.0066	<0.0015	----	

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400179	Page	: 1 of 10
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Aug-2024 17:15
PO	: 4700003553	Issue Date	: 28-Aug-2024 10:43
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	EF001A	30-Jul-2024	----	----	----		23-Aug-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-North	EF001A	30-Jul-2024	----	----	----		23-Aug-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001A	30-Jul-2024	----	----	----		23-Aug-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-South	EF001A	30-Jul-2024	----	----	----		23-Aug-2024	----	25 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	EF001B	30-Jul-2024	----	----	----		08-Aug-2024	----	9 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-North	EF001B	30-Jul-2024	----	----	----		08-Aug-2024	----	9 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001B	30-Jul-2024	----	----	----		08-Aug-2024	----	9 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-South	EF001B	30-Jul-2024	----	----	----		08-Aug-2024	----	9 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	E885	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E885	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E885	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E885	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	E884	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E884	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E884	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E884	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	

Page : 5 of 10
 Work Order : BU2400179
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	E882	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E882	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E882	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E882	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	E881	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E881	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E881	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E881	30-Jul-2024	21-Aug-2024	----	----		21-Aug-2024	----	23 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	E516	30-Jul-2024	15-Aug-2024	180 days	17 days	✓	18-Aug-2024	180 days	3 days	✓



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E516	30-Jul-2024	15-Aug-2024	180 days	17 days	✓	18-Aug-2024	180 days	3 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E516	30-Jul-2024	15-Aug-2024	180 days	17 days	✓	18-Aug-2024	180 days	3 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E516	30-Jul-2024	15-Aug-2024	180 days	17 days	✓	18-Aug-2024	180 days	3 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-July Trip Blank	E447	30-Jul-2024	16-Aug-2024	180 days	18 days	✓	20-Aug-2024	180 days	22 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E447	30-Jul-2024	16-Aug-2024	180 days	18 days	✓	20-Aug-2024	180 days	22 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E447	30-Jul-2024	16-Aug-2024	180 days	18 days	✓	20-Aug-2024	180 days	22 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E447	30-Jul-2024	16-Aug-2024	180 days	18 days	✓	20-Aug-2024	180 days	22 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1595684	1	4	25.0	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1595683	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1608787	1	12	8.3	5.0	✔
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1608788	1	12	8.3	5.0	✔
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1608790	1	20	5.0	5.0	✔
Total Mercury by CVAAS (Dustfall, mg)	E516	1595684	1	4	25.0	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1595683	1	12	8.3	5.0	✔
Total Soluble Dustfalls by Gravimetry (mg)	E881	1608789	1	20	5.0	5.0	✔
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1608787	1	12	8.3	5.0	✔
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1608788	1	12	8.3	5.0	✔
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1608790	1	20	5.0	5.0	✔
Total Mercury by CVAAS (Dustfall, mg)	E516	1595684	1	4	25.0	5.0	✔
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1595683	1	12	8.3	5.0	✔
Total Soluble Dustfalls by Gravimetry (mg)	E881	1608789	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Total Mercury by CVAAS (Dustfall, mg)	E516	1595684	1	4	25.0	5.0	✔



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm ² .day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm ² .day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustall and Fixed Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm ² .day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustall and Volatile Insoluble Dustall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm ² .day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm ² .day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm ² .day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm ²)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm ²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

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 Work Order : BU2400179
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion.adapted from US EPA 200.2.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400179	Page	: 1 of 8
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 06-Aug-2024 17:15
PO	: 4700003553	Date Analysis Commenced	: 08-Aug-2024
C-O-C number	: ----	Issue Date	: 28-Aug-2024 10:43
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 4		
No. of samples analysed	: 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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Alex Thornton	Analyst	Vancouver Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Robin Weeks	Team Leader - Metals	Vancouver Metals, Burnaby, British Columbia
Tracy Harley	Supervisor - Water Quality Instrumentation	Vancouver Inorganics, Burnaby, British Columbia

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Work Order : BU2400179
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1595683)											
BU2400179-001	Dustfall-North	Aluminum, total	7429-90-5	E447	0.0037	mg	0.0510	0.0506	0.719%	40%	----
		Antimony, total	7440-36-0	E447	0.000061	mg	0.000153	0.000159	0.000006	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000061	mg	0.000116	0.000107	0.000008	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000061	mg	0.00226	0.00227	0.844%	40%	----
		Beryllium, total	7440-41-7	E447	0.00030	mg	<0.00030	<0.00030	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00030	mg	<0.00030	<0.00030	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0061	mg	<0.0061	<0.0061	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000024	mg	0.000078	0.000073	0.000005	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.012	mg	0.626	0.644	2.91%	30%	----
		Chromium, total	7440-47-3	E447	0.00030	mg	<0.00030	<0.00030	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000061	mg	0.000066	0.000067	0.000001	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00061	mg	0.00445	0.00444	0.389%	30%	----
		Iron, total	7439-89-6	E447	0.018	mg	0.072	0.074	0.002	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000030	mg	0.000189	0.000188	0.224%	40%	----
		Lithium, total	7439-93-2	E447	0.0030	mg	<0.0030	<0.0030	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0030	mg	0.563	0.574	1.87%	30%	----
		Manganese, total	7439-96-5	E447	0.00012	mg	0.0152	0.0156	2.06%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000030	mg	0.000468	0.000475	1.65%	40%	----
		Nickel, total	7440-02-0	E447	0.00030	mg	0.00228	0.00233	2.17%	30%	----
		Phosphorus, total	7723-14-0	E447	0.030	mg	2.62	2.65	0.970%	30%	----
		Potassium, total	7440-09-7	E447	0.030	mg	3.35	3.36	0.377%	40%	----
		Selenium, total	7782-49-2	E447	0.00061	mg	<0.00061	<0.00061	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.030	mg	0.168	0.160	0.008	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000061	mg	0.0000300	0.0000314	4.82%	40%	----
		Sodium, total	7440-23-5	E447	0.030	mg	0.100	0.100	0.0002	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000061	mg	0.00164	0.00166	1.07%	40%	----
		Thallium, total	7440-28-0	E447	0.000061	mg	<0.000061	<0.000061	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000061	mg	<0.000061	<0.000061	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0061	mg	<0.0061	<0.0061	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000061	mg	<0.0000061	<0.0000061	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1595683) - continued											
BU2400179-001	Dustfall-North	Vanadium, total	7440-62-2	E447	0.00061	mg	<0.00061	<0.00061	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0018	mg	0.0262	0.0264	0.661%	30%	----
Total Metals (QC Lot: 1595684)											
BU2400179-001	Dustfall-North	Mercury, total	7439-97-6	E516	0.000030	mg	<0.000030	<0.000030	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1608787)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1608788)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1608789)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1608790)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Total Metals (QCLot: 1595683)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1595683) - continued						
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1595684)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1608787)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	111	85.0	115	----
Particulates (QCLot: 1608788)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	109	85.0	115	----
Particulates (QCLot: 1608789)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	102	85.0	115	----
Particulates (QCLot: 1608790)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	113	85.0	115	----
Total Metals (QCLot: 1595683)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	107	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	100	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	104	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	98.7	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	106	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	107	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	101	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	102	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	99.6	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	104	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	102	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	102	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	94.2	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	105	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	104	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	100	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	99.7	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	103	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	101	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	94.4	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	96.6	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	102	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	111	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	92.2	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike		Recovery (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1595683) - continued									
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	102	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	101	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	100	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	103	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	97.6	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	106	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	103	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	99.4	80.0	120	----
Total Metals (QCLot: 1595684)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	74.7	70.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report				
					Spike		Recovery (%)		Qualifier
					Concentration	Target	MS	Low	
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High
Total Metals (QCLot: 1595684)									
BU2400179-002	Dustfall-South	Mercury, total	7439-97-6	E516	0.000585 mg	0 mg	117	70.0	130

Telephone : +1 905 331 3111

CERTIFICATE OF ANALYSIS

Work Order	: BU2400353	Page	: 1 of 13
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Sep-2024 14:00
PO	: 4700003553	Date Analysis Commenced	: 10-Sep-2024
C-O-C number	: ----	Issue Date	: 27-Sep-2024 17:07
Sampler	: ----		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 20		

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

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
Aaron Burton	Login	Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kristen Chan	Analyst	Metals, Burlington, Ontario
Maya Urquhart	Lab Analyst	Metals, Burnaby, British Columbia
Milithza Silva	Manager - Inorganics	Metals, Burlington, Ontario
Monica Ko	Lab Assistant	Inorganics, Burnaby, British Columbia
Wingyee Cheng	Analyst- General	Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
µg/sample	micrograms per sample
cm ²	square centimetres
days	days
L	litres
mg	milligrams
mg/dm ² .day	milligrams per square decimetre per day

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Ni observed in the MB at a level significantly above its LOR. Sample data may be biased high as a result of this background contribution.



Analytical Results

Sub-Matrix: Dustfall				Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
(Matrix: Air)									
Client sampling date / time					01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	-----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	32	32	32	32	----
Particulates									
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².day	0.19	0.21	0.28	<0.11	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².day	0.45	0.54	<0.10	<0.10	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².day	0.64	0.76	0.32	<0.11	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².day	0.12	0.15	<0.11	<0.11	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².day	<0.10	<0.10	0.11	<0.10	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².day	0.14	0.19	0.11	<0.11	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².day	0.32	0.36	0.28	<0.21	----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm².day	0.46	0.59	0.15	<0.10	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².day	0.78	0.95	0.43	<0.21	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	3.4	3.8	4.9	<1.9	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	11.4	13.4	5.6	<1.9	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	2.2	2.6	<1.9	<1.9	----
Dustfall, total soluble	----	E881/VA	1.9	mg	2.4	3.4	2.0	<1.9	----
Total Metals									
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².day	0.00301	0.00473	0.00532	0.000310	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².day	<0.0000028	<0.0000028	<0.0000028	<0.0000028	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².day	<0.0000028	0.0000035	0.0000032	0.0000041	----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm².day	0.0000487	0.0000626	0.0000632	<0.0000028	----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm².day	<0.000014	<0.000014	<0.000014	<0.000014	----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².day	<0.000014	<0.000014	<0.000014	<0.000014	----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².day	<0.00028	<0.00028	<0.00028	<0.00028	----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².day	<0.0000013	0.0000014	<0.0000013	<0.0000013	----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².day	0.0181	0.0227	0.0212	0.00068	----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².day	<0.000014	0.000015	0.000019	<0.000014	----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².day	<0.0000028	0.0000041	<0.0000028	0.0000060	----



Analytical Results

Sub-Matrix: Dustfall					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northw est	Dustfall-Trip Blank	----
(Matrix: Air)					Client sampling date / time	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	-----	
					Result	Result	Result	Result	----	
Total Metals										
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².day	0.000050	0.000073	<0.000028	<0.000028	----	
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².day	0.00384	0.00660	0.00666	<0.00084	----	
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².day	0.0000144	0.0000152	0.0000077	<0.0000014	----	
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².day	<0.00014	<0.00014	<0.00014	<0.00014	----	
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².day	0.00551	0.00767	0.00575	<0.00014	----	
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².day	0.000248	0.000487	0.000350	<0.0000056	----	
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².day	<0.0000014	<0.0000014	<0.0000014	<0.0000014	----	
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².day	0.0000024	0.0000035	0.0000015	<0.0000014	----	
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².day	<0.000014	0.000021	0.000030	<0.000014	----	
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².day	0.0157	0.0113	<0.0014	<0.0014	----	
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².day	0.0383	0.0193	0.0047	<0.0014	----	
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².day	<0.000028	<0.000028	<0.000028	<0.000028	----	
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².day	0.0052	0.0077	0.0089	<0.0014	----	
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².day	<0.00000028	<0.00000028	<0.00000028	<0.00000028	----	
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².day	0.0030	0.0048	0.0018	<0.0014	----	
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm².day	0.0000506	0.0000570	0.0000482	<0.0000028	----	
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm².day	<0.0000028	<0.0000028	<0.0000028	<0.0000028	----	
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm².day	<0.0000028	<0.0000028	<0.0000028	<0.0000028	----	
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².day	<0.00028	<0.00028	<0.00028	<0.00028	----	
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm².day	<0.0000026	<0.0000026	<0.0000026	<0.0000026	----	
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².day	<0.000028	<0.000028	<0.000028	<0.000028	----	
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².day	0.000220	0.000355	0.000102	<0.000084	----	
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.0534	0.0838	0.0943	0.0055	----	
Antimony, total	7440-36-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	<0.000050	0.000062	0.000057	0.000073	----	
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.000864	0.00111	0.00112	<0.000050	----	
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	<0.000020	0.000024	<0.000020	<0.000020	----	



Analytical Results

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time					01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	-----	
					Result	Result	Result	Result	----	
Total Metals										
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.321	0.403	0.376	0.012	----	
Chromium, total	7440-47-3	E447/VA	0.00025	mg	<0.00025	0.00027	0.00033	<0.00025	----	
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	<0.000050	0.000072	<0.000050	0.000106	----	
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00089	0.00129	<0.00050	<0.00050	----	
Iron, total	7439-89-6	E447/VA	0.015	mg	0.068	0.117	0.118	<0.015	----	
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000256	0.000269	0.000136	<0.000025	----	
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025	----	
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.0977	0.136	0.102	<0.0025	----	
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.00440	0.00863	0.00621	<0.00010	----	
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000025	<0.000025	<0.000025	<0.000025	----	
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000043	0.000062	0.000026	<0.000025	----	
Nickel, total	7440-02-0	E447/VA	0.00025	mg	<0.00025	0.00037	0.00054	<0.00025	----	
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	0.279	0.201	<0.025	<0.025	----	
Potassium, total	7440-09-7	E447/VA	0.025	mg	0.679	0.343	0.084	<0.025	----	
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.093	0.136	0.158	<0.025	----	
Silver, total	7440-22-4	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.054	0.086	0.032	<0.025	----	
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.000897	0.00101	0.000854	<0.000050	----	
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0039	0.0063	0.0018	<0.0015	----	

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.



Analytical Results

Sub-Matrix: Filter					Client sample ID				
(Matrix: Air)					North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559
Client sampling date / time					04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-001	BU2400353-002	BU2400353-003	BU2400353-004	BU2400353-005
Sample Preparation					Result	Result	Result	Result	Result
Volume, final	----	EP456/BU	0.001	L	0.05	0.05	0.05	0.05	0.05
Metals									
Aluminum	7429-90-5	E456/BU	9.0	µg/sample	159	194	96.0	228	521
Antimony	7440-36-0	E456/BU	0.25	µg/sample	<0.25	0.34	0.28	0.51	<0.25
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	7440-39-3	E456/BU	0.50	µg/sample	3.07	2.11	2.54	3.86	5.70
Beryllium	7440-41-7	E456/BU	0.050	µg/sample	<0.050	<0.050	<0.050	<0.050	<0.050
Bismuth	7440-69-9	E456/BU	1.8	µg/sample	<1.8	<1.8	<1.8	<1.8	<1.8
Boron	7440-42-8	E456/BU	15	µg/sample	<15	<15	<15	<15	<15
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	0.027	<0.027	0.030	0.070	0.035
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	<3.4	<3.4	<3.4	<3.4
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	0.048	0.120	0.040	0.127	0.327
Copper	7440-50-8	E456/BU	1.0	µg/sample	152	143	150	155	127
Iron	7439-89-6	E456/BU	12	µg/sample	107	207	86	287	767
Lead	7439-92-1	E456/BU	0.12	µg/sample	0.67	1.06	0.78	1.73	0.67
Lithium	7439-93-2	E456/BU	1.0	µg/sample	<1.0	<1.0	<1.0	<1.0	1.0
Magnesium	7439-95-4	E456/BU	60	µg/sample	117	171	94	251	409
Manganese	7439-96-5	E456/BU	0.45	µg/sample	4.46	7.50	3.33	10.3	23.6
Molybdenum	7439-98-7	E456/BU	0.36	µg/sample	4.73	3.45	3.94	4.16	2.92
Nickel	7440-02-0	E456/BU	0.25	µg/sample	0.71	0.78	0.60	1.14	1.44
Phosphorus	7723-14-0	E456/BU	750	µg/sample	<750	<750	<750	<750	<750
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	<1.3	<1.3	<1.3	<1.3
Silver	7440-22-4	E456/BU	0.090	µg/sample	0.106	0.138	0.091	0.096	0.090
Sodium	7440-23-5	E456/BU	520	µg/sample	2560	1540	1540	1750	1330
Strontium	7440-24-6	E456/BU	3.0	µg/sample	7.8	8.2	6.0	7.7	10.6
Thallium	7440-28-0	E456/BU	0.090	µg/sample	<0.090	<0.090	<0.090	<0.090	<0.090
Tin	7440-31-5	E456/BU	0.60	µg/sample	0.74	<0.60	0.67	0.95	0.87
Titanium	7440-32-6	E456/BU	11	µg/sample	<11	<11	<11	<11	15
Uranium	7440-61-1	E456/BU	0.0060	µg/sample	<0.0060	0.0072	<0.0060	0.0144	0.0243
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: Filter					Client sample ID	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559
(Matrix: Air)										
Client sampling date / time						04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-001	BU2400353-002	BU2400353-003	BU2400353-004	BU2400353-005	
					Result	Result	Result	Result	Result	
Metals										
Zinc	7440-66-6	E456/BU	4.5	µg/sample	8.6	12.2	10.0	16.8	16.7	
Zirconium	7440-67-7	E456/BU	2.0	µg/sample	<2.0	<2.0	<2.0	<2.0	<2.0	

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.



Analytical Results

Sub-Matrix: Filter					Client sample ID				
(Matrix: Air)					North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559
Client sampling date / time					04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-006	BU2400353-007	BU2400353-008	BU2400353-009	BU2400353-010
Sample Preparation					Result	Result	Result	Result	Result
Volume, final	----	EP456/BU	0.001	L	0.05	0.05	0.05	0.05	0.05
Metals									
Aluminum	7429-90-5	E456/BU	9.0	µg/sample	143	214	266	260	444
Antimony	7440-36-0	E456/BU	0.25	µg/sample	<0.25	0.30	0.34	0.71	<0.25
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	7440-39-3	E456/BU	0.50	µg/sample	2.45	2.13	3.56	4.72	4.89
Beryllium	7440-41-7	E456/BU	0.050	µg/sample	<0.050	<0.050	<0.050	<0.050	<0.050
Bismuth	7440-69-9	E456/BU	1.8	µg/sample	<1.8	<1.8	<1.8	<1.8	<1.8
Boron	7440-42-8	E456/BU	15	µg/sample	<15	<15	<15	<15	<15
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	<0.027	<0.027	0.049	0.180	0.147
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	<3.4	<3.4	<3.4	<3.4
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	0.085	0.157	0.152	0.201	0.366
Copper	7440-50-8	E456/BU	1.0	µg/sample	87.7	119	110	122	115
Iron	7439-89-6	E456/BU	12	µg/sample	170	267	363	368	659
Lead	7439-92-1	E456/BU	0.12	µg/sample	0.65	0.76	2.40	2.34	1.11
Lithium	7439-93-2	E456/BU	1.0	µg/sample	<1.0	<1.0	<1.0	<1.0	<1.0
Magnesium	7439-95-4	E456/BU	60	µg/sample	125	211	206	318	309
Manganese	7439-96-5	E456/BU	0.45	µg/sample	6.34	8.19	14.0	13.4	15.3
Molybdenum	7439-98-7	E456/BU	0.36	µg/sample	5.42	7.67	7.51	6.86	5.80
Nickel	7440-02-0	E456/BU	0.25	µg/sample	0.91	0.93	1.26	0.99	1.25
Phosphorus	7723-14-0	E456/BU	750	µg/sample	<750	<750	<750	<750	<750
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	<1.3	<1.3	<1.3	<1.3
Silver	7440-22-4	E456/BU	0.090	µg/sample	<0.090	0.119	0.130	0.129	0.103
Sodium	7440-23-5	E456/BU	520	µg/sample	1370	1540	1500	1810	1530
Strontium	7440-24-6	E456/BU	3.0	µg/sample	7.0	8.5	6.9	9.8	6.6
Thallium	7440-28-0	E456/BU	0.090	µg/sample	<0.090	<0.090	<0.090	<0.090	<0.090
Tin	7440-31-5	E456/BU	0.60	µg/sample	<0.60	<0.60	0.69	0.88	<0.60
Titanium	7440-32-6	E456/BU	11	µg/sample	<11	<11	<11	<11	29
Uranium	7440-61-1	E456/BU	0.0060	µg/sample	<0.0060	0.0068	0.0072	0.0166	0.0108
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: Filter					Client sample ID	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559
(Matrix: Air)										
Client sampling date / time						04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-006	BU2400353-007	BU2400353-008	BU2400353-009	BU2400353-010	
					Result	Result	Result	Result	Result	
Metals										
Zinc	7440-66-6	E456/BU	4.5	µg/sample	8.3	9.4	19.3	21.1	12.5	
Zirconium	7440-67-7	E456/BU	2.0	µg/sample	<2.0	<2.0	<2.0	<2.0	<2.0	

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.



Analytical Results

Sub-Matrix: Filter					Client sample ID				
(Matrix: Air)					North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559
Client sampling date / time					04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-011	BU2400353-012	BU2400353-013	BU2400353-014	BU2400353-015
Sample Preparation					Result	Result	Result	Result	Result
Volume, final	----	EP456/BU	0.001	L	0.05	0.05	0.05	0.05	0.05
Metals									
Aluminum	7429-90-5	E456/BU	9.0	µg/sample	250	88.9	359	850	1880
Antimony	7440-36-0	E456/BU	0.25	µg/sample	<0.25	<0.25	<0.25	0.68	0.25
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	7440-39-3	E456/BU	0.50	µg/sample	2.56	1.68	2.84	7.88	8.69
Beryllium	7440-41-7	E456/BU	0.050	µg/sample	<0.050	<0.050	<0.050	<0.050	<0.050
Bismuth	7440-69-9	E456/BU	1.8	µg/sample	<1.8	<1.8	<1.8	<1.8	<1.8
Boron	7440-42-8	E456/BU	15	µg/sample	<15	<15	<15	<15	<15
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	0.029	<0.027	0.031	0.110	0.090
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	<3.4	<3.4	4.4	9.1
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	0.140	0.036	0.225	0.422	1.16
Copper	7440-50-8	E456/BU	1.0	µg/sample	308	164	231	264	115
Iron	7439-89-6	E456/BU	12	µg/sample	322	72	467	931	2690
Lead	7439-92-1	E456/BU	0.12	µg/sample	2.97	0.74	0.96	2.42	2.94
Lithium	7439-93-2	E456/BU	1.0	µg/sample	<1.0	<1.0	<1.0	1.0	3.0
Magnesium	7439-95-4	E456/BU	60	µg/sample	211	123	293	643	1630
Manganese	7439-96-5	E456/BU	0.45	µg/sample	11.9	2.50	12.7	27.9	73.4
Molybdenum	7439-98-7	E456/BU	0.36	µg/sample	15.2	8.73	12.7	16.3	6.68
Nickel	7440-02-0	E456/BU	0.25	µg/sample	1.00	0.48	1.38	2.14	4.86
Phosphorus	7723-14-0	E456/BU	750	µg/sample	<750	<750	<750	<750	<750
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	<1.3	<1.3	<1.3	<1.3
Silver	7440-22-4	E456/BU	0.090	µg/sample	0.193	0.092	0.138	0.181	0.140
Sodium	7440-23-5	E456/BU	520	µg/sample	1560	1460	1760	2860	1800
Strontium	7440-24-6	E456/BU	3.0	µg/sample	7.7	6.4	6.5	10.8	12.5
Thallium	7440-28-0	E456/BU	0.090	µg/sample	<0.090	<0.090	<0.090	<0.090	<0.090
Tin	7440-31-5	E456/BU	0.60	µg/sample	<0.60	<0.60	<0.60	0.94	0.83
Titanium	7440-32-6	E456/BU	11	µg/sample	<11	<11	<11	29	46
Uranium	7440-61-1	E456/BU	0.0060	µg/sample	0.0068	<0.0060	0.0081	0.0230	0.0342
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	<5.0	<5.0	<5.0	5.2



Analytical Results

Sub-Matrix: Filter					Client sample ID	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559	North-TSP-559
(Matrix: Air)										
Client sampling date / time						04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00	04-Aug-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-011	BU2400353-012	BU2400353-013	BU2400353-014	BU2400353-015	
					Result	Result	Result	Result	Result	
Metals										
Zinc	7440-66-6	E456/BU	4.5	µg/sample	12.7	6.2	11.3	23.8	32.5	
Zirconium	7440-67-7	E456/BU	2.0	µg/sample	<2.0	<2.0	<2.0	<2.0	<2.0	

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.



Analytical Results

Sub-Matrix: Filter			Client sample ID		North-TSP-559	----	----	----	----
(Matrix: Air)									
Client sampling date / time					04-Aug-2024 00:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-016	-----	-----	-----	-----
					Result	----	----	----	----
Sample Preparation									
Volume, final	----	EP456/BU	0.001	L	0.05	----	----	----	----
Metals									
Aluminum	7429-90-5	E456/BU	9.0	µg/sample	21.3	----	----	----	----
Antimony	7440-36-0	E456/BU	0.25	µg/sample	<0.25	----	----	----	----
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	----	----	----	----
Barium	7440-39-3	E456/BU	0.50	µg/sample	0.86	----	----	----	----
Beryllium	7440-41-7	E456/BU	0.050	µg/sample	<0.050	----	----	----	----
Bismuth	7440-69-9	E456/BU	1.8	µg/sample	<1.8	----	----	----	----
Boron	7440-42-8	E456/BU	15	µg/sample	<15	----	----	----	----
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	<0.027	----	----	----	----
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	----	----	----	----
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	<0.030	----	----	----	----
Copper	7440-50-8	E456/BU	1.0	µg/sample	1.2	----	----	----	----
Iron	7439-89-6	E456/BU	12	µg/sample	16	----	----	----	----
Lead	7439-92-1	E456/BU	0.12	µg/sample	<0.12	----	----	----	----
Lithium	7439-93-2	E456/BU	1.0	µg/sample	<1.0	----	----	----	----
Magnesium	7439-95-4	E456/BU	60	µg/sample	<60	----	----	----	----
Manganese	7439-96-5	E456/BU	0.45	µg/sample	<0.45	----	----	----	----
Molybdenum	7439-98-7	E456/BU	0.36	µg/sample	<0.36	----	----	----	----
Nickel	7440-02-0	E456/BU	0.25	µg/sample	0.48	----	----	----	----
Phosphorus	7723-14-0	E456/BU	750	µg/sample	<750	----	----	----	----
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	----	----	----	----
Silver	7440-22-4	E456/BU	0.090	µg/sample	<0.090	----	----	----	----
Sodium	7440-23-5	E456/BU	520	µg/sample	1420	----	----	----	----
Strontium	7440-24-6	E456/BU	3.0	µg/sample	3.4	----	----	----	----
Thallium	7440-28-0	E456/BU	0.090	µg/sample	<0.090	----	----	----	----
Tin	7440-31-5	E456/BU	0.60	µg/sample	<0.60	----	----	----	----
Titanium	7440-32-6	E456/BU	11	µg/sample	<11	----	----	----	----
Uranium	7440-61-1	E456/BU	0.0060	µg/sample	<0.0060	----	----	----	----
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	----	----	----	----



Analytical Results

Sub-Matrix: Filter					Client sample ID	North-TSP-559	----	----	----	----
(Matrix: Air)					Client sampling date / time	04-Aug-2024 00:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	BU2400353-016	-----	-----	-----	-----	
					Result	----	----	----	----	
Metals										
Zinc	7440-66-6	E456/BU	4.5	µg/sample	<4.5	----	----	----	----	
Zirconium	7440-67-7	E456/BU	2.0	µg/sample	<2.0	----	----	----	----	

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400353	Page	: 1 of 12
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Sep-2024 14:00
PO	: 4700003553	Issue Date	: 27-Sep-2024 17:07
C-O-C number	: ----		
Sampler	: ----		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 20		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- Method Blank value outliers occur - please see following pages for full details.
- Duplicate outliers occur - please see following pages for full details.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Metals	QC-1655540-001	----	Aluminum	7429-90-5	E456	49.3 µg/sampl e	9 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Barium	7440-39-3	E456	0.86 µg/sampl e	0.5 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Iron	7439-89-6	E456	15 µg/sampl e	12 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Lead	7439-92-1	E456	0.14 µg/sampl e	0.12 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Nickel	7440-02-0	E456	0.72 µg/sampl e	0.25 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Sodium	7440-23-5	E456	1390 µg/sampl e	525 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Strontium	7440-24-6	E456	6.3 µg/sampl e	3 µg/sample	Blank result exceeds permitted value
Duplicate (DUP) RPDs								
Metals	BU2400353-001	North-TSP-559	Aluminum	7429-90-5	E456	51.3 %	30%	Duplicate RPD does not meet the DQO for this test.
Metals	BU2400353-001	North-TSP-559	Molybdenum	7439-98-7	E456	30.4 %	30%	Duplicate RPD does not meet the DQO for this test.
Metals	BU2400353-001	North-TSP-559	Sodium	7440-23-5	E456	1050 %	Diff <2x LOR	Low Level DUP DQO exceeded (difference > 2 LOR).
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-1655540-002	----	Aluminum	7429-90-5	E456	142 %	70.0-130%	Recovery greater than upper control limit
Metals	QC-1655540-002	----	Strontium	7440-24-6	E456	136 %	70.0-130%	Recovery greater than upper control limit
Matrix Spike (MS) Recoveries								
Metals	BU2400353-001	North-TSP-559	Zirconium	7440-67-7	E456	74.3 %	75.0-125%	Recovery less than lower data quality objective

Page : 4 of 12
Work Order : BU2400353
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality





Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-North	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-South	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-North	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-South	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559, North-TSP-559	E456	04-Aug-2024	17-Sep-2024	180 days	45 days	✓	18-Sep-2024	180 days	45 days	✓
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E447	01-Sep-2024	24-Sep-2024	180 days	24 days	✓	25-Sep-2024	180 days	25 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E447	01-Sep-2024	25-Sep-2024	180 days	25 days	✓	26-Sep-2024	180 days	26 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E447	01-Sep-2024	25-Sep-2024	180 days	25 days	✓	26-Sep-2024	180 days	26 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E447	01-Sep-2024	25-Sep-2024	180 days	25 days	✓	26-Sep-2024	180 days	26 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1667893	2	10	20.0	5.0	✓
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1669302	1	16	6.2	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1669303	1	10	10.0	5.0	✓
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1669305	1	16	6.2	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1667893	2	10	20.0	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1669304	1	10	10.0	5.0	✓
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1669302	1	16	6.2	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1669303	1	10	10.0	5.0	✓
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1669305	1	16	6.2	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1667893	2	10	20.0	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1669304	1	10	10.0	5.0	✓
Matrix Spikes (MS)							
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	1	10	10.0	5.0	✓



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Metals on Quartz High-Volume Filter by CRC ICPMS	E456 ALS Environmental - Burlington	Air	EPA Method IO3.1 (preparation), IO-3.5/EPA Method 6020B (analysis)	Client-supplied hivol filters are leached, using a microwave-assisted process, for metals by CRC ICP-MS. Analytical results are reported on a per filter basis, with optional concentration units when air volumes are supplied.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm2.day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm2.day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm2.day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm2.day based on field information.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Total Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm ² .day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm ² .day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm ² .day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm ² .day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm ² .day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm ² .day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm ²)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm ²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

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 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion adapted from US EPA 200.2.
Preparation of Metals on Quartz High-Volume Filter by Microwave	EP456 ALS Environmental - Burlington	Air	EPA Method IO3.1 (preparation)	Client-supplied hivol filters are leached for metals by CRC ICP-MS or CVAA, using a microwave-assisted process.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400353	Page	: 1 of 16
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Sep-2024 14:00
PO	: 4700003553	Date Analysis Commenced	: 10-Sep-2024
C-O-C number	: ----	Issue Date	: 27-Sep-2024 17:26
Sampler	: ----		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 20		

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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
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Maya Urquhart	Lab Analyst	Vancouver Metals, Burnaby, British Columbia
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Wingyee Cheng	Analyst- General	Vancouver Metals, Burnaby, British Columbia

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Work Order : BU2400353
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Sample Preparation (QC Lot: 1655540)											
BU2400353-001	North-TSP-559	Volume, final	----	EP456	0.001	L	0.05	0.05		Diff <2x LOR	----
Metals (QC Lot: 1655540)											
BU2400353-001	North-TSP-559	Aluminum	7429-90-5	E456	9.0	µg/sample	159	94.1	51.3%	30%	----
		Antimony	7440-36-0	E456	0.25	µg/sample	<0.25	<0.25	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E456	3.0	µg/sample	<3.0	<3.0	0	Diff <2x LOR	----
		Barium	7440-39-3	E456	0.50	µg/sample	3.07	2.08	0.99	Diff <2x LOR	----
		Beryllium	7440-41-7	E456	0.050	µg/sample	<0.050	<0.050	0	Diff <2x LOR	----
		Bismuth	7440-69-9	E456	1.8	µg/sample	<1.8	<1.8	0	Diff <2x LOR	----
		Boron	7440-42-8	E456	15	µg/sample	<15	<15	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E456	0.027	µg/sample	0.027	0.028	0.001	Diff <2x LOR	----
		Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	<3.4	0	Diff <2x LOR	----
		Cobalt	7440-48-4	E456	0.030	µg/sample	0.048	0.045	0.003	Diff <2x LOR	----
		Copper	7440-50-8	E456	1.0	µg/sample	152	150	1.62%	30%	----
		Iron	7439-89-6	E456	12	µg/sample	107	89	18.5%	30%	----
		Lead	7439-92-1	E456	0.12	µg/sample	0.67	0.61	0.06	Diff <2x LOR	----
		Lithium	7439-93-2	E456	1.0	µg/sample	<1.0	<1.0	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E456	60	µg/sample	117	104	13	Diff <2x LOR	----
		Manganese	7439-96-5	E456	0.45	µg/sample	4.46	4.47	0.181%	30%	----
		Molybdenum	7439-98-7	E456	0.36	µg/sample	4.73	3.48	30.4%	30%	----
		Nickel	7440-02-0	E456	0.25	µg/sample	0.71	0.64	0.07	Diff <2x LOR	----
		Phosphorus	7723-14-0	E456	750	µg/sample	<750	<750	0	Diff <2x LOR	----
		Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	<1.3	0	Diff <2x LOR	----
		Silver	7440-22-4	E456	0.090	µg/sample	0.106	0.095	0.010	Diff <2x LOR	----
		Sodium	7440-23-5	E456	520	µg/sample	2560	# 1500	1050	Diff <2x LOR	----
		Strontium	7440-24-6	E456	3.0	µg/sample	7.8	6.9	0.9	Diff <2x LOR	----
		Thallium	7440-28-0	E456	0.090	µg/sample	<0.090	<0.090	0	Diff <2x LOR	----
		Tin	7440-31-5	E456	0.60	µg/sample	0.74	0.68	0.06	Diff <2x LOR	----
		Titanium	7440-32-6	E456	11	µg/sample	<11	<11	0	Diff <2x LOR	----
		Uranium	7440-61-1	E456	0.0060	µg/sample	<0.0060	<0.0060	0	Diff <2x LOR	----
		Vanadium	7440-62-2	E456	5.0	µg/sample	<5.0	<5.0	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 1655540) - continued											
BU2400353-001	North-TSP-559	Zinc	7440-66-6	E456	4.5	µg/sample	8.6	8.0	0.6	Diff <2x LOR	----
		Zirconium	7440-67-7	E456	2.0	µg/sample	<2.0	<2.0	0	Diff <2x LOR	----
Total Metals (QC Lot: 1667892)											
BU2400353-036	Dustfall-Trip Blank	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0055	0.0037	0.0018	Diff <2x LOR	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000073	0.000073	0.0000005	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.012	0.012	0.0008	Diff <2x LOR	----
		Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	0.000106	0.000110	0.000004	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	<0.015	<0.015	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Manganese, total	7439-96-5	E447	0.00010	mg	<0.00010	<0.00010	0	Diff <2x LOR	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	0.000040	0.000015	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1667892) - continued											
BU2400353-036	Dustfall-Trip Blank	Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	<0.0015	0	Diff <2x LOR	----
Total Metals (QC Lot: 1667893)											
BU2400353-035	Dustfall-Northwest	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0943	0.0858	9.43%	40%	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000057	<0.000050	0.000007	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.00112	0.00108	3.79%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.376	0.356	5.43%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	0.00033	0.00028	0.00006	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	0.118	0.108	9.39%	30%	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000136	0.000126	7.83%	40%	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.102	0.0962	6.39%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00621	0.00590	5.22%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	0.000026	<0.000025	0.0000005	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	0.00054	0.00046	0.00008	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	0.031	0.006	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	0.084	0.081	0.003	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.158	0.161	0.003	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	0.032	0.035	0.003	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.000854	0.000848	0.672%	40%	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0018	0.0017	0.0001	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1667894)											
BU2400353-036	Dustfall-Trip Blank	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
Total Metals (QC Lot: 1667895)											
BU2400353-033	Dustfall-North	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Sample Preparation (QCLot: 1655540)						
Volume, final	----	EP456	0.001	L	0.05	----
Particulates (QCLot: 1669302)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1669303)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1669304)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1669305)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Metals (QCLot: 1655540)						
Aluminum	7429-90-5	E456	9	µg/sample	# 49.3	----
Antimony	7440-36-0	E456	0.25	µg/sample	<0.25	----
Arsenic	7440-38-2	E456	3	µg/sample	<3.0	----
Barium	7440-39-3	E456	0.5	µg/sample	# 0.86	----
Beryllium	7440-41-7	E456	0.05	µg/sample	<0.050	----
Bismuth	7440-69-9	E456	1.8	µg/sample	<1.8	----
Boron	7440-42-8	E456	15	µg/sample	<15	----
Cadmium	7440-43-9	E456	0.027	µg/sample	<0.027	----
Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	----
Cobalt	7440-48-4	E456	0.03	µg/sample	<0.030	----
Copper	7440-50-8	E456	1	µg/sample	<1.0	----
Iron	7439-89-6	E456	12	µg/sample	# 15	----
Lead	7439-92-1	E456	0.12	µg/sample	# 0.14	----
Lithium	7439-93-2	E456	1	µg/sample	<1.0	----
Magnesium	7439-95-4	E456	60	µg/sample	<60	----
Manganese	7439-96-5	E456	0.45	µg/sample	<0.45	----
Molybdenum	7439-98-7	E456	0.36	µg/sample	<0.36	----
Nickel	7440-02-0	E456	0.25	µg/sample	# 0.72	----
Phosphorus	7723-14-0	E456	750	µg/sample	<750	----
Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	----
Silver	7440-22-4	E456	0.09	µg/sample	<0.090	----
Sodium	7440-23-5	E456	520	µg/sample	# 1390	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 1655540) - continued						
Strontium	7440-24-6	E456	3	µg/sample	# 6.3	----
Thallium	7440-28-0	E456	0.09	µg/sample	<0.090	----
Tin	7440-31-5	E456	0.6	µg/sample	<0.60	----
Titanium	7440-32-6	E456	11	µg/sample	<11	----
Uranium	7440-61-1	E456	0.006	µg/sample	<0.0060	----
Vanadium	7440-62-2	E456	5	µg/sample	<5.0	----
Zinc	7440-66-6	E456	4.5	µg/sample	<4.5	----
Zirconium	7440-67-7	E456	2	µg/sample	<2.0	----
Total Metals (QCLot: 1667892)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----

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 Work Order : BU2400353
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1667892) - continued						
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1667893)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1667893) - continued						
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1667894)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----
Total Metals (QCLot: 1667895)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1669302)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	103	85.0	115	----
Particulates (QCLot: 1669303)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	110	85.0	115	----
Particulates (QCLot: 1669304)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	100	85.0	115	----
Particulates (QCLot: 1669305)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	103	85.0	115	----
Metals (QCLot: 1655540)									
Aluminum	7429-90-5	E456	9	µg/sample	90 µg/sample	# 142	70.0	130	----
Antimony	7440-36-0	E456	0.25	µg/sample	45 µg/sample	108	70.0	130	----
Arsenic	7440-38-2	E456	3	µg/sample	45 µg/sample	104	70.0	130	----
Barium	7440-39-3	E456	0.5	µg/sample	11.2 µg/sample	102	70.0	130	----
Beryllium	7440-41-7	E456	0.05	µg/sample	4.5 µg/sample	100	70.0	130	----
Bismuth	7440-69-9	E456	1.8	µg/sample	45 µg/sample	103	70.0	130	----
Boron	7440-42-8	E456	15	µg/sample	45 µg/sample	104	70.0	130	----
Cadmium	7440-43-9	E456	0.027	µg/sample	4.5 µg/sample	104	70.0	130	----
Chromium	7440-47-3	E456	3.4	µg/sample	11.2 µg/sample	127	70.0	130	----
Cobalt	7440-48-4	E456	0.03	µg/sample	11.2 µg/sample	95.6	70.0	130	----
Copper	7440-50-8	E456	1	µg/sample	11.2 µg/sample	98.3	70.0	130	----
Iron	7439-89-6	E456	12	µg/sample	45 µg/sample	105	70.0	130	----
Lead	7439-92-1	E456	0.12	µg/sample	22.5 µg/sample	102	70.0	130	----
Lithium	7439-93-2	E456	1	µg/sample	11.2 µg/sample	94.0	70.0	130	----
Magnesium	7439-95-4	E456	60	µg/sample	2250 µg/sample	106	70.0	130	----
Manganese	7439-96-5	E456	0.45	µg/sample	11.2 µg/sample	95.0	70.0	130	----
Molybdenum	7439-98-7	E456	0.36	µg/sample	11.2 µg/sample	104	70.0	130	----
Nickel	7440-02-0	E456	0.25	µg/sample	22.5 µg/sample	95.2	70.0	130	----
Phosphorus	7723-14-0	E456	750	µg/sample	450 µg/sample	96.6	70.0	130	----
Selenium	7782-49-2	E456	1.3	µg/sample	45 µg/sample	106	70.0	130	----
Silver	7440-22-4	E456	0.09	µg/sample	4.5 µg/sample	97.8	70.0	130	----
Sodium	7440-23-5	E456	520	µg/sample	2250 µg/sample	101	70.0	130	----
Strontium	7440-24-6	E456	3	µg/sample	11.2 µg/sample	# 136	70.0	130	----
Thallium	7440-28-0	E456	0.09	µg/sample	45 µg/sample	104	70.0	130	----



Sub-Matrix: Air

Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 1655540) - continued									
Tin	7440-31-5	E456	0.6	µg/sample	22.5 µg/sample	102	70.0	130	----
Titanium	7440-32-6	E456	11	µg/sample	11.2 µg/sample	96.2	70.0	130	----
Uranium	7440-61-1	E456	0.006	µg/sample	0.225 µg/sample	104	70.0	130	----
Vanadium	7440-62-2	E456	5	µg/sample	22.5 µg/sample	97.5	70.0	130	----
Zinc	7440-66-6	E456	4.5	µg/sample	22.5 µg/sample	111	70.0	130	----
Zirconium	7440-67-7	E456	2	µg/sample	4.5 µg/sample	98.9	70.0	130	----
Total Metals (QCLot: 1667892)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	97.3	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	101	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	104	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	98.3	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	95.1	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	97.7	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	88.8	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	96.6	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	96.4	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	99.0	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	98.4	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	97.3	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	94.0	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	98.2	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	95.4	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	98.8	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	95.8	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	98.4	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	98.8	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	106	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	97.3	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	99.8	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	106	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	88.5	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	100	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	95.9	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	99.6	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	97.5	80.0	120	----



Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1667892) - continued									
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	97.3	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	101	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	101	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	103	80.0	120	----
Total Metals (QCLot: 1667893)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	105	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	106	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	105	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	98.6	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	104	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	100	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	98.6	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	104	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	105	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	101	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	102	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	99.9	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	100	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	101	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	102	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	104	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	99.8	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	104	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	101	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	103	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	105	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	98.5	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	102	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	96.1	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	104	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	103	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	93.7	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	104	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	98.5	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	103	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	104	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1667893) - continued									
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	99.6	80.0	120	----
Total Metals (QCLot: 1667894)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	93.7	70.0	130	----
Total Metals (QCLot: 1667895)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	89.8	70.0	130	----

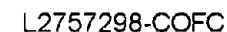


Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report							
					Spike		Recovery (%)	Recovery Limits (%)				
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier		
Sample Preparation (QCLot: 1655540)												
BU2400353-001	North-TSP-559	Volume, final	----	EP456	----	----		0	0	----		
Metals (QCLot: 1655540)												
BU2400353-001	North-TSP-559	Aluminum	7429-90-5	E456	ND µg/sample	----	ND	75.0	125	----		
		Antimony	7440-36-0	E456	44.3 µg/sample	45 µg/sample	98.5	75.0	125	----		
		Arsenic	7440-38-2	E456	46.6 µg/sample	45 µg/sample	103	75.0	125	----		
		Barium	7440-39-3	E456	10.1 µg/sample	11.2 µg/sample	90.0	75.0	125	----		
		Beryllium	7440-41-7	E456	4.39 µg/sample	4.5 µg/sample	97.6	75.0	125	----		
		Bismuth	7440-69-9	E456	46.0 µg/sample	45 µg/sample	102	75.0	125	----		
		Boron	7440-42-8	E456	40 µg/sample	45 µg/sample	89.7	75.0	125	----		
		Cadmium	7440-43-9	E456	4.80 µg/sample	4.5 µg/sample	107	75.0	125	----		
		Chromium	7440-47-3	E456	10.9 µg/sample	11.2 µg/sample	97.0	75.0	125	----		
		Cobalt	7440-48-4	E456	10.9 µg/sample	11.2 µg/sample	96.8	75.0	125	----		
		Copper	7440-50-8	E456	ND µg/sample	----	ND	75.0	125	----		
		Iron	7439-89-6	E456	ND µg/sample	----	ND	75.0	125	----		
		Lead	7439-92-1	E456	23.3 µg/sample	22.5 µg/sample	104	75.0	125	----		
		Lithium	7439-93-2	E456	10.3 µg/sample	11.2 µg/sample	91.7	75.0	125	----		
		Magnesium	7439-95-4	E456	2340 µg/sample	2250 µg/sample	104	75.0	125	----		
		Manganese	7439-96-5	E456	11.0 µg/sample	11.2 µg/sample	98.1	75.0	125	----		
		Molybdenum	7439-98-7	E456	10.4 µg/sample	11.2 µg/sample	92.4	75.0	125	----		
		Nickel	7440-02-0	E456	21.6 µg/sample	22.5 µg/sample	96.2	75.0	125	----		
		Phosphorus	7723-14-0	E456	ND µg/sample	----	ND	75.0	125	----		
		Selenium	7782-49-2	E456	47.5 µg/sample	45 µg/sample	106	75.0	125	----		
		Silver	7440-22-4	E456	4.25 µg/sample	4.5 µg/sample	94.5	75.0	125	----		
		Sodium	7440-23-5	E456	ND µg/sample	----	ND	75.0	125	----		
		Strontium	7440-24-6	E456	11.2 µg/sample	11.2 µg/sample	99.2	75.0	125	----		
		Thallium	7440-28-0	E456	48.1 µg/sample	45 µg/sample	107	75.0	125	----		
		Tin	7440-31-5	E456	23.0 µg/sample	22.5 µg/sample	102	75.0	125	----		
		Titanium	7440-32-6	E456	9 µg/sample	11.2 µg/sample	76.6	75.0	125	----		
		Uranium	7440-61-1	E456	0.234 µg/sample	0.225 µg/sample	104	75.0	125	----		
				Vanadium	7440-62-2	E456	21.8 µg/sample	22.5 µg/sample	97.1	75.0	125	----
				Zinc	7440-66-6	E456	24.2 µg/sample	22.5 µg/sample	107	75.0	125	----
		Zirconium	7440-67-7	E456	3.3 µg/sample	4.5 µg/sample	74.3	75.0	125	----		
Total Metals (QCLot: 1667895)												
BU2400353-034	Dustfall-South	Mercury, total	7439-97-6	E516	0.000213 mg	0 mg	88.9	70.0	130	----		





Chain of Custody / Analytical Request Form
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Environmental Division
Burlington
Work Order Reference
BU2400353



Telephone : + 1 905 331 3111

CERTIFICATE OF ANALYSIS

Work Order	: BU2400353		
Amendment	: 1		
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Vancouver
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick Ontario Canada P0W 1A0	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: 807 234 8200	Telephone	: +1 604 253 4188
Project	: BU Air Quality	Date Samples Received	: 05-Sep-2024 14:00
PO	: 4700003553	Date Analysis Commenced	: 10-Sep-2024
C-O-C number	: ----	Issue Date	: 11-Oct-2024 13:07
Sampler	: ----		
Site	: ----		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 36		

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

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>
Aaron Burton	Login	Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kristen Chan	Analyst	Metals, Burlington, Ontario
Maya Urquhart	Lab Analyst	Metals, Burnaby, British Columbia
Milithza Silva	Manager - Inorganics	Metals, Burlington, Ontario
Monica Ko	Lab Assistant	Inorganics, Burnaby, British Columbia
Wingyee Cheng	Analyst- General	Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
µg/sample	micrograms per sample
cm ²	square centimetres
days	days
mg/dm ² .day	milligrams per square decimetre per day
mg	milligrams

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Ni observed in the MB at a level significantly above its LOR. Sample data may be biased high as a result of this background contribution.





Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

					Client sample ID	North-TSP-559	North-TSP-560	North-TSP-561	North-TSP-562	North-TSP-563
Client sampling date / time						04-Aug-2024 00:00	10-Aug-2024 00:00	16-Aug-2024 00:00	22-Aug-2024 00:00	28-Aug-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-001	BU2400353-002	BU2400353-003	BU2400353-004	BU2400353-005	
					Result	Result	Result	Result	Result	
Metals										
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	<3.0	<3.0	<3.0	<3.0	
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	0.027	<0.027	0.030	0.070	0.035	
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	<3.4	<3.4	<3.4	<3.4	
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	0.048	0.120	0.040	0.127	0.327	
Copper	7440-50-8	E456/BU	1.0	µg/sample	152	143	150	155	127	
Iron	7439-89-6	E456/BU	12	µg/sample	107	207	86	287	767	
Lead	7439-92-1	E456/BU	0.12	µg/sample	0.67	1.06	0.78	1.73	0.67	
Manganese	7439-96-5	E456/BU	0.45	µg/sample	4.46	7.50	3.33	10.3	23.6	
Nickel	7440-02-0	E456/BU	0.25	µg/sample	0.71	0.78	0.60	1.14	1.44	
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	<1.3	<1.3	<1.3	<1.3	
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	<5.0	<5.0	<5.0	<5.0	
Zinc	7440-66-6	E456/BU	4.5	µg/sample	8.6	12.2	10.0	16.8	16.7	

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.



Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

					Client sample ID	South-TSP-559	South-TSP-560	South-TSP-561	South-TSP-562	South-TSP-563
Client sampling date / time						04-Aug-2024 00:00	10-Aug-2024 00:00	16-Aug-2024 00:00	22-Aug-2024 00:00	28-Aug-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-006	BU2400353-007	BU2400353-008	BU2400353-009	BU2400353-010	
					Result	Result	Result	Result	Result	
Metals										
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	<0.027	<0.027	0.049	0.180	0.147	
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	0.085	0.157	0.152	0.201	0.366	
Copper	7440-50-8	E456/BU	1.0	µg/sample	87.7	119	110	122	115	
Iron	7439-89-6	E456/BU	12	µg/sample	170	267	363	368	659	
Lead	7439-92-1	E456/BU	0.12	µg/sample	0.65	0.76	2.40	2.34	1.11	
Manganese	7439-96-5	E456/BU	0.45	µg/sample	6.34	8.19	14.0	13.4	15.3	
Nickel	7440-02-0	E456/BU	0.25	µg/sample	0.91	0.93	1.26	0.99	1.25	
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Zinc	7440-66-6	E456/BU	4.5	µg/sample	8.3	9.4	19.3	21.1	12.5	

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.



Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

					Client sample ID	Northwest-TSP-559	Northwest-TSP-560	Northwest-TSP-561	Northwest-TSP-562	Northwest-TSP-563
Client sampling date / time						04-Aug-2024 00:00	10-Aug-2024 00:00	16-Aug-2024 00:00	22-Aug-2024 00:00	28-Aug-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit		BU2400353-011	BU2400353-012	BU2400353-013	BU2400353-014	BU2400353-015
						Result	Result	Result	Result	Result
Metals										
Arsenic	7440-38-2	E456/BU	3.0	µg/sample		<3.0	<3.0	<3.0	<3.0	<3.0
Cadmium	7440-43-9	E456/BU	0.027	µg/sample		0.029	<0.027	0.031	0.110	0.090
Chromium	7440-47-3	E456/BU	3.4	µg/sample		<3.4	<3.4	<3.4	4.4	9.1
Cobalt	7440-48-4	E456/BU	0.030	µg/sample		0.140	0.036	0.225	0.422	1.16
Copper	7440-50-8	E456/BU	1.0	µg/sample		308	164	231	264	115
Iron	7439-89-6	E456/BU	12	µg/sample		322	72	467	931	2690
Lead	7439-92-1	E456/BU	0.12	µg/sample		2.97	0.74	0.96	2.42	2.94
Manganese	7439-96-5	E456/BU	0.45	µg/sample		11.9	2.50	12.7	27.9	73.4
Nickel	7440-02-0	E456/BU	0.25	µg/sample		1.00	0.48	1.38	2.14	4.86
Selenium	7782-49-2	E456/BU	1.3	µg/sample		<1.3	<1.3	<1.3	<1.3	<1.3
Vanadium	7440-62-2	E456/BU	5.0	µg/sample		<5.0	<5.0	<5.0	<5.0	5.2
Zinc	7440-66-6	E456/BU	4.5	µg/sample		12.7	6.2	11.3	23.8	32.5

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.



Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

Client sample ID					TSP-August Trip Blank	----	----	----	----
Client sampling date / time					01-Sep-2024 00:00	----	----	----	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-016	----	----	----	----
					Result	----	----	----	----
Metals									
Arsenic	7440-38-2	E456/BU	3.0	µg/sampl e	<3.0	----	----	----	----
Cadmium	7440-43-9	E456/BU	0.027	µg/sampl e	<0.027	----	----	----	----
Cobalt	7440-48-4	E456/BU	0.030	µg/sampl e	<0.030	----	----	----	----
Copper	7440-50-8	E456/BU	1.0	µg/sampl e	1.2	----	----	----	----
Iron	7439-89-6	E456/BU	12	µg/sampl e	16	----	----	----	----
Lead	7439-92-1	E456/BU	0.12	µg/sampl e	<0.12	----	----	----	----
Manganese	7439-96-5	E456/BU	0.45	µg/sampl e	<0.45	----	----	----	----
Nickel	7440-02-0	E456/BU	0.25	µg/sampl e	0.48	----	----	----	----
Selenium	7782-49-2	E456/BU	1.3	µg/sampl e	<1.3	----	----	----	----
Vanadium	7440-62-2	E456/BU	5.0	µg/sampl e	<5.0	----	----	----	----
Zinc	7440-66-6	E456/BU	4.5	µg/sampl e	<4.5	----	----	----	----

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.

Analytical Results

Sub-Matrix: Dustfall
 (Matrix: Air)

Client sample ID					Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time					01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	----
					Result	Result	Result	Result	----
Field Tests									
Area sampled, field	----	EF001A/VA	0.010	cm ²	55.4	55.4	55.4	55.4	----
Sampling time, field	----	EF001B/BU	1	days	32	32	32	32	----



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time						01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	----	----
					Result	Result	Result	Result		----
Particulates										
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm ² .day	0.19	0.21	0.28	<0.11		----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm ² .day	0.45	0.54	<0.10	<0.10		----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm ² .day	0.64	0.76	0.32	<0.11		----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm ² .day	0.12	0.15	<0.11	<0.11		----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm ² .day	<0.10	<0.10	0.11	<0.10		----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm ² .day	0.14	0.19	0.11	<0.11		----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm ² .day	0.32	0.36	0.28	<0.21		----
Dustfall, volatile	----	EC883V2.A/VA	0.10	mg/dm ² .day	0.46	0.59	0.15	<0.10		----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm ² .day	0.78	0.95	0.43	<0.21		----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	3.4	3.8	4.9	<1.9		----
Dustfall, total insoluble	----	E882/VA	1.9	mg	11.4	13.4	5.6	<1.9		----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	2.2	2.6	<1.9	<1.9		----
Dustfall, total soluble	----	E881/VA	1.9	mg	2.4	3.4	2.0	<1.9		----
Total Metals										
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm ² .day	0.00301	0.00473	0.00532	0.000310		----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm ² .day	<0.0000028	<0.0000028	<0.0000028	<0.0000028		----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm ² .day	<0.0000028	0.0000035	0.0000032	0.0000041		----
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm ² .day	0.0000487	0.0000626	0.0000632	<0.0000028		----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm ² .day	<0.000014	<0.000014	<0.000014	<0.000014		----



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time					01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----	
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	----	
					Result	Result	Result	Result	----	
Total Metals										
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm².d ay	<0.000014	<0.000014	<0.000014	<0.000014	----	
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm².d ay	<0.00028	<0.00028	<0.00028	<0.00028	----	
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm².d ay	<0.0000013	0.0000014	<0.0000013	<0.0000013	----	
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm².d ay	0.0181	0.0227	0.0212	0.00068	----	
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm².d ay	<0.000014	0.000015	0.000019	<0.000014	----	
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm².d ay	<0.0000028	0.0000041	<0.0000028	0.0000060	----	
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm².d ay	0.000050	0.000073	<0.000028	<0.000028	----	
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm².d ay	0.00384	0.00660	0.00666	<0.00084	----	
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm².d ay	0.0000144	0.0000152	0.0000077	<0.0000014	----	
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm².d ay	<0.00014	<0.00014	<0.00014	<0.00014	----	
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm².d ay	0.00551	0.00767	0.00575	<0.00014	----	
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm².d ay	0.000248	0.000487	0.000350	<0.0000056	----	
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm².d ay	<0.0000014	<0.0000014	<0.0000014	<0.0000014	----	
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm².d ay	0.0000024	0.0000035	0.0000015	<0.0000014	----	
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm².d ay	<0.000014	0.000021	0.000030	<0.000014	----	
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm².d ay	0.0157	0.0113	<0.0014	<0.0014	----	
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm².d ay	0.0383	0.0193	0.0047	<0.0014	----	
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm².d ay	<0.000028	<0.000028	<0.000028	<0.000028	----	
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm².d ay	0.0052	0.0077	0.0089	<0.0014	----	



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time					01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----	
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	----	
					Result	Result	Result	Result	----	
Total Metals										
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm².d ay	<0.00000028	<0.00000028	<0.00000028	<0.00000028	----	
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm².d ay	0.0030	0.0048	0.0018	<0.0014	----	
Strontium, total	7440-24-6	EC447/VA	0.00000026	mg/dm².d ay	0.0000506	0.0000570	0.0000482	<0.0000028	----	
Thallium, total	7440-28-0	EC447/VA	0.00000026	mg/dm².d ay	<0.00000028	<0.00000028	<0.00000028	<0.00000028	----	
Tin, total	7440-31-5	EC447/VA	0.00000026	mg/dm².d ay	<0.00000028	<0.00000028	<0.00000028	<0.00000028	----	
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm².d ay	<0.00028	<0.00028	<0.00028	<0.00028	----	
Uranium, total	7440-61-1	EC447/VA	0.00000026	mg/dm².d ay	<0.00000026	<0.00000026	<0.00000026	<0.00000026	----	
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm².d ay	<0.000028	<0.000028	<0.000028	<0.000028	----	
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm².d ay	0.000220	0.000355	0.000102	<0.000084	----	
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.0534	0.0838	0.0943	0.0055	----	
Antimony, total	7440-36-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	<0.000050	0.000062	0.000057	0.000073	----	
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.000864	0.00111	0.00112	<0.000050	----	
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00025	<0.00025	----	
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	<0.000020	0.000024	<0.000020	<0.000020	----	
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.321	0.403	0.376	0.012	----	
Chromium, total	7440-47-3	E447/VA	0.00025	mg	<0.00025	0.00027	0.00033	<0.00025	----	
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	<0.000050	0.000072	<0.000050	0.000106	----	



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
Client sampling date / time					01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----	
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	----	
					Result	Result	Result	Result	----	
Total Metals										
Copper, total	7440-50-8	E447/VA	0.00050	mg	0.00089	0.00129	<0.00050	<0.00050	----	
Iron, total	7439-89-6	E447/VA	0.015	mg	0.068	0.117	0.118	<0.015	----	
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000256	0.000269	0.000136	<0.000025	----	
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0025	<0.0025	----	
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.0977	0.136	0.102	<0.0025	----	
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.00440	0.00863	0.00621	<0.00010	----	
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000025	<0.000025	<0.000025	<0.000025	----	
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	0.000043	0.000062	0.000026	<0.000025	----	
Nickel, total	7440-02-0	E447/VA	0.00025	mg	<0.00025	0.00037	0.00054	<0.00025	----	
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	0.279	0.201	<0.025	<0.025	----	
Potassium, total	7440-09-7	E447/VA	0.025	mg	0.679	0.343	0.084	<0.025	----	
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.093	0.136	0.158	<0.025	----	
Silver, total	7440-22-4	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Sodium, total	7440-23-5	E447/VA	0.025	mg	0.054	0.086	0.032	<0.025	----	
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.000897	0.00101	0.000854	<0.000050	----	
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000050	<0.000050	----	
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0050	<0.0050	----	
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00050	<0.00050	----	



Analytical Results

Sub-Matrix: Dustfall
(Matrix: Air)

					Client sample ID	Dustfall-North	Dustfall-South	Dustfall-Northwest	Dustfall-Trip Blank	----
					Client sampling date / time	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	01-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit		BU2400353-033	BU2400353-034	BU2400353-035	BU2400353-036	----
						Result	Result	Result	Result	----
Total Metals										
Zinc, total	7440-66-6	E447/VA	0.0015	mg		0.0039	0.0063	0.0018	<0.0015	----

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400353	Page	: 1 of 13
Amendment	: 1		
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Sep-2024 14:00
PO	: 4700003553	Issue Date	: 11-Oct-2024 13:05
C-O-C number	: ----		
Sampler	: ----		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 20		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Metals	QC-1655540-001	----	Iron	7439-89-6	E456	15 µg/sampl e	12 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Lead	7439-92-1	E456	0.14 µg/sampl e	0.12 µg/sample	Blank result exceeds permitted value
Metals	QC-1655540-001	----	Nickel	7440-02-0	E456	0.72 µg/sampl e	0.25 µg/sample	Blank result exceeds permitted value



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-North	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-South	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	EF001A	01-Sep-2024	----	----	----		25-Sep-2024	----	25 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-North	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Northwest	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-South	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	EF001B	01-Sep-2024	----	----	----		10-Sep-2024	----	9 days	
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) TSP-August Trip Blank	E456	01-Sep-2024	17-Sep-2024	180 days	17 days	✓	18-Sep-2024	180 days	17 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) North-TSP-563	E456	28-Aug-2024	17-Sep-2024	180 days	21 days	✓	18-Sep-2024	180 days	21 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) Northwest-TSP-563	E456	28-Aug-2024	17-Sep-2024	180 days	21 days	✓	18-Sep-2024	180 days	21 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) South-TSP-563	E456	28-Aug-2024	17-Sep-2024	180 days	21 days	✓	18-Sep-2024	180 days	21 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) North-TSP-562	E456	22-Aug-2024	17-Sep-2024	180 days	27 days	✓	18-Sep-2024	180 days	27 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) Northwest-TSP-562	E456	22-Aug-2024	17-Sep-2024	180 days	27 days	✓	18-Sep-2024	180 days	27 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) South-TSP-562	E456	22-Aug-2024	17-Sep-2024	180 days	27 days	✓	18-Sep-2024	180 days	27 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) North-TSP-561	E456	16-Aug-2024	17-Sep-2024	180 days	33 days	✓	18-Sep-2024	180 days	33 days	✓



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) Northwest-TSP-561	E456	16-Aug-2024	17-Sep-2024	180 days	33 days	✓	18-Sep-2024	180 days	33 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) South-TSP-561	E456	16-Aug-2024	17-Sep-2024	180 days	33 days	✓	18-Sep-2024	180 days	33 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) North-TSP-560	E456	10-Aug-2024	17-Sep-2024	180 days	39 days	✓	18-Sep-2024	180 days	39 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) Northwest-TSP-560	E456	10-Aug-2024	17-Sep-2024	180 days	39 days	✓	18-Sep-2024	180 days	39 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) South-TSP-560	E456	10-Aug-2024	17-Sep-2024	180 days	39 days	✓	18-Sep-2024	180 days	39 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) North-TSP-559	E456	04-Aug-2024	17-Sep-2024	180 days	45 days	✓	18-Sep-2024	180 days	45 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) Northwest-TSP-559	E456	04-Aug-2024	17-Sep-2024	180 days	45 days	✓	18-Sep-2024	180 days	45 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) South-TSP-559	E456	04-Aug-2024	17-Sep-2024	180 days	45 days	✓	18-Sep-2024	180 days	45 days	✓
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E885	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E884	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E882	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-North	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-South	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E881	01-Sep-2024	24-Sep-2024	----	----		24-Sep-2024	----	24 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E516	01-Sep-2024	24-Sep-2024	180 days	23 days	✓	25-Sep-2024	180 days	1 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Trip Blank	E447	01-Sep-2024	24-Sep-2024	180 days	24 days	✓	25-Sep-2024	180 days	25 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-North	E447	01-Sep-2024	25-Sep-2024	180 days	25 days	✓	26-Sep-2024	180 days	26 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-Northwest	E447	01-Sep-2024	25-Sep-2024	180 days	25 days	✓	26-Sep-2024	180 days	26 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (algecide) Dustfall-South	E447	01-Sep-2024	25-Sep-2024	180 days	25 days	✓	26-Sep-2024	180 days	26 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1667893	2	10	20.0	5.0	✓
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1669302	1	16	6.2	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1669303	1	10	10.0	5.0	✓
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1669305	1	16	6.2	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1667893	2	10	20.0	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1669304	1	10	10.0	5.0	✓
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1669302	1	16	6.2	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1669303	1	10	10.0	5.0	✓
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1669305	1	16	6.2	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1667893	2	10	20.0	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1669304	1	10	10.0	5.0	✓
Matrix Spikes (MS)							
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1655540	1	17	5.8	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1667895	1	10	10.0	5.0	✓



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Metals on Quartz High-Volume Filter by CRC ICPMS	E456 ALS Environmental - Burlington	Air	EPA Method IO3.1 (preparation), IO-3.5/EPA Method 6020B (analysis)	Client-supplied hivol filters are leached, using a microwave-assisted process, for metals by CRC ICP-MS. Analytical results are reported on a per filter basis, with optional concentration units when air volumes are supplied.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Total Metals by ICPMS (Dustfall, mg/dm2.day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm2.day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm2.day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm2.day based on field information.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Total Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm ² .day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm ² .day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm ² .day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm ² .day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm ² .day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm ² .day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Dustfall Canister Area (cm ²)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm ²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

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Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion adapted from US EPA 200.2.
Preparation of Metals on Quartz High-Volume Filter by Microwave	EP456 ALS Environmental - Burlington	Air	EPA Method IO3.1 (preparation)	Client-supplied hivol filters are leached for metals by CRC ICP-MS or CVAA, using a microwave-assisted process.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400353	Page	: 1 of 12
Amendment	: 1		
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 05-Sep-2024 14:00
PO	: 4700003553	Date Analysis Commenced	: 10-Sep-2024
C-O-C number	: ----	Issue Date	: 11-Oct-2024 13:06
Sampler	: ----		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 20		

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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Maya Urquhart	Lab Analyst	Vancouver Metals, Burnaby, British Columbia
Milithza Silva	Manager - Inorganics	Burlington Metals, Burlington, Ontario
Monica Ko	Lab Assistant	Vancouver Inorganics, Burnaby, British Columbia
Wingyee Cheng	Analyst- General	Vancouver Metals, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 1655540)											
BU2400353-001	North-TSP-559	Arsenic	7440-38-2	E456	3.0	µg/sample	<3.0	<3.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E456	0.027	µg/sample	0.027	0.028	0.001	Diff <2x LOR	----
		Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	<3.4	0	Diff <2x LOR	----
		Cobalt	7440-48-4	E456	0.030	µg/sample	0.048	0.045	0.003	Diff <2x LOR	----
		Copper	7440-50-8	E456	1.0	µg/sample	152	150	1.62%	30%	----
		Iron	7439-89-6	E456	12	µg/sample	107	89	18.5%	30%	----
		Lead	7439-92-1	E456	0.12	µg/sample	0.67	0.61	0.06	Diff <2x LOR	----
		Manganese	7439-96-5	E456	0.45	µg/sample	4.46	4.47	0.181%	30%	----
		Nickel	7440-02-0	E456	0.25	µg/sample	0.71	0.64	0.07	Diff <2x LOR	----
		Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	<1.3	0	Diff <2x LOR	----
		Vanadium	7440-62-2	E456	5.0	µg/sample	<5.0	<5.0	0	Diff <2x LOR	----
		Zinc	7440-66-6	E456	4.5	µg/sample	8.6	8.0	0.6	Diff <2x LOR	----
Total Metals (QC Lot: 1667892)											
BU2400353-036	Dustfall-Trip Blank	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0055	0.0037	0.0018	Diff <2x LOR	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000073	0.000073	0.0000005	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.012	0.012	0.0008	Diff <2x LOR	----
		Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	0.000106	0.000110	0.000004	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	<0.015	<0.015	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Manganese, total	7439-96-5	E447	0.00010	mg	<0.00010	<0.00010	0	Diff <2x LOR	----

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Sub-Matrix: Air

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1667892) - continued											
BU2400353-036	Dustfall-Trip Blank	Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	0.000040	0.000015	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	<0.025	<0.025	0	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	<0.0015	0	Diff <2x LOR	----
Total Metals (QC Lot: 1667893)											
BU2400353-035	Dustfall-Northwest	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0943	0.0858	9.43%	40%	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	0.000057	<0.000050	0.000007	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.00112	0.00108	3.79%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.376	0.356	5.43%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	0.00033	0.00028	0.00006	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	0.118	0.108	9.39%	30%	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000136	0.000126	7.83%	40%	----
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.102	0.0962	6.39%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00621	0.00590	5.22%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	0.000026	<0.000025	0.0000005	Diff <2x LOR	----



Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1667893) - continued											
BU2400353-035	Dustfall-Northwest	Nickel, total	7440-02-0	E447	0.00025	mg	0.00054	0.00046	0.00008	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	0.031	0.006	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	0.084	0.081	0.003	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.158	0.161	0.003	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	0.032	0.035	0.003	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.000854	0.000848	0.672%	40%	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0018	0.0017	0.0001	Diff <2x LOR	----
Total Metals (QC Lot: 1667894)											
BU2400353-036	Dustfall-Trip Blank	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
Total Metals (QC Lot: 1667895)											
BU2400353-033	Dustfall-North	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1669302)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1669303)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1669304)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1669305)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Metals (QCLot: 1655540)						
Arsenic	7440-38-2	E456	3	µg/sample	<3.0	----
Cadmium	7440-43-9	E456	0.027	µg/sample	<0.027	----
Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	----
Cobalt	7440-48-4	E456	0.03	µg/sample	<0.030	----
Copper	7440-50-8	E456	1	µg/sample	<1.0	----
Iron	7439-89-6	E456	12	µg/sample	# 15	----
Lead	7439-92-1	E456	0.12	µg/sample	# 0.14	----
Manganese	7439-96-5	E456	0.45	µg/sample	<0.45	----
Nickel	7440-02-0	E456	0.25	µg/sample	# 0.72	----
Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	----
Vanadium	7440-62-2	E456	5	µg/sample	<5.0	----
Zinc	7440-66-6	E456	4.5	µg/sample	<4.5	----
Total Metals (QCLot: 1667892)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----

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 Work Order : BU2400353 Amendment 1
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1667892) - continued						
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1667893)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----

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 Work Order : BU2400353 Amendment 1
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1667893) - continued						
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1667894)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----
Total Metals (QCLot: 1667895)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1669302)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	103	85.0	115	----
Particulates (QCLot: 1669303)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	110	85.0	115	----
Particulates (QCLot: 1669304)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	100	85.0	115	----
Particulates (QCLot: 1669305)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	103	85.0	115	----
Metals (QCLot: 1655540)									
Arsenic	7440-38-2	E456	3	µg/sample	45 µg/sample	104	70.0	130	----
Cadmium	7440-43-9	E456	0.027	µg/sample	4.5 µg/sample	104	70.0	130	----
Chromium	7440-47-3	E456	3.4	µg/sample	11.2 µg/sample	127	70.0	130	----
Cobalt	7440-48-4	E456	0.03	µg/sample	11.2 µg/sample	95.6	70.0	130	----
Copper	7440-50-8	E456	1	µg/sample	11.2 µg/sample	98.3	70.0	130	----
Iron	7439-89-6	E456	12	µg/sample	45 µg/sample	105	70.0	130	----
Lead	7439-92-1	E456	0.12	µg/sample	22.5 µg/sample	102	70.0	130	----
Manganese	7439-96-5	E456	0.45	µg/sample	11.2 µg/sample	95.0	70.0	130	----
Nickel	7440-02-0	E456	0.25	µg/sample	22.5 µg/sample	95.2	70.0	130	----
Selenium	7782-49-2	E456	1.3	µg/sample	45 µg/sample	106	70.0	130	----
Vanadium	7440-62-2	E456	5	µg/sample	22.5 µg/sample	97.5	70.0	130	----
Zinc	7440-66-6	E456	4.5	µg/sample	22.5 µg/sample	111	70.0	130	----
Total Metals (QCLot: 1667892)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	97.3	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	101	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	104	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	98.3	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	95.1	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	97.7	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	88.8	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	96.6	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	96.4	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	99.0	80.0	120	----



Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1667892) - continued									
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	98.4	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	97.3	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	94.0	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	98.2	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	95.4	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	98.8	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	95.8	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	98.4	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	98.8	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	106	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	97.3	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	99.8	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	106	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	88.5	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	100	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	95.9	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	99.6	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	97.5	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	97.3	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	101	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	101	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	103	80.0	120	----
Total Metals (QCLot: 1667893)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	105	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	106	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	105	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	98.6	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	104	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	100	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	98.6	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	104	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	105	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	101	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	102	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	99.9	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	100	80.0	120	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1667893) - continued									
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	101	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	102	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	104	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	99.8	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	104	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	101	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	103	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	105	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	98.5	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	102	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	96.1	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	104	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	103	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	93.7	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	104	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	98.5	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	103	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	104	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	99.6	80.0	120	----
Total Metals (QCLot: 1667894)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	93.7	70.0	130	----
Total Metals (QCLot: 1667895)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	89.8	70.0	130	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Metals (QCLot: 1655540)										
BU2400353-001	North-TSP-559	Arsenic	7440-38-2	E456	46.6 µg/sample	45 µg/sample	103	75.0	125	----
		Cadmium	7440-43-9	E456	4.80 µg/sample	4.5 µg/sample	107	75.0	125	----
		Chromium	7440-47-3	E456	10.9 µg/sample	11.2 µg/sample	97.0	75.0	125	----
		Cobalt	7440-48-4	E456	10.9 µg/sample	11.2 µg/sample	96.8	75.0	125	----
		Copper	7440-50-8	E456	ND µg/sample	----	ND	75.0	125	----
		Iron	7439-89-6	E456	ND µg/sample	----	ND	75.0	125	----
		Lead	7439-92-1	E456	23.3 µg/sample	22.5 µg/sample	104	75.0	125	----
		Manganese	7439-96-5	E456	11.0 µg/sample	11.2 µg/sample	98.1	75.0	125	----
		Nickel	7440-02-0	E456	21.6 µg/sample	22.5 µg/sample	96.2	75.0	125	----
		Selenium	7782-49-2	E456	47.5 µg/sample	45 µg/sample	106	75.0	125	----
		Vanadium	7440-62-2	E456	21.8 µg/sample	22.5 µg/sample	97.1	75.0	125	----
		Zinc	7440-66-6	E456	24.2 µg/sample	22.5 µg/sample	107	75.0	125	----
Total Metals (QCLot: 1667895)										
BU2400353-034	Dustfall-South	Mercury, total	7439-97-6	E516	0.000213 mg	0 mg	88.9	70.0	130	----

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Environmental Division
Burlington
Work Order Reference
BU2400353



Telephone : +1 905 331 3111

CERTIFICATE OF ANALYSIS

Work Order	: BU2400732		
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Vancouver
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick Ontario Canada P0W 1A0	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: 807 234 8200	Telephone	: +1 604 253 4188
Project	: BU Air Quality	Date Samples Received	: 10-Oct-2024 12:20
PO	: 4700003553	Date Analysis Commenced	: 11-Oct-2024
C-O-C number	: ----	Issue Date	: 31-Oct-2024 15:23
Sampler	: Client		
Site	: ----		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 36		

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

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>
Aaron Burton	Login	Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Milithza Silva	Manager - Inorganics	Inorganics, Burlington, Ontario
Milithza Silva	Manager - Inorganics	Metals, Burlington, Ontario
Monica Ko	Lab Assistant	Inorganics, Burnaby, British Columbia
Owen Cheng		Metals, Burnaby, British Columbia



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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
µg/sample	micrograms per sample
cm ²	square centimetres
days	days
mg/dm ² .day	milligrams per square decimetre per day
mg	milligrams

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

As and Cr recovery in the MS is outside ALS DQOs. This may be due to a spiking error. No impact to data quality is suspected. SA 25-Oct-24

Work Order : BU2400732
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality





Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

					Client sample ID	NORTH-TSP-564	NORTH-TSP-565	NORTH-TSP-566	NORTH-TSP-567	NORTH-TSP-568
Client sampling date / time						03-Sep-2024 00:00	09-Sep-2024 00:00	15-Sep-2024 00:00	21-Sep-2024 00:00	27-Sep-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-001	BU2400732-002	BU2400732-003	BU2400732-004	BU2400732-005	
					Result	Result	Result	Result	Result	
Particulates										
Particulate matter, filter	----	E896-T/BU	2300	µg/sample	39700	36600	33100	27100	40500	
Metals										
Arsenic	7440-38-2	E456/BU	3.0	µg/sample	<3.0	<3.0	<3.0	<3.0	<3.0	
Cadmium	7440-43-9	E456/BU	0.027	µg/sample	0.106	0.090	0.117	0.073	0.106	
Chromium	7440-47-3	E456/BU	3.4	µg/sample	<3.4	<3.4	<3.4	<3.4	<3.4	
Cobalt	7440-48-4	E456/BU	0.030	µg/sample	0.261	0.354	0.295	0.164	1.18	
Copper	7440-50-8	E456/BU	1.0	µg/sample	117	163	164	282	188	
Iron	7439-89-6	E456/BU	12	µg/sample	384	754	511	278	558	
Lead	7439-92-1	E456/BU	0.12	µg/sample	1.56	1.19	2.23	1.00	4.62	
Manganese	7439-96-5	E456/BU	0.45	µg/sample	20.1	42.3	20.5	13.2	31.4	
Nickel	7440-02-0	E456/BU	0.25	µg/sample	1.04	2.06	1.35	1.50	3.79	
Selenium	7782-49-2	E456/BU	1.3	µg/sample	<1.3	<1.3	<1.3	<1.3	<1.3	
Vanadium	7440-62-2	E456/BU	5.0	µg/sample	<5.0	<5.0	<5.0	<5.0	<5.0	
Zinc	7440-66-6	E456/BU	4.5	µg/sample	18.5	11.5	17.2	13.2	37.4	

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.



Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

					Client sample ID	SOUTH-TSP-564	SOUTH-TSP-565	SOUTH-TSP-566	SOUTH-TSP-567	SOUTH-TSP-568
Client sampling date / time						03-Sep-2024 00:00	09-Sep-2024 00:00	15-Sep-2024 00:00	21-Sep-2024 00:00	27-Sep-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-006	BU2400732-007	BU2400732-008	BU2400732-009	BU2400732-010	
					Result	Result	Result	Result	Result	
Particulates										
Particulate matter, filter	----	E896-T/BU	2300	µg/sampl e	49700	47100	50400	27400	56200	
Metals										
Arsenic	7440-38-2	E456/BU	3.0	µg/sampl e	<3.0	<3.0	<3.0	<3.0	<3.0	
Cadmium	7440-43-9	E456/BU	0.027	µg/sampl e	0.170	0.124	0.178	0.241	0.159	
Chromium	7440-47-3	E456/BU	3.4	µg/sampl e	<3.4	<3.4	<3.4	<3.4	4.6	
Cobalt	7440-48-4	E456/BU	0.030	µg/sampl e	0.550	0.612	0.570	0.180	0.662	
Copper	7440-50-8	E456/BU	1.0	µg/sampl e	130	136	173	146	206	
Iron	7439-89-6	E456/BU	12	µg/sampl e	862	932	934	354	1430	
Lead	7439-92-1	E456/BU	0.12	µg/sampl e	1.73	1.45	2.38	1.15	4.25	
Manganese	7439-96-5	E456/BU	0.45	µg/sampl e	32.6	45.6	28.5	13.6	46.1	
Nickel	7440-02-0	E456/BU	0.25	µg/sampl e	2.73	2.07	1.74	1.20	2.59	
Selenium	7782-49-2	E456/BU	1.3	µg/sampl e	<1.3	<1.3	<1.3	<1.3	<1.3	
Vanadium	7440-62-2	E456/BU	5.0	µg/sampl e	<5.0	<5.0	<5.0	<5.0	<5.0	
Zinc	7440-66-6	E456/BU	4.5	µg/sampl e	14.2	13.5	18.4	10.9	67.5	

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.



Analytical Results

Sub-Matrix: Filter

(Matrix: Air)

					Client sample ID	NORTHWEST-TSP-564	NORTHWEST-TSP-565	NORTHWEST-TSP-566	NORTHWEST-TSP-567	NORTHWEST-TSP-568
Client sampling date / time						03-Sep-2024 00:00	09-Sep-2024 00:00	15-Sep-2024 00:00	21-Sep-2024 00:00	27-Sep-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-011	BU2400732-012	BU2400732-013	BU2400732-014	BU2400732-015	
					Result	Result	Result	Result	Result	
Particulates										
Particulate matter, filter	----	E896-T/BU	2300	µg/sampl e	38500	39400	33600	20800	36900	
Metals										
Arsenic	7440-38-2	E456/BU	3.0	µg/sampl e	<3.0	<3.0	<3.0	<3.0	<3.0	
Cadmium	7440-43-9	E456/BU	0.027	µg/sampl e	0.072	0.063	0.125	0.063	0.116	
Chromium	7440-47-3	E456/BU	3.4	µg/sampl e	<3.4	<3.4	<3.4	<3.4	<3.4	
Cobalt	7440-48-4	E456/BU	0.030	µg/sampl e	0.241	0.314	0.354	0.171	0.302	
Copper	7440-50-8	E456/BU	1.0	µg/sampl e	180	242	397	330	489	
Iron	7439-89-6	E456/BU	12	µg/sampl e	489	694	515	311	680	
Lead	7439-92-1	E456/BU	0.12	µg/sampl e	1.44	1.37	2.07	1.01	2.89	
Manganese	7439-96-5	E456/BU	0.45	µg/sampl e	24.1	41.7	21.2	12.2	25.8	
Nickel	7440-02-0	E456/BU	0.25	µg/sampl e	1.89	1.29	2.92	1.53	1.56	
Selenium	7782-49-2	E456/BU	1.3	µg/sampl e	<1.3	<1.3	<1.3	<1.3	<1.3	
Vanadium	7440-62-2	E456/BU	5.0	µg/sampl e	<5.0	<5.0	<5.0	<5.0	<5.0	
Zinc	7440-66-6	E456/BU	4.5	µg/sampl e	13.8	11.8	15.8	14.2	55.5	

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.



Analytical Results

Sub-Matrix: Filter
 (Matrix: Air)

Client sample ID					TSP-September Trip Blank	NORTH-PM2.5-564	NORTH-PM2.5-565	NORTH-PM2.5-566	NORTH-PM2.5-567
Client sampling date / time					30-Sep-2024 00:00	03-Sep-2024 00:00	09-Sep-2024 00:00	15-Sep-2024 00:00	21-Sep-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-016	BU2400732-017	BU2400732-018	BU2400732-019	BU2400732-020
					Result	Result	Result	Result	Result
Particulates									
Particulate matter, filter	----	E896-T/BU	2300	µg/sampl e	<2300	----	----	----	----
Particulate, total	----	E904/BU	15	µg/sampl e	----	185	128	131	52
Metals									
Arsenic	7440-38-2	E456/BU	3.0	µg/sampl e	<3.0	----	----	----	----
Cadmium	7440-43-9	E456/BU	0.027	µg/sampl e	<0.027	----	----	----	----
Chromium	7440-47-3	E456/BU	3.4	µg/sampl e	<3.4	----	----	----	----
Cobalt	7440-48-4	E456/BU	0.030	µg/sampl e	<0.030	----	----	----	----
Copper	7440-50-8	E456/BU	1.0	µg/sampl e	3.2	----	----	----	----
Iron	7439-89-6	E456/BU	12	µg/sampl e	18	----	----	----	----
Lead	7439-92-1	E456/BU	0.12	µg/sampl e	<0.12	----	----	----	----
Manganese	7439-96-5	E456/BU	0.45	µg/sampl e	<0.45	----	----	----	----
Nickel	7440-02-0	E456/BU	0.25	µg/sampl e	0.66	----	----	----	----
Selenium	7782-49-2	E456/BU	1.3	µg/sampl e	<1.3	----	----	----	----
Vanadium	7440-62-2	E456/BU	5.0	µg/sampl e	<5.0	----	----	----	----
Zinc	7440-66-6	E456/BU	4.5	µg/sampl e	<4.5	----	----	----	----

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.



Analytical Results

Sub-Matrix: Filter (Matrix: Air)					Client sample ID	NORTH-PM2.5-568	SOUTH-PM2.5-564	SOUTH-PM2.5-565	SOUTH-PM2.5-566	SOUTH-PM2.5-567
Client sampling date / time						27-Sep-2024 00:00	03-Sep-2024 00:00	09-Sep-2024 00:00	15-Sep-2024 00:00	21-Sep-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit		BU2400732-021	BU2400732-022	BU2400732-023	BU2400732-024	BU2400732-025
					Result		Result	Result	Result	Result
Particulates										
Particulate, total	----	E904/BU	15	µg/sample		91	126	32	90	69

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.

Analytical Results

Sub-Matrix: Filter (Matrix: Air)					Client sample ID	SOUTH-PM2.5-568	NORTHWEST-PM2.5-564	NORTHWEST-PM2.5-565	NORTHWEST-PM2.5-566	NORTHWEST-PM2.5-567
Client sampling date / time						27-Sep-2024 00:00	03-Sep-2024 00:00	09-Sep-2024 00:00	15-Sep-2024 00:00	21-Sep-2024 00:00
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit		BU2400732-026	BU2400732-027	BU2400732-028	BU2400732-029	BU2400732-030
					Result		Result	Result	Result	Result
Particulates										
Particulate, total	----	E904/BU	15	µg/sample		33	130	28	30	45

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.

Analytical Results

Sub-Matrix: Filter (Matrix: Air)					Client sample ID	NORTHWEST-PM2.5-568	PM2.5-September Trip Blank	----	----	----
Client sampling date / time						27-Sep-2024 00:00	30-Sep-2024 00:00	----	----	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit		BU2400732-031	BU2400732-032	----	----	----
					Result		Result	----	----	----
Particulates										
Particulate, total	----	E904/BU	15	µg/sample		35	<15	----	----	----

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.



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

					Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dustfall	Dustfall Trip Blank	----
Client sampling date / time						30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-033	BU2400732-034	BU2400732-035	BU2400732-036	----	----
					Result	Result	Result	Result	----	----
Field Tests										
Area sampled, field	----	EF001A/VA	0.010	cm²	55.4	55.4	55.4	55.4	----	----
Sampling time, field	----	EF001B/BU	1	days	29	29	29	29	----	----
Particulates										
Dustfall, fixed insoluble	----	EC885.A/VA	0.10	mg/dm².d ay	0.17	0.42	<0.12	<0.12	----	----
Dustfall, volatile insoluble	----	EC885V.A/VA	0.10	mg/dm².d ay	0.26	0.30	0.18	<0.10	----	----
Dustfall, total insoluble	----	EC882.A/VA	0.10	mg/dm².d ay	0.43	0.72	0.18	<0.12	----	----
Dustfall, fixed soluble	----	EC884.A/VA	0.10	mg/dm².d ay	<0.12	<0.12	<0.12	<0.12	----	----
Dustfall, volatile soluble	----	EC884V.A/VA	0.10	mg/dm².d ay	<0.10	0.14	0.15	<0.10	----	----
Dustfall, total soluble	----	EC881.A/VA	0.10	mg/dm².d ay	<0.12	0.14	0.15	<0.12	----	----
Dustfall, fixed	----	EC883F.A/VA	0.10	mg/dm².d ay	<0.24	0.42	<0.24	<0.24	----	----
Dustfall, volatile	----	EC883V2.A/V A	0.10	mg/dm².d ay	0.26	0.44	0.33	<0.10	----	----
Dustfall, total	----	EC880T.A/VA	0.10	mg/dm².d ay	0.43	0.86	0.33	<0.24	----	----
Dustfall, fixed insoluble	----	E885/VA	1.9	mg	2.8	6.7	<1.9	<1.9	----	----
Dustfall, total insoluble	----	E882/VA	1.9	mg	6.9	11.5	2.9	<1.9	----	----
Dustfall, fixed soluble	----	E884/VA	1.9	mg	<1.9	<1.9	<1.9	<1.9	----	----
Dustfall, total soluble	----	E881/VA	1.9	mg	<1.9	2.3	2.4	<1.9	----	----
Total Metals										
Aluminum, total	7429-90-5	EC447/VA	0.000160	mg/dm².d ay	0.00231	0.00678	0.00175	<0.000187	----	----
Antimony, total	7440-36-0	EC447/VA	0.0000026	mg/dm².d ay	<0.0000031	<0.0000031	<0.0000032	<0.0000031	----	----
Arsenic, total	7440-38-2	EC447/VA	0.0000026	mg/dm².d ay	<0.0000031	0.0000036	<0.0000032	<0.0000031	----	----



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

					Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dustfall	Dustfall Trip Blank	----
Client sampling date / time						30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-033	BU2400732-034	BU2400732-035	BU2400732-036	----	----
					Result	Result	Result	Result		----
Total Metals										
Barium, total	7440-39-3	EC447/VA	0.0000026	mg/dm ² .day	0.0000295	0.0000576	0.0000221	<0.0000031		----
Beryllium, total	7440-41-7	EC447/VA	0.000013	mg/dm ² .day	<0.000016	<0.000016	<0.000016	<0.000016		----
Bismuth, total	7440-69-9	EC447/VA	0.000013	mg/dm ² .day	<0.000016	<0.000016	<0.000016	<0.000016		----
Boron, total	7440-42-8	EC447/VA	0.00026	mg/dm ² .day	<0.00031	<0.00031	<0.00032	<0.00031		----
Cadmium, total	7440-43-9	EC447/VA	0.0000013	mg/dm ² .day	<0.0000013	<0.0000013	<0.0000013	<0.0000013		----
Calcium, total	7440-70-2	EC447/VA	0.00052	mg/dm ² .day	0.00853	0.0160	0.00840	<0.00062		----
Chromium, total	7440-47-3	EC447/VA	0.000013	mg/dm ² .day	<0.000016	<0.000016	<0.000016	<0.000016		----
Cobalt, total	7440-48-4	EC447/VA	0.0000026	mg/dm ² .day	<0.0000031	0.0000048	<0.0000032	<0.0000031		----
Copper, total	7440-50-8	EC447/VA	0.000026	mg/dm ² .day	<0.000031	0.000037	<0.000032	<0.000031		----
Iron, total	7439-89-6	EC447/VA	0.00079	mg/dm ² .day	0.00330	0.00915	0.00174	<0.00093		----
Lead, total	7439-92-1	EC447/VA	0.0000013	mg/dm ² .day	0.0000080	0.0000070	0.0000032	<0.0000016		----
Lithium, total	7439-93-2	EC447/VA	0.00013	mg/dm ² .day	<0.00016	<0.00016	<0.00016	<0.00016		----
Magnesium, total	7439-95-4	EC447/VA	0.00013	mg/dm ² .day	0.00213	0.00596	0.00301	<0.00016		----
Manganese, total	7439-96-5	EC447/VA	0.0000052	mg/dm ² .day	0.000110	0.000306	0.0000871	<0.0000062		----
Mercury, total	7439-97-6	EC516/VA	0.0000013	mg/dm ² .day	<0.0000016	<0.0000016	<0.0000016	<0.0000016		----
Molybdenum, total	7439-98-7	EC447/VA	0.0000013	mg/dm ² .day	<0.0000016	0.0000016	<0.0000016	<0.0000016		----
Nickel, total	7440-02-0	EC447/VA	0.000013	mg/dm ² .day	0.000090	0.000030	<0.000016	<0.000016		----
Phosphorus, total	7723-14-0	EC447/VA	0.0013	mg/dm ² .day	0.0022	0.0033	<0.0016	<0.0016		----
Potassium, total	7440-09-7	EC447/VA	0.0013	mg/dm ² .day	0.0027	0.0075	0.0048	<0.0016		----



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

					Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dustfall	Dustfall Trip Blank	----
Client sampling date / time						30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-033	BU2400732-034	BU2400732-035	BU2400732-036	----	----
					Result	Result	Result	Result		----
Total Metals										
Selenium, total	7782-49-2	EC447/VA	0.000026	mg/dm ² .d ay	<0.000031	<0.000031	<0.000032	<0.000031	----	----
Silicon, total	7440-21-3	EC447/VA	0.0013	mg/dm ² .d ay	0.0037	0.0124	0.0044	<0.0016	----	----
Silver, total	7440-22-4	EC447/VA	0.00000026	mg/dm ² .d ay	0.00000053	<0.00000031	<0.00000032	<0.00000031	----	----
Sodium, total	7440-23-5	EC447/VA	0.0013	mg/dm ² .d ay	<0.0016	0.0040	0.0027	<0.0016	----	----
Strontium, total	7440-24-6	EC447/VA	0.0000026	mg/dm ² .d ay	0.0000212	0.0000400	0.0000215	<0.0000031	----	----
Thallium, total	7440-28-0	EC447/VA	0.0000026	mg/dm ² .d ay	<0.0000031	<0.0000031	<0.0000032	<0.0000031	----	----
Tin, total	7440-31-5	EC447/VA	0.0000026	mg/dm ² .d ay	<0.0000031	<0.0000031	<0.0000032	<0.0000031	----	----
Titanium, total	7440-32-6	EC447/VA	0.00026	mg/dm ² .d ay	<0.00031	<0.00031	<0.00032	<0.00031	----	----
Uranium, total	7440-61-1	EC447/VA	0.0000026	mg/dm ² .d ay	<0.0000026	<0.0000026	<0.0000026	<0.0000026	----	----
Vanadium, total	7440-62-2	EC447/VA	0.000026	mg/dm ² .d ay	<0.000031	<0.000031	<0.000032	<0.000031	----	----
Zinc, total	7440-66-6	EC447/VA	0.000079	mg/dm ² .d ay	0.000131	0.000261	<0.000093	<0.000093	----	----
Aluminum, total	7429-90-5	E447/VA	0.0030	mg	0.0371	0.109	0.0281	<0.0030	----	----
Antimony, total	7440-36-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000051	<0.000050	----	----
Arsenic, total	7440-38-2	E447/VA	0.000050	mg	<0.000050	0.000058	<0.000051	<0.000050	----	----
Barium, total	7440-39-3	E447/VA	0.000050	mg	0.000474	0.000926	0.000355	<0.000050	----	----
Beryllium, total	7440-41-7	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00026	<0.00025	----	----
Bismuth, total	7440-69-9	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00026	<0.00025	----	----
Boron, total	7440-42-8	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0051	<0.0050	----	----
Cadmium, total	7440-43-9	E447/VA	0.000020	mg	<0.000020	<0.000020	<0.000020	<0.000020	----	----
Calcium, total	7440-70-2	E447/VA	0.010	mg	0.137	0.258	0.135	<0.010	----	----



Analytical Results

Sub-Matrix: Dustfall

(Matrix: Air)

					Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dustfall	Dustfall Trip Blank	----
Client sampling date / time						30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-033	BU2400732-034	BU2400732-035	BU2400732-036	----	----
					Result	Result	Result	Result		----
Total Metals										
Chromium, total	7440-47-3	E447/VA	0.00025	mg	<0.00025	<0.00025	<0.00026	<0.00025		----
Cobalt, total	7440-48-4	E447/VA	0.000050	mg	<0.000050	0.000078	<0.000051	<0.000050		----
Copper, total	7440-50-8	E447/VA	0.00050	mg	<0.00050	0.00059	<0.00051	<0.00050		----
Iron, total	7439-89-6	E447/VA	0.015	mg	0.053	0.147	0.028	<0.015		----
Lead, total	7439-92-1	E447/VA	0.000025	mg	0.000128	0.000113	0.000052	<0.000025		----
Lithium, total	7439-93-2	E447/VA	0.0025	mg	<0.0025	<0.0025	<0.0026	<0.0025		----
Magnesium, total	7439-95-4	E447/VA	0.0025	mg	0.0343	0.0958	0.0484	<0.0025		----
Manganese, total	7439-96-5	E447/VA	0.00010	mg	0.00177	0.00492	0.00140	<0.00010		----
Mercury, total	7439-97-6	E516/VA	0.000025	mg	<0.000025	<0.000025	<0.000026	<0.000025		----
Molybdenum, total	7439-98-7	E447/VA	0.000025	mg	<0.000025	0.000026	<0.000026	<0.000025		----
Nickel, total	7440-02-0	E447/VA	0.00025	mg	0.00145	0.00048	<0.00026	<0.00025		----
Phosphorus, total	7723-14-0	E447/VA	0.025	mg	0.036	0.053	<0.026	<0.025		----
Potassium, total	7440-09-7	E447/VA	0.025	mg	0.044	0.120	0.077	<0.025		----
Selenium, total	7782-49-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00051	<0.00050		----
Silicon, total	7440-21-3	E447/VA	0.025	mg	0.060	0.199	0.070	<0.025		----
Silver, total	7440-22-4	E447/VA	0.0000050	mg	0.0000085	<0.0000050	<0.0000051	<0.0000050		----
Sodium, total	7440-23-5	E447/VA	0.025	mg	<0.025	0.065	0.043	<0.025		----
Strontium, total	7440-24-6	E447/VA	0.000050	mg	0.000340	0.000642	0.000346	<0.000050		----
Thallium, total	7440-28-0	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000051	<0.000050		----
Tin, total	7440-31-5	E447/VA	0.000050	mg	<0.000050	<0.000050	<0.000051	<0.000050		----
Titanium, total	7440-32-6	E447/VA	0.0050	mg	<0.0050	<0.0050	<0.0051	<0.0050		----



Analytical Results

Sub-Matrix: Dustfall
(Matrix: Air)

Sub-Matrix: Dustfall (Matrix: Air)					Client sample ID	North-Dustfall	South-Dustfall	Northwest-Dustfall	Dustfall Trip Blank	----
					Client sampling date / time	30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	30-Sep-2024 00:00	----
Analyte	CAS Number	Method/Lab/Accreditation	LOR	Unit	BU2400732-033	BU2400732-034	BU2400732-035	BU2400732-036	----	
					Result	Result	Result	Result	----	
Total Metals										
Uranium, total	7440-61-1	E447/VA	0.0000050	mg	<0.0000050	<0.0000050	<0.0000051	<0.0000050	----	
Vanadium, total	7440-62-2	E447/VA	0.00050	mg	<0.00050	<0.00050	<0.00051	<0.00050	----	
Zinc, total	7440-66-6	E447/VA	0.0015	mg	0.0021	0.0042	<0.0015	<0.0015	----	

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: BU2400732	Page	: 1 of 18
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 10-Oct-2024 12:20
PO	: 4700003553	Issue Date	: 31-Oct-2024 15:19
C-O-C number	: ----		
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 36		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Laboratory Control Sample (LCS) outliers occur
- Method Blank value outliers occur - please see following pages for full details.
- Duplicate outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Metals	QC-1715983-001	----	Cobalt	7440-48-4	E456	0.090 ^B µg/sample	0.03 µg/sample	Blank result exceeds permitted value
Metals	QC-MRG2-1725177 001	----	Cobalt	7440-48-4	E456	0.041 ^B µg/sample	0.03 µg/sample	Blank result exceeds permitted value
Metals	QC-MRG2-1725177 001	----	Copper	7440-50-8	E456	4.4 ^B µg/sample	1 µg/sample	Blank result exceeds permitted value
Metals	QC-1715983-001	----	Iron	7439-89-6	E456	14 ^B µg/sample	12 µg/sample	Blank result exceeds permitted value
Metals	QC-MRG2-1725177 001	----	Iron	7439-89-6	E456	39 ^B µg/sample	12 µg/sample	Blank result exceeds permitted value
Metals	QC-MRG2-1725177 001	----	Lead	7439-92-1	E456	0.16 ^B µg/sample	0.12 µg/sample	Blank result exceeds permitted value
Metals	QC-1715983-001	----	Manganese	7439-96-5	E456	1.86 ^B µg/sample	0.45 µg/sample	Blank result exceeds permitted value
Metals	QC-MRG2-1725177 001	----	Manganese	7439-96-5	E456	1.66 ^B µg/sample	0.45 µg/sample	Blank result exceeds permitted value
Metals	QC-1715983-001	----	Nickel	7440-02-0	E456	0.72 ^B µg/sample	0.25 µg/sample	Blank result exceeds permitted value
Metals	QC-MRG2-1725177 001	----	Nickel	7440-02-0	E456	1.27 ^B µg/sample	0.25 µg/sample	Blank result exceeds permitted value
Total Metals	QC-1714778-001	----	Aluminum, total	7429-90-5	E447	0.0052 ^B mg	0.003 mg	Blank result exceeds permitted value

Result Qualifiers

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.



Matrix: Air

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Metals	Anonymous	Anonymous	Cadmium	7440-43-9	E456	0.058 % DUP-H	Diff <2x LOR	Low Level DUP DQO exceeded (difference > 2 LOR).
Metals	Anonymous	Anonymous	Cobalt	7440-48-4	E456	114 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	Anonymous	Anonymous	Nickel	7440-02-0	E456	97.1 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Total Metals	BU2400732-033	North-Dustfall	Lead, total	7439-92-1	E447	41.5 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Total Metals	BU2400732-033	North-Dustfall	Nickel, total	7440-02-0	E447	0.00113 % DUP-H, J	Diff <2x LOR	Low Level DUP DQO exceeded (difference > 2 LOR).

Result Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.

Matrix Spike (MS) Recoveries								
Metals	Anonymous	Anonymous	Arsenic	7440-38-2	E456	127 %	75.0-125%	Recovery greater than upper data quality objective
Metals	Anonymous	Anonymous	Chromium	7440-47-3	E456	129 %	75.0-125%	Recovery greater than upper data quality objective



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	EF001A	30-Sep-2024	----	----	----		23-Oct-2024	----	24 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) North-Dustfall	EF001A	30-Sep-2024	----	----	----		23-Oct-2024	----	24 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	EF001A	30-Sep-2024	----	----	----		23-Oct-2024	----	24 days	
Field Tests : Dustfall Canister Area (cm2)										
HDPE dustfall canister (isopropanol) South-Dustfall	EF001A	30-Sep-2024	----	----	----		23-Oct-2024	----	24 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	EF001B	30-Sep-2024	----	----	----		11-Oct-2024	----	12 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) North-Dustfall	EF001B	30-Sep-2024	----	----	----		11-Oct-2024	----	12 days	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	EF001B	30-Sep-2024	----	----	----		11-Oct-2024	----	12 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Dustfall Canister Sampling Days										
HDPE dustfall canister (isopropanol) South-Dustfall	EF001B	30-Sep-2024	----	----	----		11-Oct-2024	----	12 days	
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-568	E456	27-Sep-2024	18-Oct-2024	180 days	21 days	✓	21-Oct-2024	180 days	24 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-568	E456	27-Sep-2024	18-Oct-2024	180 days	21 days	✓	21-Oct-2024	180 days	24 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) TSP-September Trip Blank	E456	30-Sep-2024	23-Oct-2024	180 days	23 days	✓	24-Oct-2024	180 days	24 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-568	E456	27-Sep-2024	23-Oct-2024	180 days	26 days	✓	24-Oct-2024	180 days	27 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-567	E456	21-Sep-2024	18-Oct-2024	180 days	27 days	✓	21-Oct-2024	180 days	30 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-567	E456	21-Sep-2024	18-Oct-2024	180 days	27 days	✓	21-Oct-2024	180 days	30 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-567	E456	21-Sep-2024	23-Oct-2024	180 days	32 days	✓	24-Oct-2024	180 days	33 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-566	E456	15-Sep-2024	18-Oct-2024	180 days	33 days	✓	21-Oct-2024	180 days	36 days	✓



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-566	E456	15-Sep-2024	18-Oct-2024	180 days	33 days	✓	21-Oct-2024	180 days	36 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-566	E456	15-Sep-2024	23-Oct-2024	180 days	38 days	✓	24-Oct-2024	180 days	39 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-565	E456	09-Sep-2024	18-Oct-2024	180 days	39 days	✓	21-Oct-2024	180 days	42 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-565	E456	09-Sep-2024	18-Oct-2024	180 days	39 days	✓	21-Oct-2024	180 days	42 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-565	E456	09-Sep-2024	23-Oct-2024	180 days	44 days	✓	24-Oct-2024	180 days	45 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-564	E456	03-Sep-2024	18-Oct-2024	180 days	45 days	✓	21-Oct-2024	180 days	48 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-564	E456	03-Sep-2024	18-Oct-2024	180 days	45 days	✓	21-Oct-2024	180 days	48 days	✓
Metals : Metals on Quartz High-Volume Filter by CRC ICPMS										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-564	E456	03-Sep-2024	23-Oct-2024	180 days	50 days	✓	24-Oct-2024	180 days	51 days	✓
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	E885	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	

Page : 8 of 18
 Work Order : BU2400732
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E885	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E885	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E885	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	E884	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E884	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E884	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E884	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) PM2.5-September Trip Blank	E904	30-Sep-2024	----	----	----		28-Oct-2024	30 days	29 days	✔
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTH-PM2.5-568	E904	27-Sep-2024	----	----	----		28-Oct-2024	30 days	32 days	✖ EHT

Page : 9 of 18
 Work Order : BU2400732
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTHWEST-PM2.5-568	E904	27-Sep-2024	----	----	----		28-Oct-2024	30 days	32 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) SOUTH-PM2.5-568	E904	27-Sep-2024	----	----	----		28-Oct-2024	30 days	32 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTH-PM2.5-567	E904	21-Sep-2024	----	----	----		28-Oct-2024	30 days	38 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTHWEST-PM2.5-567	E904	21-Sep-2024	----	----	----		28-Oct-2024	30 days	38 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) SOUTH-PM2.5-567	E904	21-Sep-2024	----	----	----		28-Oct-2024	30 days	38 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTH-PM2.5-566	E904	15-Sep-2024	----	----	----		28-Oct-2024	30 days	44 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTHWEST-PM2.5-566	E904	15-Sep-2024	----	----	----		28-Oct-2024	30 days	44 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) SOUTH-PM2.5-566	E904	15-Sep-2024	----	----	----		28-Oct-2024	30 days	44 days	✖ EHT
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTH-PM2.5-565	E904	09-Sep-2024	----	----	----		28-Oct-2024	30 days	50 days	✖ EHTR

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 Work Order : BU2400732
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTHWEST-PM2.5-565	E904	09-Sep-2024	----	----	----		28-Oct-2024	30 days	50 days	✖ EHTR
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) SOUTH-PM2.5-565	E904	09-Sep-2024	----	----	----		28-Oct-2024	30 days	50 days	✖ EHTR
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTH-PM2.5-564	E904	03-Sep-2024	----	----	----		28-Oct-2024	30 days	56 days	✖ EHTR
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) NORTHWEST-PM2.5-564	E904	03-Sep-2024	----	----	----		28-Oct-2024	30 days	56 days	✖ EHTR
Particulates : Particulates on 47mm Teflon filter by Gravimetry										
Teflon Filter (47mm) SOUTH-PM2.5-564	E904	03-Sep-2024	----	----	----		28-Oct-2024	30 days	56 days	✖ EHTR
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) TSP-September Trip Blank	E896-T	30-Sep-2024	----	----	----		18-Oct-2024	180 days	18 days	✔
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-568	E896-T	27-Sep-2024	----	----	----		18-Oct-2024	180 days	21 days	✔
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-568	E896-T	27-Sep-2024	----	----	----		18-Oct-2024	180 days	21 days	✔
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-568	E896-T	27-Sep-2024	----	----	----		18-Oct-2024	180 days	21 days	✔

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 Work Order : BU2400732
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-567	E896-T	21-Sep-2024	----	----	----		18-Oct-2024	180 days	27 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-567	E896-T	21-Sep-2024	----	----	----		18-Oct-2024	180 days	27 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-567	E896-T	21-Sep-2024	----	----	----		18-Oct-2024	180 days	27 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-566	E896-T	15-Sep-2024	----	----	----		18-Oct-2024	180 days	33 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-566	E896-T	15-Sep-2024	----	----	----		18-Oct-2024	180 days	33 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-566	E896-T	15-Sep-2024	----	----	----		18-Oct-2024	180 days	33 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-565	E896-T	09-Sep-2024	----	----	----		18-Oct-2024	180 days	39 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-565	E896-T	09-Sep-2024	----	----	----		18-Oct-2024	180 days	39 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-565	E896-T	09-Sep-2024	----	----	----		18-Oct-2024	180 days	39 days	✓

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 Work Order : BU2400732
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTH-TSP-564	E896-T	03-Sep-2024	----	----	----		18-Oct-2024	180 days	45 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) NORTHWEST-TSP-564	E896-T	03-Sep-2024	----	----	----		18-Oct-2024	180 days	45 days	✓
Particulates : Particulates on High Volume Filter by Gravimetry in ug (Trace Level)										
Hivol Quartz Filter (8x10 inches) SOUTH-TSP-564	E896-T	03-Sep-2024	----	----	----		18-Oct-2024	180 days	45 days	✓
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	E882	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E882	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E882	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Total Insoluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E882	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	E881	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E881	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E881	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Particulates : Total Soluble Dustfalls by Gravimetry (mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E881	30-Sep-2024	22-Oct-2024	----	----		22-Oct-2024	----	23 days	
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E516	30-Sep-2024	18-Oct-2024	180 days	18 days	✓	19-Oct-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E516	30-Sep-2024	18-Oct-2024	180 days	18 days	✓	19-Oct-2024	180 days	1 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	E516	30-Sep-2024	22-Oct-2024	180 days	23 days	✓	25-Oct-2024	180 days	3 days	✓
Total Metals : Total Mercury by CVAAS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Northwest-Dustfall	E516	30-Sep-2024	22-Oct-2024	180 days	23 days	✓	25-Oct-2024	180 days	3 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) North-Dustfall	E447	30-Sep-2024	21-Oct-2024	180 days	22 days	✓	24-Oct-2024	180 days	25 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) South-Dustfall	E447	30-Sep-2024	21-Oct-2024	180 days	22 days	✓	24-Oct-2024	180 days	25 days	✓
Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol) Dustfall Trip Blank	E447	30-Sep-2024	23-Oct-2024	180 days	24 days	✓	24-Oct-2024	180 days	25 days	✓



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method			Method	Sampling Date	Extraction / Preparation			Analysis				
Container / Client Sample ID(s)	Preparation Date	Holding Times			Eval	Analysis Date	Holding Times		Eval			
		Rec					Actual	Rec		Actual		
		Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)										
HDPE dustfall canister (isopropanol)			E447	30-Sep-2024	23-Oct-2024	180 days	24 days	✔	24-Oct-2024	180 days	25 days	✔
Northwest-Dustfall												

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1725177	2	35	5.7	5.0	✓
Particulates on 47mm Teflon filter by Gravimetry	E904	1721283	1	16	6.2	5.0	✓
Particulates on High Volume Filter by Gravimetry in ug (Trace Level)	E896-T	1710453	1	16	6.2	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1714780	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1714778	2	10	20.0	5.0	✓
Laboratory Control Samples (LCS)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1723842	1	12	8.3	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1723843	1	12	8.3	5.0	✓
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1725177	2	35	5.7	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1723845	1	12	8.3	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1714780	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1714778	2	10	20.0	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1723844	1	12	8.3	5.0	✓
Method Blanks (MB)							
Fixed Insoluble Dustfall by Gravimetry (mg)	E885	1723842	1	12	8.3	5.0	✓
Fixed Soluble Dustfalls by Gravimetry (mg)	E884	1723843	1	12	8.3	5.0	✓
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1725177	2	35	5.7	5.0	✓
Particulates on 47mm Teflon filter by Gravimetry	E904	1721283	1	16	6.2	5.0	✓
Particulates on High Volume Filter by Gravimetry in ug (Trace Level)	E896-T	1710453	1	16	6.2	5.0	✓
Total Insoluble Dustfalls by Gravimetry (mg)	E882	1723845	1	12	8.3	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1714780	2	10	20.0	5.0	✓
Total Metals by CRC ICPMS (Dustfall, mg)	E447	1714778	2	10	20.0	5.0	✓
Total Soluble Dustfalls by Gravimetry (mg)	E881	1723844	1	12	8.3	5.0	✓
Matrix Spikes (MS)							
Metals on Quartz High-Volume Filter by CRC ICPMS	E456	1725177	2	35	5.7	5.0	✓
Total Mercury by CVAAS (Dustfall, mg)	E516	1714780	2	10	20.0	5.0	✓



Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by CRC ICPMS (Dustfall, mg)	E447 ALS Environmental - Vancouver	Air	EPA 6020B (mod)	This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.
Metals on Quartz High-Volume Filter by CRC ICPMS	E456 ALS Environmental - Burlington	Air	EPA Method IO3.1 (preparation), IO-3.5/EPA Method 6020B (analysis)	Client-supplied hivol filters are leached, using a microwave-assisted process, for metals by CRC ICP-MS. Analytical results are reported on a per filter basis, with optional concentration units when air volumes are supplied.
Total Mercury by CVAAS (Dustfall, mg)	E516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Total Soluble Dustfalls by Gravimetry (mg)	E881 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.
Total Insoluble Dustfalls by Gravimetry (mg)	E882 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.
Fixed Soluble Dustfalls by Gravimetry (mg)	E884 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.
Fixed Insoluble Dustfall by Gravimetry (mg)	E885 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.
Particulates on High Volume Filter by Gravimetry in ug (Trace Level)	E896-T ALS Environmental - Burlington	Air	Method EPA IO-3.1	Gravimetric analysis of particulate air samples collected on hivol filters.
Particulates on 47mm Teflon filter by Gravimetry	E904 ALS Environmental - Burlington	Air	EPA QA Guidance Document 2.12, 40 CFR Part 50	Gravimetric analysis of particulate air samples collected on 47mm Teflon filters. Results are presented in ug (per filter).



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals by ICPMS (Dustfall, mg/dm ² .day)	EC447 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day by field information.
Total Mercury by CVAAS (Dustfall, mg/dm ² .day)	EC516 ALS Environmental - Vancouver	Air	unit conversion	Convert mg/sample to mg/dm ² .day based on field information.
Total Dustfalls by Calculation (mg/dm ² .day)	EC880T.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Total Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC881.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Total Insoluble Dustfalls by Gravimetry (mg/dm ² .day)	EC882.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Fixed Dustfalls by Calculation (mg/dm ² .day)	EC883F.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Volatile Dustfalls by Calculation (mg/dm ² .day)	EC883V2.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.
Fixed Soluble Dustfalls by Gravimetry (mg/dm ² .day)	EC884.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Soluble Dustfalls by Calculation (mg/dm ² .day)	EC884V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.
Fixed Insoluble Dustfall by Gravimetry (mg/dm ² .day)	EC885.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.
Volatile Insoluble Dustfalls by Calculation (mg/dm ² .day)	EC885V.A ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dustfall Canister Area (cm2)	EF001A ALS Environmental - Vancouver	Air	Field data	Measurement of sampling area (cm ²) of the opening of the dustfall canister is recorded.
Dustfall Canister Sampling Days	EF001B ALS Environmental - Burlington	Air	N/A	Field dustfall information recorded on ALS report may affect the validity of results.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals Dustfall Screening and Digestion	EP447 ALS Environmental - Vancouver	Air	BC Laboratory Manual / EPA 200.2 (mod)	This sample procedure uses procedures adapted from "Particulate - Metals - ICP" published in the BC Laboratory Manual, and acid digestion adapted from US EPA 200.2.
Preparation of Metals on Quartz High-Volume Filter by Microwave	EP456 ALS Environmental - Burlington	Air	EPA Method IO3.1 (preparation)	Client-supplied hivol filters are leached for metals by CRC ICP-MS or CVAA, using a microwave-assisted process.
Mercury Dustfall Preparation	EP516 ALS Environmental - Vancouver	Air	EPA 1630	This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).
Solids Dustfall Preparation	EP880 ALS Environmental - Vancouver	Air	BC LAB MANUAL - PARTICULATE	Dustfall sample preparation.

QUALITY CONTROL REPORT

Work Order	: BU2400732	Page	: 1 of 15
Client	: New Gold Inc. (Rainy River)	Laboratory	: ALS Environmental - Burlington
Contact	: Robyn Lloyd	Account Manager	: Claire Kocharakkal
Address	: 24 Marr Rd Barwick ON Canada P0W 1A0	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 807 234 8200	Telephone	: +1 905 331 3111
Project	: BU Air Quality	Date Samples Received	: 10-Oct-2024 12:20
PO	: 4700003553	Date Analysis Commenced	: 11-Oct-2024
C-O-C number	: ----	Issue Date	: 31-Oct-2024 15:18
Sampler	: Client		
Site	:		
Quote number	: Air Quality Standing Offer (BU Use only)		
No. of samples received	: 36		
No. of samples analysed	: 36		

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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

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
Aaron Burton	Login	Burlington Administration, Burlington, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Milithza Silva	Manager - Inorganics	Burlington Inorganics, Burlington, Ontario
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Monica Ko	Lab Assistant	Vancouver Inorganics, Burnaby, British Columbia
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Work Order : BU2400732
Client : New Gold Inc. (Rainy River)
Project : BU Air Quality



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Particulates (QC Lot: 1710453)											
BU2400732-001	NORTH-TSP-564	Particulate matter, filter	----	E896-T	2300	µg/sample	39700	39700	0	Diff <2x LOR	----
Particulates (QC Lot: 1721283)											
BU2400732-017	NORTH-PM2.5-564	Particulate, total	----	E904	15	µg/sample	185	185	0	Diff <2x LOR	----
Metals (QC Lot: 1715983)											
BU2400709-001	Anonymous	Arsenic	7440-38-2	E456	3.0	µg/sample	<3.0	<3.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E456	0.027	µg/sample	0.098	# 0.039	0.058	Diff <2x LOR	DUP-H
		Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	<3.4	0	Diff <2x LOR	----
		Cobalt	7440-48-4	E456	0.030	µg/sample	0.681	0.187	114%	30%	DUP-H
		Copper	7440-50-8	E456	1.0	µg/sample	197	217	9.91%	30%	----
		Iron	7439-89-6	E456	12	µg/sample	202	219	8.17%	30%	----
		Lead	7439-92-1	E456	0.12	µg/sample	0.42	0.37	0.04	Diff <2x LOR	----
		Manganese	7439-96-5	E456	0.45	µg/sample	6.57	7.03	6.85%	30%	----
		Nickel	7440-02-0	E456	0.25	µg/sample	3.52	1.22	97.1%	30%	DUP-H
		Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	<1.3	0	Diff <2x LOR	----
		Vanadium	7440-62-2	E456	5.0	µg/sample	<5.0	<5.0	0	Diff <2x LOR	----
		Zinc	7440-66-6	E456	4.5	µg/sample	9.4	9.9	0.5	Diff <2x LOR	----
Metals (QC Lot: 1725177)											
BU2400782-001	Anonymous	Arsenic	7440-38-2	E456	3.0	µg/sample	<3.0	<3.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E456	0.027	µg/sample	0.068	0.072	0.004	Diff <2x LOR	----
		Chromium	7440-47-3	E456	3.4	µg/sample	3.6	3.5	0.1	Diff <2x LOR	----
		Cobalt	7440-48-4	E456	0.030	µg/sample	0.231	0.207	10.9%	30%	----
		Copper	7440-50-8	E456	1.0	µg/sample	59.6	58.7	1.52%	30%	----
		Iron	7439-89-6	E456	12	µg/sample	728	707	3.02%	30%	----
		Lead	7439-92-1	E456	0.12	µg/sample	1.95	1.94	0.554%	30%	----
		Manganese	7439-96-5	E456	0.45	µg/sample	16.6	16.0	3.48%	30%	----
		Nickel	7440-02-0	E456	0.25	µg/sample	2.00	2.19	8.89%	30%	----
		Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	<1.3	0	Diff <2x LOR	----
		Vanadium	7440-62-2	E456	5.0	µg/sample	<5.0	<5.0	0	Diff <2x LOR	----
		Zinc	7440-66-6	E456	4.5	µg/sample	40.9	40.3	1.34%	30%	----
Total Metals (QC Lot: 1714720)											

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 Work Order : BU2400732
 Client : New Gold Inc. (Rainy River)
 Project : BU Air Quality



Sub-Matrix: Air

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1714720) - continued											
BU2400732-033	North-Dustfall	Aluminum, total	7429-90-5	E447	0.0030	mg	0.0371	0.0407	9.25%	40%	----
		Antimony, total	7440-36-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000050	mg	0.000474	0.000504	6.06%	40%	----
		Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.137	0.141	3.11%	30%	----
		Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	<0.00025	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	0.053	0.049	0.004	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000025	mg	0.000128	0.000194	41.5%	40%	DUP-H
		Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	<0.0025	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0025	mg	0.0343	0.0374	8.72%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00177	0.00187	5.36%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00025	mg	0.00145	# 0.00033	0.00113	Diff <2x LOR	DUP-H,J
		Phosphorus, total	7723-14-0	E447	0.025	mg	0.036	0.041	0.005	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.025	mg	0.044	0.052	0.009	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.025	mg	0.060	0.066	0.006	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000050	mg	0.0000085	<0.0000050	0.0000035	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.025	mg	<0.025	0.027	0.002	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000050	mg	0.000340	0.000358	5.20%	40%	----
		Thallium, total	7440-28-0	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000050	mg	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0050	mg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000050	mg	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00050	mg	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	0.0021	0.0020	0.00010	Diff <2x LOR	----
Total Metals (QC Lot: 1714722)											
BU2400732-033	North-Dustfall	Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	<0.000025	0	Diff <2x LOR	----



Sub-Matrix: Air

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1714778)											
BU2400732-035	Northwest-Dustfall	Aluminum, total	7429-90-5	E447	0.0031	mg	0.0281	0.0288	2.45%	40%	----
		Antimony, total	7440-36-0	E447	0.000051	mg	<0.000051	<0.000051	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E447	0.000051	mg	<0.000051	<0.000051	0	Diff <2x LOR	----
		Barium, total	7440-39-3	E447	0.000051	mg	0.000355	0.000357	0.611%	40%	----
		Beryllium, total	7440-41-7	E447	0.00026	mg	<0.00026	<0.00026	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E447	0.00026	mg	<0.00026	<0.00026	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E447	0.0051	mg	<0.0051	<0.0051	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E447	0.000020	mg	<0.000020	<0.000020	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E447	0.010	mg	0.135	0.127	6.02%	30%	----
		Chromium, total	7440-47-3	E447	0.00026	mg	<0.00026	<0.00026	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E447	0.000051	mg	<0.000051	<0.000051	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E447	0.00051	mg	<0.00051	<0.00051	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E447	0.015	mg	0.028	0.025	0.003	Diff <2x LOR	----
		Lead, total	7439-92-1	E447	0.000026	mg	0.000052	0.000043	0.000009	Diff <2x LOR	----
		Lithium, total	7439-93-2	E447	0.0026	mg	<0.0026	<0.0026	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E447	0.0026	mg	0.0484	0.0465	4.01%	30%	----
		Manganese, total	7439-96-5	E447	0.00010	mg	0.00140	0.00136	3.28%	30%	----
		Molybdenum, total	7439-98-7	E447	0.000026	mg	<0.000026	<0.000026	0	Diff <2x LOR	----
		Nickel, total	7440-02-0	E447	0.00026	mg	<0.00026	<0.00026	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E447	0.026	mg	<0.026	<0.026	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E447	0.026	mg	0.077	0.075	0.002	Diff <2x LOR	----
		Selenium, total	7782-49-2	E447	0.00051	mg	<0.00051	<0.00051	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E447	0.026	mg	0.070	0.068	0.002	Diff <2x LOR	----
		Silver, total	7440-22-4	E447	0.0000051	mg	<0.0000051	<0.0000051	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E447	0.026	mg	0.043	0.041	0.002	Diff <2x LOR	----
		Strontium, total	7440-24-6	E447	0.000051	mg	0.000346	0.000342	1.08%	40%	----
		Thallium, total	7440-28-0	E447	0.000051	mg	<0.000051	<0.000051	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E447	0.000051	mg	<0.000051	<0.000051	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E447	0.0051	mg	<0.0051	<0.0051	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E447	0.0000051	mg	<0.0000051	<0.0000051	0	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E447	0.00051	mg	<0.00051	<0.00051	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	<0.0015	0	Diff <2x LOR	----
Total Metals (QC Lot: 1714780)											
BU2400732-035	Northwest-Dustfall	Mercury, total	7439-97-6	E516	0.000026	mg	<0.000026	<0.000026	0	Diff <2x LOR	----



Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 1710453)						
Particulate matter, filter	----	E896-T	2300	µg/sample	<2300	----
Particulates (QCLot: 1721283)						
Particulate, total	----	E904	15	µg/sample	<15	----
Particulates (QCLot: 1723842)						
Dustfall, fixed insoluble	----	E885	1.9	mg	<1.9	----
Particulates (QCLot: 1723843)						
Dustfall, fixed soluble	----	E884	1.9	mg	<1.9	----
Particulates (QCLot: 1723844)						
Dustfall, total soluble	----	E881	1.9	mg	<1.9	----
Particulates (QCLot: 1723845)						
Dustfall, total insoluble	----	E882	1.9	mg	<1.9	----
Metals (QCLot: 1715983)						
Arsenic	7440-38-2	E456	3	µg/sample	<3.0	----
Cadmium	7440-43-9	E456	0.027	µg/sample	<0.027	----
Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	----
Cobalt	7440-48-4	E456	0.03	µg/sample	# 0.090	B
Copper	7440-50-8	E456	1	µg/sample	<1.0	----
Iron	7439-89-6	E456	12	µg/sample	# 14	B
Lead	7439-92-1	E456	0.12	µg/sample	<0.12	----
Manganese	7439-96-5	E456	0.45	µg/sample	# 1.86	B
Nickel	7440-02-0	E456	0.25	µg/sample	# 0.72	B
Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	----
Vanadium	7440-62-2	E456	5	µg/sample	<5.0	----
Zinc	7440-66-6	E456	4.5	µg/sample	<4.5	----
Metals (QCLot: 1725177)						
Arsenic	7440-38-2	E456	3	µg/sample	<3.0	----
Cadmium	7440-43-9	E456	0.027	µg/sample	<0.027	----
Chromium	7440-47-3	E456	3.4	µg/sample	<3.4	----
Cobalt	7440-48-4	E456	0.03	µg/sample	# 0.041	B
Copper	7440-50-8	E456	1	µg/sample	# 4.4	B
Iron	7439-89-6	E456	12	µg/sample	# 39	B
Lead	7439-92-1	E456	0.12	µg/sample	# 0.16	B



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 1725177) - continued						
Manganese	7439-96-5	E456	0.45	µg/sample	# 1.66	B
Nickel	7440-02-0	E456	0.25	µg/sample	# 1.27	B
Selenium	7782-49-2	E456	1.3	µg/sample	<1.3	----
Vanadium	7440-62-2	E456	5	µg/sample	<5.0	----
Zinc	7440-66-6	E456	4.5	µg/sample	<4.5	----
Total Metals (QCLot: 1714720)						
Aluminum, total	7429-90-5	E447	0.003	mg	<0.0030	----
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1714720) - continued						
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1714722)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----
Total Metals (QCLot: 1714778)						
Aluminum, total	7429-90-5	E447	0.003	mg	# 0.0052	B
Antimony, total	7440-36-0	E447	0.00005	mg	<0.000050	----
Arsenic, total	7440-38-2	E447	0.00005	mg	<0.000050	----
Barium, total	7440-39-3	E447	0.00005	mg	<0.000050	----
Beryllium, total	7440-41-7	E447	0.00025	mg	<0.00025	----
Bismuth, total	7440-69-9	E447	0.00025	mg	<0.00025	----
Boron, total	7440-42-8	E447	0.005	mg	<0.0050	----
Cadmium, total	7440-43-9	E447	0.00002	mg	<0.000020	----
Calcium, total	7440-70-2	E447	0.01	mg	<0.010	----
Chromium, total	7440-47-3	E447	0.00025	mg	<0.00025	----
Cobalt, total	7440-48-4	E447	0.00005	mg	<0.000050	----
Copper, total	7440-50-8	E447	0.0005	mg	<0.00050	----
Iron, total	7439-89-6	E447	0.015	mg	<0.015	----
Lead, total	7439-92-1	E447	0.000025	mg	<0.000025	----
Lithium, total	7439-93-2	E447	0.0025	mg	<0.0025	----
Magnesium, total	7439-95-4	E447	0.0025	mg	<0.0025	----
Manganese, total	7439-96-5	E447	0.0001	mg	<0.00010	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	<0.000025	----
Nickel, total	7440-02-0	E447	0.00025	mg	<0.00025	----
Phosphorus, total	7723-14-0	E447	0.025	mg	<0.025	----
Potassium, total	7440-09-7	E447	0.025	mg	<0.025	----
Selenium, total	7782-49-2	E447	0.0005	mg	<0.00050	----
Silicon, total	7440-21-3	E447	0.025	mg	<0.025	----
Silver, total	7440-22-4	E447	0.000005	mg	<0.0000050	----
Sodium, total	7440-23-5	E447	0.025	mg	<0.025	----
Strontium, total	7440-24-6	E447	0.00005	mg	<0.000050	----
Thallium, total	7440-28-0	E447	0.00005	mg	<0.000050	----
Tin, total	7440-31-5	E447	0.00005	mg	<0.000050	----
Titanium, total	7440-32-6	E447	0.005	mg	<0.0050	----



Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1714778) - continued						
Uranium, total	7440-61-1	E447	0.000005	mg	<0.0000050	----
Vanadium, total	7440-62-2	E447	0.0005	mg	<0.00050	----
Zinc, total	7440-66-6	E447	0.0015	mg	<0.0015	----
Total Metals (QCLot: 1714780)						
Mercury, total	7439-97-6	E516	0.000025	mg	<0.000025	----

Qualifiers

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Particulates (QCLot: 1723842)									
Dustfall, fixed insoluble	----	E885	1.9	mg	30 mg	97.5	85.0	115	----
Particulates (QCLot: 1723843)									
Dustfall, fixed soluble	----	E884	1.9	mg	119 mg	105	85.0	115	----
Particulates (QCLot: 1723844)									
Dustfall, total soluble	----	E881	1.9	mg	200 mg	101	85.0	115	----
Particulates (QCLot: 1723845)									
Dustfall, total insoluble	----	E882	1.9	mg	30 mg	97.0	85.0	115	----
Metals (QCLot: 1715983)									
Arsenic	7440-38-2	E456	3	µg/sample	45 µg/sample	102	70.0	130	----
Cadmium	7440-43-9	E456	0.027	µg/sample	4.5 µg/sample	98.3	70.0	130	----
Chromium	7440-47-3	E456	3.4	µg/sample	11.2 µg/sample	96.2	70.0	130	----
Cobalt	7440-48-4	E456	0.03	µg/sample	11.2 µg/sample	94.2	70.0	130	----
Copper	7440-50-8	E456	1	µg/sample	11.2 µg/sample	108	70.0	130	----
Iron	7439-89-6	E456	12	µg/sample	45 µg/sample	98.2	70.0	130	----
Lead	7439-92-1	E456	0.12	µg/sample	22.5 µg/sample	95.6	70.0	130	----
Manganese	7439-96-5	E456	0.45	µg/sample	11.2 µg/sample	95.6	70.0	130	----
Nickel	7440-02-0	E456	0.25	µg/sample	22.5 µg/sample	94.2	70.0	130	----
Selenium	7782-49-2	E456	1.3	µg/sample	45 µg/sample	101	70.0	130	----
Vanadium	7440-62-2	E456	5	µg/sample	22.5 µg/sample	97.1	70.0	130	----
Zinc	7440-66-6	E456	4.5	µg/sample	22.5 µg/sample	97.7	70.0	130	----
Metals (QCLot: 1725177)									
Arsenic	7440-38-2	E456	3	µg/sample	45 µg/sample	102	70.0	130	----
Cadmium	7440-43-9	E456	0.027	µg/sample	4.5 µg/sample	93.1	70.0	130	----
Chromium	7440-47-3	E456	3.4	µg/sample	11.2 µg/sample	95.9	70.0	130	----
Cobalt	7440-48-4	E456	0.03	µg/sample	11.2 µg/sample	94.8	70.0	130	----
Copper	7440-50-8	E456	1	µg/sample	11.2 µg/sample	112	70.0	130	----
Iron	7439-89-6	E456	12	µg/sample	45 µg/sample	97.6	70.0	130	----
Lead	7439-92-1	E456	0.12	µg/sample	22.5 µg/sample	91.9	70.0	130	----
Manganese	7439-96-5	E456	0.45	µg/sample	11.2 µg/sample	95.5	70.0	130	----
Nickel	7440-02-0	E456	0.25	µg/sample	22.5 µg/sample	93.8	70.0	130	----
Selenium	7782-49-2	E456	1.3	µg/sample	45 µg/sample	99.9	70.0	130	----



Sub-Matrix: Air					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 1725177) - continued									
Vanadium	7440-62-2	E456	5	µg/sample	22.5 µg/sample	96.9	70.0	130	----
Zinc	7440-66-6	E456	4.5	µg/sample	22.5 µg/sample	101	70.0	130	----
Total Metals (QCLot: 1714720)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	106	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	110	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	108	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	105	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	102	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	101	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	96.6	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	104	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	103	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	106	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	104	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	106	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	107	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	106	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	100	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	99.7	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	106	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	107	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	103	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	117	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	108	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	105	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	111	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	102	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	107	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	106	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	87.2	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	104	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	104	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	106	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	105	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	107	80.0	120	----



Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1714722)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	75.4	70.0	130	----
Total Metals (QCLot: 1714778)									
Aluminum, total	7429-90-5	E447	0.003	mg	1 mg	105	80.0	120	----
Antimony, total	7440-36-0	E447	0.00005	mg	0.5 mg	106	80.0	120	----
Arsenic, total	7440-38-2	E447	0.00005	mg	0.5 mg	105	80.0	120	----
Barium, total	7440-39-3	E447	0.00005	mg	0.125 mg	103	80.0	120	----
Beryllium, total	7440-41-7	E447	0.00025	mg	0.05 mg	106	80.0	120	----
Bismuth, total	7440-69-9	E447	0.00025	mg	0.5 mg	98.1	80.0	120	----
Boron, total	7440-42-8	E447	0.005	mg	0.5 mg	106	80.0	120	----
Cadmium, total	7440-43-9	E447	0.00002	mg	0.05 mg	100	80.0	120	----
Calcium, total	7440-70-2	E447	0.01	mg	25 mg	104	80.0	120	----
Chromium, total	7440-47-3	E447	0.00025	mg	0.125 mg	99.7	80.0	120	----
Cobalt, total	7440-48-4	E447	0.00005	mg	0.125 mg	101	80.0	120	----
Copper, total	7440-50-8	E447	0.0005	mg	0.125 mg	102	80.0	120	----
Iron, total	7439-89-6	E447	0.015	mg	0.5 mg	95.9	80.0	120	----
Lead, total	7439-92-1	E447	0.000025	mg	0.25 mg	105	80.0	120	----
Lithium, total	7439-93-2	E447	0.0025	mg	0.125 mg	105	80.0	120	----
Magnesium, total	7439-95-4	E447	0.0025	mg	25 mg	102	80.0	120	----
Manganese, total	7439-96-5	E447	0.0001	mg	0.125 mg	101	80.0	120	----
Molybdenum, total	7439-98-7	E447	0.000025	mg	0.125 mg	101	80.0	120	----
Nickel, total	7440-02-0	E447	0.00025	mg	0.25 mg	102	80.0	120	----
Phosphorus, total	7723-14-0	E447	0.025	mg	5 mg	98.3	80.0	120	----
Potassium, total	7440-09-7	E447	0.025	mg	25 mg	101	80.0	120	----
Selenium, total	7782-49-2	E447	0.0005	mg	0.5 mg	101	80.0	120	----
Silicon, total	7440-21-3	E447	0.025	mg	5 mg	106	80.0	120	----
Silver, total	7440-22-4	E447	0.000005	mg	0.05 mg	95.8	80.0	120	----
Sodium, total	7440-23-5	E447	0.025	mg	25 mg	105	80.0	120	----
Strontium, total	7440-24-6	E447	0.00005	mg	0.125 mg	101	80.0	120	----
Thallium, total	7440-28-0	E447	0.00005	mg	0.5 mg	100	80.0	120	----
Tin, total	7440-31-5	E447	0.00005	mg	0.25 mg	102	80.0	120	----
Titanium, total	7440-32-6	E447	0.005	mg	0.125 mg	96.6	80.0	120	----
Uranium, total	7440-61-1	E447	0.000005	mg	0.002 mg	102	80.0	120	----
Vanadium, total	7440-62-2	E447	0.0005	mg	0.25 mg	103	80.0	120	----
Zinc, total	7440-66-6	E447	0.0015	mg	0.25 mg	105	80.0	120	----
Total Metals (QCLot: 1714780)									
Mercury, total	7439-97-6	E516	0.000025	mg	0.001 mg	95.3	70.0	130	----



Sub-Matrix: Air

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air

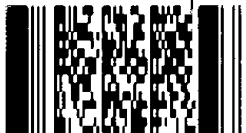
Sub-Matrix: Air					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Metals (QCLot: 1715983)										
BU2400709-001	Anonymous	Arsenic	7440-38-2	E456	43.8 µg/sample	45 µg/sample	97.2	75.0	125	----
		Cadmium	7440-43-9	E456	4.16 µg/sample	4.5 µg/sample	92.4	75.0	125	----
		Chromium	7440-47-3	E456	10.1 µg/sample	11.2 µg/sample	89.9	75.0	125	----
		Cobalt	7440-48-4	E456	10.1 µg/sample	11.2 µg/sample	89.4	75.0	125	----
		Copper	7440-50-8	E456	ND µg/sample	----	ND	75.0	125	----
		Iron	7439-89-6	E456	ND µg/sample	----	ND	75.0	125	----
		Lead	7439-92-1	E456	20.7 µg/sample	22.5 µg/sample	91.9	75.0	125	----
		Manganese	7439-96-5	E456	10.6 µg/sample	11.2 µg/sample	94.0	75.0	125	----
		Nickel	7440-02-0	E456	18.8 µg/sample	22.5 µg/sample	83.6	75.0	125	----
		Selenium	7782-49-2	E456	45.1 µg/sample	45 µg/sample	100	75.0	125	----
		Vanadium	7440-62-2	E456	20.6 µg/sample	22.5 µg/sample	91.6	75.0	125	----
		Zinc	7440-66-6	E456	21.9 µg/sample	22.5 µg/sample	97.3	75.0	125	----
Metals (QCLot: 1725177)										
BU2400782-001	Anonymous	Arsenic	7440-38-2	E456	57.3 µg/sample	45 µg/sample	127	75.0	125	----
		Cadmium	7440-43-9	E456	5.43 µg/sample	4.5 µg/sample	121	75.0	125	----
		Chromium	7440-47-3	E456	14.5 µg/sample	11.2 µg/sample	129	75.0	125	----
		Cobalt	7440-48-4	E456	13.4 µg/sample	11.2 µg/sample	119	75.0	125	----
		Copper	7440-50-8	E456	ND µg/sample	----	ND	75.0	125	----
		Iron	7439-89-6	E456	ND µg/sample	----	ND	75.0	125	----
		Lead	7439-92-1	E456	28.0 µg/sample	22.5 µg/sample	124	75.0	125	----
		Manganese	7439-96-5	E456	ND µg/sample	----	ND	75.0	125	----
		Nickel	7440-02-0	E456	27.0 µg/sample	22.5 µg/sample	120	75.0	125	----
		Selenium	7782-49-2	E456	55.2 µg/sample	45 µg/sample	123	75.0	125	----
		Vanadium	7440-62-2	E456	27.5 µg/sample	22.5 µg/sample	122	75.0	125	----
		Zinc	7440-66-6	E456	ND µg/sample	----	ND	75.0	125	----
Total Metals (QCLot: 1714722)										
BU2400732-034	South-Dustfall	Mercury, total	7439-97-6	E516	0.000210 mg	0 mg	91.2	70.0	130	----
Total Metals (QCLot: 1714780)										
BU2400732-036	Dustfall Trip Blank	Mercury, total	7439-97-6	E516	0.000283 mg	0 mg	85.6	70.0	130	----





Report To				Report Format / Distribution				Service Requested			
Company: New Gold Inc.				Email 1: rebyn.loyd@newgold.com				Regular Service			
Contact: Robyn Lloyd				Email 2:				Rush Service (with prior consultation) - surcharge applies			
Address: 1361 Roan Road, Chapple, ON P0W 1A0				Client / Project Information				Other - Please contact ALS			
Phone: (807) 234-8200 ext. 5029 Fax:				Job #: Air Quality				Analyte Request			
Invoice To: Same as Report				Location:				TSP and Metals			
Company:				PO: 4500069107				Pm 2.5			
Contact:				Sampled by:				Dustfall incl. volatile			
Address:				ALS Contact:							
Phone:											
Lab Work Order #											
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hr:mm)	Sample Type	TSP and Metals	Pm 2.5	Dustfall incl. volatile	Heavy Metals	Trace Metals	Other	Number of Containers
	NORTH-TSP-564	3-Sep-2024	12:00	Air	X						
	SOUTH-TSP-564	3-Sep-2024	12:00	Air	X						
	NORTHWEST-TSP-564	3-Sep-2024	12:00	Air	X						
	NORTH-TSP-565	9-Sep-2024	12:00	Air	X						
	SOUTH-TSP-565	9-Sep-2024	12:00	Air	X						
	NORTHWEST-TSP-565	9-Sep-2024	12:00	Air	X						
	NORTH-TSP-566	15-Sep-2024	12:00	Air	X						
	SOUTH-TSP-566	15-Sep-2024	12:00	Air	X						
	NORTHWEST-TSP-566	15-Sep-2024	12:00	Air	X						
	NORTH-TSP-567	21-Sep-2024	12:00	Air	X						
	SOUTH-TSP-567	21-Sep-2024	12:00	Air	X						
	NORTHWEST-TSP-567	21-Sep-2024	12:00	Air	X						
	NORTH-TSP-568	27-Sep-2024	12:00	Air	X						
	SOUTH-TSP-568	27-Sep-2024	12:00	Air	X						
	NORTHWEST-TSP-568	27-Sep-2024	12:00	Air	X						
	TRIP BLANK - September TSP	30-Sep-2024	12:00	Air	X						
	NORTH-PM2.5-564	3-Sep-2024	12:00	Air	X						
	SOUTH-PM2.5-564	3-Sep-2024	12:00	Air	X						
	NORTHWEST-PM2.5-564	3-Sep-2024	12:00	Air	X						
	NORTH-PM2.5-565	9-Sep-2024	12:00	Air	X						
	SOUTH-PM2.5-565	9-Sep-2024	12:00	Air	X						
	NORTHWEST-PM2.5-565	9-Sep-2024	12:00	Air	X						
	NORTH-PM2.5-566	15-Sep-2024	12:00	Air	X						
	SOUTH-PM2.5-566	15-Sep-2024	12:00	Air	X						
	NORTHWEST-PM2.5-566	15-Sep-2024	12:00	Air	X						
	NORTH-PM2.5-567	21-Sep-2024	12:00	Air	X						
	SOUTH-PM2.5-567	21-Sep-2024	12:00	Air	X						
	NORTHWEST-PM2.5-567	21-Sep-2024	12:00	Air	X						
	NORTH-PM2.5-568	27-Sep-2024	12:00	Air	X						
	SOUTH-PM2.5-568	27-Sep-2024	12:00	Air	X						
	NORTHWEST-PM2.5-568	27-Sep-2024	12:00	Air	X						
	TRIP BLANK - September- PM2.5	30-Sep-2024	12:00	Air	X						
	Dustfall - Northwest	30-Sep-2024	12:00	Air		X					
	Dustfall - Trip Blank - September	30-Sep-2024	12:00	Air		X					
	Dustfall - North	30-Sep-2024	12:00	Air		X					
	Dustfall - South	30-Sep-2024	12:00	Air		X					
Special Instructions / Regulations / Hazardous Details											
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS											
Released by:	Date (per company)	Time (per company)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:	
			ARROW BANTON	18-OCT 2024	12:20	18.5 °C				Yes / No ? If Yes add S/N	

Environmental Division
Burlington
Work Order Reference
BU2400732



Telephone : +1 905 331 3111

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : BU2400992

Client : New Gold Inc. (Rainy River)
Contact : Robyn Lloyd
Address : 24 Marr Rd
Barwick, ON Canada P0W 1A0
E-mail : robyn.lloyd@newgold.com
Telephone : 807 234 8200
Facsimile : ----
Project : BU Air Quality
Purchase order number : 4700003553

C-O-C number : ----
Site :
Sampler :

Laboratory : ALS Environmental - Burlington
Contact : Claire Kocharakkal
Address : 1435 Norjohn Court, Unit 1
Burlington, Ontario Canada L7L 0E6
E-mail : claire.kocharakkal@alsglobal.com
Telephone : +1 905 331 3111
Facsimile : +1 905 331 4567
Page : 1 of 8
Quote number : BU2023NGRR1000001 (Air Quality Standing Offer (BU Use only))
QC Level : ALS Canada Standard Quality Control

Dates

Date Samples Received : 06-Nov-2024 11:50
Client Requested Due Date : 28-Nov-2024

Issue Date : 06-Nov-2024
Scheduled Reporting Date : 28-Nov-2024

Delivery Details

Mode of Delivery : Carrier
No. of coolers/boxes : 1
Receipt Detail :

Security Seal : Not Available
Temperature : 17.5
No. of samples received / analyzed : 36 / 36

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances (if any)
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Where possible, ALS will store samples for the following durations, measured from date of sample submission: 30 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.
- **Temperature is recorded in °C unless otherwise noted.**



Sample Container(s)/Preservation Non-Compliances (if any)

All comparisons are made against pretreatment/preservation practices published by CCME, BC ENV, Ontario MOE, Environment Canada, Health Canada, US EPA, APHA Standard Methods, ASTM, or ISO, and comply with provincial requirements for the laboratory location.

- No sample container/preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Matrix: Air

Laboratory sample ID Client sampling date / time Client sample ID

			Air - E456 Metals on Quartz High Volume Filter by ICPMS	Air - E896-T Particulates on Quartz High Volume Filter by	Air - E904 Particulates on 47mm Teflon filter by Gravimetry	Air - S447 Total Metals & Mercury in Dustfall (mg/dm2 day)	Air - S882.A Soluble and Insoluble (Total, Fixed, Volatile)
BU2400992-001	03-Oct-2024 00:00	North-TSP-569	✓	✓			
BU2400992-002	09-Oct-2024 00:00	North-TSP-570	✓	✓			
BU2400992-003	15-Oct-2024 00:00	North-TSP-571	✓	✓			
BU2400992-004	21-Oct-2024 00:00	North-TSP-572	✓	✓			
BU2400992-005	27-Oct-2024 00:00	North-TSP-573	✓	✓			
BU2400992-006	03-Oct-2024 00:00	South-TSP-569	✓	✓			
BU2400992-007	09-Oct-2024 00:00	South-TSP-570	✓	✓			
BU2400992-008	15-Oct-2024 00:00	South-TSP-571	✓	✓			
BU2400992-009	21-Oct-2024 00:00	South-TSP-572	✓	✓			
BU2400992-010	27-Oct-2024 00:00	South-TSP-573	✓	✓			
BU2400992-011	03-Oct-2024 00:00	Northwest-TSP-569	✓	✓			
BU2400992-012	09-Oct-2024 00:00	Northwest-TSP-570	✓	✓			
BU2400992-013	15-Oct-2024 00:00	Northwest-TSP-571	✓	✓			
BU2400992-014	21-Oct-2024 00:00	Northwest-TSP-572	✓	✓			



			Air - E456 Metals on Quartz High Volume Filter by ICMS	Air - E896-T Particulates on Quartz High Volume Filter by	Air - E904 Particulates on 47mm Teflon filter by Gravimetry	Air - S447 Total Metals & Mercury in Dustfall (mg/dm2.day)	Air - S882-A Soluble and Insoluble (Total, Fixed, Volatile)
BU2400992-015	27-Oct-2024 00:00	Northwest-TSP-573	✓	✓			
BU2400992-016	31-Oct-2024 00:00	TSP-October Trip Blank	✓	✓			
BU2400992-017	03-Oct-2024 00:00	North-PM2.5-569			✓		
BU2400992-018	09-Oct-2024 00:00	North-PM2.5-570			✓		
BU2400992-019	15-Oct-2024 00:00	North-PM2.5-571			✓		
BU2400992-020	21-Oct-2024 00:00	North-PM2.5-572			✓		
BU2400992-021	27-Oct-2024 00:00	North-PM2.5-573			✓		
BU2400992-022	03-Oct-2024 00:00	South-PM2.5-569			✓		
BU2400992-023	09-Oct-2024 00:00	South-PM2.5-570			✓		
BU2400992-024	15-Oct-2024 00:00	South-PM2.5-571			✓		
BU2400992-025	21-Oct-2024 00:00	South-PM2.5-572			✓		
BU2400992-026	27-Oct-2024 00:00	South-PM2.5-573			✓		
BU2400992-027	03-Oct-2024 00:00	Northwest-PM2.5-569			✓		
BU2400992-028	09-Oct-2024 00:00	Northwest-PM2.5-570			✓		
BU2400992-029	15-Oct-2024 00:00	Northwest-PM2.5-571			✓		
BU2400992-030	21-Oct-2024 00:00	Northwest-PM2.5-572			✓		
BU2400992-031	27-Oct-2024 00:00	Northwest-PM2.5-573			✓		
BU2400992-032	31-Oct-2024 00:00	PM2.5-October Trip Blank			✓		
BU2400992-033	31-Oct-2024 00:00	Dustfall-North				✓	✓
BU2400992-034	31-Oct-2024 00:00	Dustfall-South				✓	✓
BU2400992-035	31-Oct-2024 00:00	Dustfall-Northwest				✓	✓
BU2400992-036	31-Oct-2024 00:00	Dustfall-Trip Blank				✓	✓



Proactive Holding Time Report

The following sample(s) were received with less than half the recommended holding time remaining for the indicated tests. ALS cannot guarantee analysis for these tests within holding times.

<i>Client Sample ID</i>	<i>Test Method</i>	<i>Recommended Holding Time</i>
North-PM2.5-570	E904	30 days
South-PM2.5-570	E904	30 days
Northwest-PM2.5-570	E904	30 days

The following samples were received beyond the recommended holding times for the indicated tests.

<i>Client Sample ID</i>	<i>Test Method</i>	<i>Recommended Holding Time</i>
North-PM2.5-569	E904	30 days
South-PM2.5-569	E904	30 days
Northwest-PM2.5-569	E904	30 days



Requested Deliverables

Garnet Cornell

ALS Excel Report (ALS_MTABXL_CAN)	Email	Garnet.Cornell@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	Garnet.Cornell@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	Garnet.Cornell@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUiS_CAN)	Email	Garnet.Cornell@newgold.com
Quality Control (QC (CAN))	Email	Garnet.Cornell@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	Garnet.Cornell@newgold.com
Tax Invoice (INVOICE (CAN))	Email	Garnet.Cornell@newgold.com

Garnet Cornell (Accounts Payable)

Tax Invoice (INVOICE (CAN))	Email	rainyriver.accounts@newgold.com

Lab Results

ALS Excel Report (ALS_MTABXL_CAN)	Email	rainyriver.labresults@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	rainyriver.labresults@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	rainyriver.labresults@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUiS_CAN)	Email	rainyriver.labresults@newgold.com
Quality Control (QC (CAN))	Email	rainyriver.labresults@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	rainyriver.labresults@newgold.com
Tax Invoice (INVOICE (CAN))	Email	rainyriver.labresults@newgold.com

Robyn Lloyd

ALS Excel Report (ALS_MTABXL_CAN)	Email	robyn.lloyd@newgold.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	robyn.lloyd@newgold.com
Interpretive Quality Control Report (QCI (CAN))	Email	robyn.lloyd@newgold.com
New Gold Inc. Rainy River Project EQUiS format. (NEWGOLD_EQUiS_CAN)	Email	robyn.lloyd@newgold.com
Quality Control (QC (CAN))	Email	robyn.lloyd@newgold.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	robyn.lloyd@newgold.com
Tax Invoice (INVOICE (CAN))	Email	robyn.lloyd@newgold.com

Suzy Sabanathan

ALS Excel Report (ALS_MTABXL_CAN)	Email	ssabanathan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	ssabanathan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	ssabanathan@trinityconsultants.com
Quality Control (QC (CAN))	Email	ssabanathan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	ssabanathan@trinityconsultants.com

Issue Date : 06-Nov-2024
Page : 6 of 8
Work Order : BU2400992 Amendment 0
Client : New Gold Inc. (Rainy River)



Varshini Padmanabhan

ALS Excel Report (ALS_MTABXL_CAN)	Email	varshini.padmanabhan@trinityconsultants.com
Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Interpretive Quality Control Report (QCI (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Quality Control (QC (CAN))	Email	varshini.padmanabhan@trinityconsultants.com
Sample Receipt Notification (standard format) (SRN - Short (CAN))	Email	varshini.padmanabhan@trinityconsultants.com



Methods with Laboratory

Sale item	Method	Laboratory	Address	City	Province	Country
Metals on Quartz High Volume Filter by ICPMS (ug/sample)						
	E456	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Particulates on 47mm Teflon filter by Gravimetry (ug/sample)						
	E904	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Particulates on Quartz High Volume Filter by Gravimetry (ug/sample - Trace Level)						
	E896-T	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Soluble and Insoluble (Total, Fixed, Volatile) Dustfalls (mg/dm2.day)						
	E881	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	E882	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	E884	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	E885	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC880T.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC881.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC882.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC883F.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC883V2.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC884.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC884V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC885.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC885V.A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada
Total Metals & Mercury in Dustfall (mg/dm2.day)						
	E447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	E516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC447	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EC516	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EF001A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
	EF001B	Burlington	1435 Norjohn Court, Unit 1	Burlington	Ontario	Canada

Issue Date : 06-Nov-2024
Page : 8 of 8
Work Order : BU2400992 Amendment 0
Client : New Gold Inc. (Rainy River)



[illegible]



Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/06/30-2024/07/30
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/08/14
Report #: R3541245
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C459677

Received: 2024/08/06, 11:00

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
NO2 Passive Analysis	2	2024/08/07	2024/08/13	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/08/07	2024/08/13	PTC SOP-00149	Passive SO2 in ATM

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



Bureau Veritas Job #: C459677
Report Date: 2024/08/14

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CST184	CST185		
Sampling Date		2024/06/30	2024/06/30		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.5	0.2	0.1	B467377
Calculated SO2	ppb	0.1	<0.1	0.1	B468281
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C459677
Report Date: 2024/08/14

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C459677
Report Date: 2024/08/14

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

QUALITY ASSURANCE REPORT

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
B467377	S1T	Spiked Blank	Calculated NO2			100	%	90 - 110
B467377	S1T	Method Blank	Calculated NO2		<0.1		ppb	
B468281	OZ	Spiked Blank	Calculated SO2			98	%	90 - 110
B468281	OZ	Method Blank	Calculated SO2		<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C459677
Report Date: 2024/08/14

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Steven Gloux".

Steven Gloux, Senior Analyst

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Your P.O. #: 4500022601
Your Project #: TC111504.2015.6
Site#: 2024/07/30-2024/09/01
Site Location: NEW GOLD - EMO, ON

Attention: Claire Kocharakkal

ALS Environmental
Burlington ON
1435 Norjohn Court
Unit 1
Burlington, ON
CANADA L7L 0E6

Report Date: 2024/09/18

Report #: R3557831

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C469881

Received: 2024/09/06, 10:00

Sample Matrix: Air
Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
NO2 Passive Analysis	2	2024/09/10	2024/09/11	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	2	2024/09/09	2024/09/17	PTC SOP-00149	Passive SO2 in ATM

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C469881
Report Date: 2024/09/18

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		CUV894	CUV895		
Sampling Date		2024/07/30 12:00	2024/07/30 12:00		
	UNITS	PRP SOUTH	PRP NORTH	RDL	QC Batch
Passive Monitoring					
Calculated NO2	ppb	0.7	0.3	0.1	B511655
Calculated SO2	ppb	0.1	0.1	0.1	B509134
RDL = Reportable Detection Limit					



Bureau Veritas Job #: C469881
Report Date: 2024/09/18

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C469881
Report Date: 2024/09/18

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B509134	OZ	Spiked Blank	Calculated SO2			102	%	90 - 110
B509134	OZ	Method Blank	Calculated SO2		<0.1		ppb	
B511655	SDK	Spiked Blank	Calculated NO2	2024/09/11		99	%	90 - 110
B511655	SDK	Method Blank	Calculated NO2	2024/09/11	<0.1		ppb	
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



Bureau Veritas Job #: C469881
Report Date: 2024/09/18

ALS Environmental
Client Project #: TC111504.2015.6
Site Location: NEW GOLD - EMO, ON
Your P.O. #: 4500022601
Sampler Initials: CC

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Carmen Toker".

Carmen Toker, CT, Manager Air Laboratory Services

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.

6744 - 50 St. Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Page 1 of 1

Invoice To	
Company Name	ALS Environmental
Contact Name	
Address	
City/Postal Code	
Phone/Fax#	

Report To
Name & Email Address
Robyn Lloyd
robyn.lloyd@newgold.com

Service Requested

☐ **RUSH**
(Please contact for TAT)

☒ **REGULAR**

Company Name	ALS
Project Name/LSD	New Gold
	TC111504.2015.6

ANALYTICAL INFORMATION

Analysis Required

[illegible]

Notes/Comments: Client 13251 / Scenario 12539

Sampled By _____ Phone/Email _____ Received By _____ Date/Time 8:02 Project # _____
Date Shipped 2024-09-03 Signature SP02 PO# _____

PTC FCD-00457/4

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$$\text{SO}_2-3 \quad \text{NO}_2-3$$



New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON P0W 1A0

Date Received: 06-AUG-24
Report Date: 28-AUG-24 08:25 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2756939
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Claire Kocharakkal, B.Sc.
Project Manager

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ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-1 NORTH-TSP-554 Sampled By: Client on 05-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	26300		2300	ug		14-AUG-24	R5986117
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Cadmium (Cd)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Cobalt (Co)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Chromium (Cr)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Copper (Cu)	194		4.0	ug	26-AUG-24	27-AUG-24	R5986796
Iron (Fe)	400		20	ug	26-AUG-24	27-AUG-24	R5986796
Manganese (Mn)	12.5		1.0	ug	26-AUG-24	27-AUG-24	R5986796
Nickel (Ni)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Lead (Pb)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Selenium (Se)	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
Vanadium (V)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Zinc (Zn)	16.4		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-2 NORTH-TSP-555 Sampled By: Client on 11-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	43600		2300	ug		14-AUG-24	R5986117
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Cadmium (Cd)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Cobalt (Co)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Chromium (Cr)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Copper (Cu)	186		4.0	ug	26-AUG-24	27-AUG-24	R5986796
Iron (Fe)	381		20	ug	26-AUG-24	27-AUG-24	R5986796
Manganese (Mn)	14.6		1.0	ug	26-AUG-24	27-AUG-24	R5986796
Nickel (Ni)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Lead (Pb)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Selenium (Se)	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
Vanadium (V)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Zinc (Zn)	21.5		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-3 NORTH-TSP-556 Sampled By: Client on 17-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	18300		2300	ug		14-AUG-24	R5986117
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Cadmium (Cd)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Cobalt (Co)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Chromium (Cr)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Copper (Cu)	219		4.0	ug	26-AUG-24	27-AUG-24	R5986796
Iron (Fe)	190		20	ug	26-AUG-24	27-AUG-24	R5986796
Manganese (Mn)	7.4		1.0	ug	26-AUG-24	27-AUG-24	R5986796
Nickel (Ni)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Lead (Pb)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Selenium (Se)	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
Vanadium (V)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Zinc (Zn)	16.7		5.0	ug	26-AUG-24	27-AUG-24	R5986796

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-4 NORTH-TSP-557 Sampled By: Client on 23-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	21800		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	161		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	95		20	ug	26-AUG-24	27-AUG-24	R5986796
	5.9		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	9.4		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-5 NORTH-TSP-558 Sampled By: Client on 29-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	40400		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	171		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	191		20	ug	26-AUG-24	27-AUG-24	R5986796
	7.9		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	27.3		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-6 SOUTH-TSP-554 Sampled By: Client on 05-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	42600		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	158		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	1160		20	ug	26-AUG-24	27-AUG-24	R5986796
	25.5		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	17.1		5.0	ug	26-AUG-24	27-AUG-24	R5986796

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-7 SOUTH-TSP-555 Sampled By: Client on 11-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	120000		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	2.4		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	5.6		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	114		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	3830		20	ug	26-AUG-24	27-AUG-24	R5986796
	81.5		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	4.5		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	6.6		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	25.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-8 SOUTH-TSP-556 Sampled By: Client on 17-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	52100		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	5.1		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	125		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	1460		20	ug	26-AUG-24	27-AUG-24	R5986796
	45.0		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	4.2		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	22.2		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-9 SOUTH-TSP-557 Sampled By: Client on 23-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	24100		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	111		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	329		20	ug	26-AUG-24	27-AUG-24	R5986796
	9.6		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	10.4		5.0	ug	26-AUG-24	27-AUG-24	R5986796

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-10 SOUTH-TSP-558 Sampled By: Client on 29-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	43900		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	91.8		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	232		20	ug	26-AUG-24	27-AUG-24	R5986796
	9.2		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	16.7		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-11 NORTHWEST-TSP-554 Sampled By: Client on 05-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	32100		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	261		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	581		20	ug	26-AUG-24	27-AUG-24	R5986796
	17.3		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	14.7		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-12 NORTHWEST-TSP-555 Sampled By: Client on 11-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	43600		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	288		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	427		20	ug	26-AUG-24	27-AUG-24	R5986796
	16.3		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	21.6		5.0	ug	26-AUG-24	27-AUG-24	R5986796

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-13 NORTHWEST-TSP-556 Sampled By: Client on 17-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	16000		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	309		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	68		20	ug	26-AUG-24	27-AUG-24	R5986796
	3.3		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	7.3		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-14 NORTHWEST-TSP-557 Sampled By: Client on 23-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	19900		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	159		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	114		20	ug	26-AUG-24	27-AUG-24	R5986796
	6.4		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	9.9		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-15 NORTHWEST-TSP-558 Sampled By: Client on 29-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate Metals on High Volume Filter by ICPMS Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Manganese (Mn) Nickel (Ni) Lead (Pb) Selenium (Se) Vanadium (V) Zinc (Zn)	39200		2300	ug		14-AUG-24	R5986117
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	218		4.0	ug	26-AUG-24	27-AUG-24	R5986796
	153		20	ug	26-AUG-24	27-AUG-24	R5986796
	6.7		1.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
	14.4		5.0	ug	26-AUG-24	27-AUG-24	R5986796

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-16 TSP-JULY TRIP BLANK Sampled By: Client on 31-JUL-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		14-AUG-24	R5986117
Metals on High Volume Filter by ICPMS Arsenic (As)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Cadmium (Cd)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Cobalt (Co)	<2.0		2.0	ug	26-AUG-24	27-AUG-24	R5986796
Chromium (Cr)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Copper (Cu)	<4.0		4.0	ug	26-AUG-24	27-AUG-24	R5986796
Iron (Fe)	<20		20	ug	26-AUG-24	27-AUG-24	R5986796
Manganese (Mn)	<1.0		1.0	ug	26-AUG-24	27-AUG-24	R5986796
Nickel (Ni)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Lead (Pb)	<3.0		3.0	ug	26-AUG-24	27-AUG-24	R5986796
Selenium (Se)	<10		10	ug	26-AUG-24	27-AUG-24	R5986796
Vanadium (V)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
Zinc (Zn)	<5.0		5.0	ug	26-AUG-24	27-AUG-24	R5986796
L2756939-17 NORTH-PM2.5-554 Sampled By: Client on 05-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	131		15	ug		26-AUG-24	R5986677
L2756939-18 NORTH-PM2.5-555 Sampled By: Client on 11-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	317		15	ug		26-AUG-24	R5986677
L2756939-19 NORTH-PM2.5-556 Sampled By: Client on 17-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	32		15	ug		26-AUG-24	R5986677
L2756939-20 NORTH-PM2.5-557 Sampled By: Client on 23-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	81		15	ug		26-AUG-24	R5986677
L2756939-21 NORTH-PM2.5-558 Sampled By: Client on 29-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	287		15	ug		26-AUG-24	R5986677
L2756939-22 SOUTH-PM2.5-554 Sampled By: Client on 05-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	129		15	ug		26-AUG-24	R5986677
L2756939-23 SOUTH-PM2.5-555 Sampled By: Client on 11-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2756939-23 SOUTH-PM2.5-555 Sampled By: Client on 11-JUL-24 Matrix: 47mm Filter Total particulate	347		15	ug		26-AUG-24	R5986677
L2756939-24 SOUTH-PM2.5-556 Sampled By: Client on 17-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	79		15	ug		26-AUG-24	R5986677
L2756939-25 SOUTH-PM2.5-557 Sampled By: Client on 23-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	101		15	ug		26-AUG-24	R5986677
L2756939-26 SOUTH-PM2.5-558 Sampled By: Client on 29-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	315		15	ug		26-AUG-24	R5986677
L2756939-27 NORTHWEST-PM2.5-554 Sampled By: Client on 05-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	126		15	ug		26-AUG-24	R5986677
L2756939-28 NORTHWEST-PM2.5-555 Sampled By: Client on 11-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	342		15	ug		26-AUG-24	R5986677
L2756939-29 NORTHWEST-PM2.5-556 Sampled By: Client on 17-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	46		15	ug		26-AUG-24	R5986677
L2756939-30 NORTHWEST-PM2.5-557 Sampled By: Client on 23-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	97		15	ug		26-AUG-24	R5986677
L2756939-31 NORTHWEST-PM2.5-558 Sampled By: Client on 29-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	312		15	ug		26-AUG-24	R5986677
L2756939-32 PM2.5-JULY TRIP BLANK Sampled By: Client on 31-JUL-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		26-AUG-24	R5986677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
MET-IO3.5-MS-BU	Filter	Metals on High Volume Filter by ICPMS	IO3.5
After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.			
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2756939

Report Date: 28-AUG-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU		Filter						
Batch	R5986796							
WG3790312-3	DUP	L2756939-1						
Arsenic (As)		<3.0	<3.0	RPD-NA	ug	N/A	20	27-AUG-24
Cadmium (Cd)		<2.0	<2.0	RPD-NA	ug	N/A	20	27-AUG-24
Cobalt (Co)		<2.0	<2.0	RPD-NA	ug	N/A	20	27-AUG-24
Chromium (Cr)		<5.0	<5.0	RPD-NA	ug	N/A	20	27-AUG-24
Copper (Cu)		194	164		ug	17	20	27-AUG-24
Iron (Fe)		400	327		ug	20	25	27-AUG-24
Manganese (Mn)		12.5	10.5		ug	18	20	27-AUG-24
Nickel (Ni)		<3.0	<3.0	RPD-NA	ug	N/A	20	27-AUG-24
Lead (Pb)		<3.0	<3.0	RPD-NA	ug	N/A	20	27-AUG-24
Selenium (Se)		<10	<10	RPD-NA	ug	N/A	20	27-AUG-24
Vanadium (V)		<5.0	<5.0	RPD-NA	ug	N/A	20	27-AUG-24
Zinc (Zn)		16.4	12.3	J	ug	4.1	10	27-AUG-24
WG3790312-2	LCS							
Arsenic (As)			102.0		%		80-120	27-AUG-24
Cadmium (Cd)			105.4		%		80-120	27-AUG-24
Cobalt (Co)			104.0		%		80-120	27-AUG-24
Chromium (Cr)			104.0		%		80-120	27-AUG-24
Copper (Cu)			105.0		%		80-120	27-AUG-24
Iron (Fe)			105.8		%		80-120	27-AUG-24
Manganese (Mn)			101.0		%		80-120	27-AUG-24
Nickel (Ni)			103.0		%		80-120	27-AUG-24
Lead (Pb)			110.0		%		80-120	27-AUG-24
Selenium (Se)			105.0		%		80-120	27-AUG-24
Vanadium (V)			103.0		%		80-120	27-AUG-24
Zinc (Zn)			104.5		%		80-120	27-AUG-24
WG3790312-1	MB							
Arsenic (As)			<3.0		ug		3	27-AUG-24
Cadmium (Cd)			<0.027		ug		0.027	27-AUG-24
Cobalt (Co)			<0.030		ug		0.03	27-AUG-24
Chromium (Cr)			<3.4		ug		3.4	27-AUG-24
Copper (Cu)			<1.0		ug		1	27-AUG-24
Iron (Fe)			<12		ug		12	27-AUG-24
Manganese (Mn)			<0.45		ug		0.45	27-AUG-24
Nickel (Ni)			<0.25		ug		0.25	27-AUG-24
Lead (Pb)			<0.12		ug		0.12	27-AUG-24



Quality Control Report

Workorder: L2756939

Report Date: 28-AUG-24

Page 2 of 3

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-IO3.5-MS-BU								
Filter								
Batch R5986796								
WG3790312-1 MB								
Selenium (Se)			<1.3		ug		1.25	27-AUG-24
Vanadium (V)			<5.0		ug		10	27-AUG-24
Zinc (Zn)			<4.5		ug		4.5	27-AUG-24
WG3790312-4 MS								
Arsenic (As)		L2756939-1	103.9		%		75-125	27-AUG-24
Cadmium (Cd)			108.5		%		75-125	27-AUG-24
Cobalt (Co)			104.6		%		75-125	27-AUG-24
Chromium (Cr)			106.4		%		75-125	27-AUG-24
Copper (Cu)			N/A	MS-B	%		-	27-AUG-24
Iron (Fe)			N/A	MS-B	%		-	27-AUG-24
Manganese (Mn)			99.2		%		75-125	27-AUG-24
Nickel (Ni)			104.4		%		75-125	27-AUG-24
Lead (Pb)			107.1		%		75-125	27-AUG-24
Selenium (Se)			105.6		%		75-125	27-AUG-24
Vanadium (V)			103.1		%		75-125	27-AUG-24
Zinc (Zn)			107.8		%		75-125	27-AUG-24
PART-HIVOL-GRAV-BU								
Filter								
Batch R5986117								
WG3790191-3 DUP								
Total particulate		L2756939-1 26300	26300		ug	0.0	5	14-AUG-24
WG3790191-1 MB								
Total particulate			<100		ug		100	14-AUG-24
PART-M212 F-GRAV-BU								
Filter								
Batch R5986677								
WG3790298-3 DUP								
Total particulate		L2756939-17 131	131		ug	0.2	10	26-AUG-24
WG3790298-1 MB								
Total particulate			<15		ug		15	26-AUG-24

Quality Control Report

Workorder: L2756939

Report Date: 28-AUG-24

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

L2756939-COFC



Sample Receipt Confirmation

33 Samples received at ALS in BURLINGTON

Job Reference #: N/A

Project PO #: 4700003553

Legal Site Description: N/A

Quote #: Q77307

Lab Work Order #: L2756939

Estimated Completion Date: 8/28/2024

Date Sampled: 7/5/2024

Date Received: 8/6/2024

Sampled By: Client

Chain of Custody: N/A

Account Manager: Claire Kocharakkal, B.Sc.

Estimated Sample Disposal Date: See Sample Disposal Information section below.

Sample Integrity Observations: No observations were identified for this work order submission.

Report Distribution:

Company Name: New Gold Inc. Rainy River Project

Contact: Robyn Lloyd

Address: 24 Marr Rd

Barwick, ON P0W 1A0

Phone: 807-234-8200

Fax: --

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Garnet.Cornell@newgold.com
rainyriver.labresults@newgold.com
ssabanathan@trinityconsultants.com
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EDD Email: robyn.lloyd@newgold.com
Garnet.Cornell@newgold.com
rainyriver.labresults@newgold.com

Distribution: **Hard Copy:** N **Email:** Y **Fax:** N

EDD: Y

Invoice Distribution:

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Contact: Garnet Cornell

Address: 5967 Highway 11/71, P.O. Box 5

Emo, ON, P0W 1E0

Phone: 807-234-8200

Fax: 807-482-2834

Invoice Email: rainyriver.labresults@newgold.com
rainyriver.accounts@newgold.com
Garnet.Cornell@newgold.com
robyn.lloyd@newgold.com

Project #: N/A

Account #: GOLD100

Distribution: **Hard Copy:** Y **Email:** Y

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2756939-1	NORTH-TSP-554	7/5/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-2	NORTH-TSP-555	7/11/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-3	NORTH-TSP-556	7/17/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-4	NORTH-TSP-557	7/23/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-5	NORTH-TSP-558	7/29/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-6	SOUTH-TSP-554	7/5/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-7	SOUTH-TSP-555	7/11/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-8	SOUTH-TSP-556	7/17/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567

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Sample Receipt Confirmation

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2756939-9	SOUTH-TSP-557	7/23/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-10	SOUTH-TSP-558	7/29/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-11	NORTHWEST-TSP-554	7/5/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-12	NORTHWEST-TSP-555	7/11/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-13	NORTHWEST-TSP-556	7/17/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-14	NORTHWEST-TSP-557	7/23/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-15	NORTHWEST-TSP-558	7/29/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-16	TSP-JULY TRIP BLANK	7/31/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		Hi Vol Filter
L2756939-17	NORTH-PM2.5-554	7/5/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-18	NORTH-PM2.5-555	7/11/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-19	NORTH-PM2.5-556	7/17/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-20	NORTH-PM2.5-557	7/23/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-21	NORTH-PM2.5-558	7/29/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-22	SOUTH-PM2.5-554	7/5/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-23	SOUTH-PM2.5-555	7/11/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-24	SOUTH-PM2.5-556	7/17/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-25	SOUTH-PM2.5-557	7/23/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-26	SOUTH-PM2.5-558	7/29/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-27	NORTHWEST-PM2.5-554	7/5/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-28	NORTHWEST-PM2.5-555	7/11/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-29	NORTHWEST-PM2.5-556	7/17/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-30	NORTHWEST-PM2.5-557	7/23/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-31	NORTHWEST-PM2.5-558	7/29/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-32	PM2.5-JULY TRIP BLANK	7/31/2024 12:00 AM	8/6/2024 5:15 PM	8/28/2024 11:00 PM		47mm Filter
L2756939-33	SUBLET TO BV		8/6/2024 5:15 PM	8/28/2024 11:00 PM		



Sample Receipt Confirmation

Analysis Requested:

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee	Tracking of out-going shipments.
NORTH-TSP-554	X		X	X		X	
NORTH-TSP-555	X		X	X		X	
NORTH-TSP-556	X		X	X		X	
NORTH-TSP-557	X		X	X		X	
NORTH-TSP-558	X		X	X		X	
SOUTH-TSP-554	X		X	X		X	
SOUTH-TSP-555	X		X	X		X	
SOUTH-TSP-556	X		X	X		X	
SOUTH-TSP-557	X		X	X		X	
SOUTH-TSP-558	X		X	X		X	
NORTHWEST-TSP-554	X		X	X		X	
NORTHWEST-TSP-555	X		X	X		X	
NORTHWEST-TSP-556	X		X	X		X	
NORTHWEST-TSP-557	X		X	X		X	
NORTHWEST-TSP-558	X		X	X		X	
TSP-JULY TRIP BLANK	X		X	X		X	
NORTH-PM2.5-554		X			X	X	
NORTH-PM2.5-555		X			X	X	
NORTH-PM2.5-556		X			X	X	



Sample Receipt Confirmation

**Analysis
Requested:**

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee	Tracking of out-going shipments.
NORTH-PM2.5-557		X			X	X	
NORTH-PM2.5-558		X			X	X	
SOUTH-PM2.5-554		X			X	X	
SOUTH-PM2.5-555		X			X	X	
SOUTH-PM2.5-556		X			X	X	
SOUTH-PM2.5-557		X			X	X	
SOUTH-PM2.5-558		X			X	X	
NORTHWEST-PM2.5-554		X			X	X	
NORTHWEST-PM2.5-555		X			X	X	
NORTHWEST-PM2.5-556		X			X	X	
NORTHWEST-PM2.5-557		X			X	X	
NORTHWEST-PM2.5-558		X			X	X	
PM2.5-JULY TRIP BLANK		X			X	X	
SUBLET TO BV						X	X



Sample Receipt Confirmation

Sample Disposal Information:

Where possible, ALS will store samples for the following durations, measured from date of sample submission: 45 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.

For information about ALS accreditations and certifications please contact your Account Manager or visit our webpage at www.alsglobal.com (see Canada downloads).

ALS Group strives to deliver on-time results to our clients at all times. However, there are times when due to capacity issues or other unforeseen circumstances we are unable to meet our expected turnaround times. The information above is related to a recent workorder you have submitted to our laboratory. In the event that you have an inquiry, please refer to the Lab Work Order # L2756939 when calling your Account Manager.

ALS Group appreciates your business. Thank you for the opportunity to work with you.

L2756939-COFC



New Gold Inc. Rainy River Project
ATTN: Robyn Lloyd
24 Marr Rd
Barwick ON POW 1A0

Date Received: 05-SEP-24
Report Date: 27-SEP-24 14:24 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2757298
Project P.O. #: 4700003553
Job Reference:
C of C Numbers:
Legal Site Desc:

Claire Kocharakkal, B.Sc.
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2757298-1 NORTH-TSP-559 Sampled By: Client on 04-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	23200		2300	ug		12-SEP-24	R5987357
L2757298-2 NORTH-TSP-560 Sampled By: Client on 10-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	17400		2300	ug		12-SEP-24	R5987357
L2757298-3 NORTH-TSP-561 Sampled By: Client on 16-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	18800		2300	ug		12-SEP-24	R5987357
L2757298-4 NORTH-TSP-562 Sampled By: Client on 22-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	34100		2300	ug		12-SEP-24	R5987357
L2757298-5 NORTH-TSP-563 Sampled By: Client on 28-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	54600		2300	ug		12-SEP-24	R5987357
L2757298-6 SOUTH-TSP-559 Sampled By: Client on 04-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	27800		2300	ug		12-SEP-24	R5987357
L2757298-7 SOUTH-TSP-560 Sampled By: Client on 10-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	21800		2300	ug		12-SEP-24	R5987357
L2757298-8 SOUTH-TSP-561 Sampled By: Client on 16-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	26700		2300	ug		12-SEP-24	R5987357
L2757298-9 SOUTH-TSP-562 Sampled By: Client on 22-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	32000		2300	ug		12-SEP-24	R5987357
L2757298-10 SOUTH-TSP-563 Sampled By: Client on 28-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	36400		2300	ug		12-SEP-24	R5987357

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2757298-11 NORTHWEST-TSP-559 Sampled By: Client on 04-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	29100		2300	ug		12-SEP-24	R5987357
L2757298-12 NORTHWEST-TSP-560 Sampled By: Client on 10-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	14300		2300	ug		12-SEP-24	R5987357
L2757298-13 NORTHWEST-TSP-561 Sampled By: Client on 16-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	26300		2300	ug		12-SEP-24	R5987357
L2757298-14 NORTHWEST-TSP-562 Sampled By: Client on 22-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	43000		2300	ug		12-SEP-24	R5987357
L2757298-15 NORTHWEST-TSP-563 Sampled By: Client on 28-AUG-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	76400		2300	ug		12-SEP-24	R5987357
L2757298-16 TSP-AUGUST TRIP BLANK Sampled By: Client on 01-SEP-24 Matrix: Hi Vol Filter Miscellaneous Parameters Total particulate	<2300		2300	ug		12-SEP-24	R5987357
L2757298-17 NORTH-PM2.5-559 Sampled By: Client on 04-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		24-SEP-24	R5987836
L2757298-18 NORTH-PM2.5-560 Sampled By: Client on 10-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	48		15	ug		24-SEP-24	R5987836
L2757298-19 NORTH-PM2.5-561 Sampled By: Client on 16-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	72		15	ug		24-SEP-24	R5987836
L2757298-20 NORTH-PM2.5-562 Sampled By: Client on 22-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	194		15	ug		24-SEP-24	R5987836

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2757298-21 NORTH-PM2.5-563 Sampled By: Client on 28-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	121		15	ug		24-SEP-24	R5987836
L2757298-22 SOUTH-PM2.5-559 Sampled By: Client on 04-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	135		15	ug		24-SEP-24	R5987836
L2757298-23 SOUTH-PM2.5-560 Sampled By: Client on 10-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	<15		15	ug		24-SEP-24	R5987836
L2757298-24 SOUTH-PM2.5-561 Sampled By: Client on 16-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	82		15	ug		24-SEP-24	R5987836
L2757298-25 SOUTH-PM2.5-562 Sampled By: Client on 22-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	208		15	ug		24-SEP-24	R5987836
L2757298-26 SOUTH-PM2.5-563 Sampled By: Client on 28-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	125		15	ug		24-SEP-24	R5987836
L2757298-27 NORTHWEST-PM2.5-559 Sampled By: Client on 04-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	106		15	ug		24-SEP-24	R5987836
L2757298-28 NORTHWEST-PM2.5-560 Sampled By: Client on 10-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	56		15	ug		24-SEP-24	R5987836
L2757298-29 NORTHWEST-PM2.5-561 Sampled By: Client on 16-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	80		15	ug		24-SEP-24	R5987836
L2757298-30 NORTHWEST-PM2.5-562 Sampled By: Client on 22-AUG-24 Matrix: 47mm Filter Miscellaneous Parameters Total particulate	234		15	ug		24-SEP-24	R5987836

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2757298-31	NORTHWEST-PM2.5-563							
Sampled By: Client on 28-AUG-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		145		15	ug		24-SEP-24	R5987836
L2757298-32	PM2.5-AUGUST TRIP BLANK							
Sampled By: Client on 01-SEP-24								
Matrix: 47mm Filter								
Miscellaneous Parameters								
Total particulate		148		15	ug		24-SEP-24	R5987836

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AIR VOLUME-HIVOL-BU	Filter	Air volume (m3)	USEPA IO3.1
AIR VOLUME-M212 F-BU	Filter	Air volume (m3)	EPA QA Guidance Document 2.12
PART-HIVOL-GRAV-BU	Filter	Particulate on High Volume Filter	USEPA IO3.1
PART-M212 F-GRAV-BU	Filter	PM via Gravimetric Analysis	EPA QA Guidance Document 2.12
The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2757298

Report Date: 27-SEP-24

Page 1 of 2

Client: New Gold Inc. Rainy River Project

24 Marr Rd

Barwick ON P0W 1A0

Contact: Robyn Lloyd

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PART-HIVOL-GRAV-BU								
Filter								
Batch R5987357								
WG3790469-3	DUP	L2757298-1						
Total particulate		23200	23200		ug	0.0	5	12-SEP-24
WG3790469-1	MB							
Total particulate			<100		ug		100	12-SEP-24
PART-M212 F-GRAV-BU								
Filter								
Batch R5987836								
WG3790589-3	DUP	L2757298-17						
Total particulate		<15	<15	RPD-NA	ug	N/A	10	24-SEP-24
WG3790589-1	MB							
Total particulate			<15		ug		15	24-SEP-24

Quality Control Report

Workorder: L2757298

Report Date: 27-SEP-24

Page 2 of 2

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2757298-COFC

[illegible]



Sample Receipt Confirmation

32 Samples received at ALS in BURLINGTON

Job Reference #: N/A

Project PO #: 4700003553

Legal Site Description: N/A

Quote #: Q77307

Lab Work Order #: L2757298

Estimated Completion Date: 9/27/2024

Date Sampled: 8/4/2024

Date Received: 9/5/2024

Sampled By: Client

Chain of Custody: N/A

Account Manager: Claire Kocharakkal, B.Sc.

Estimated Sample Disposal Date: See Sample Disposal Information section below.

Sample Integrity Observations: No observations were identified for this work order submission.

Report Distribution:

Company Name: New Gold Inc. Rainy River Project

Contact: Robyn Lloyd

Address: 24 Marr Rd

Barwick, ON P0W 1A0

Phone: 807-234-8200

Fax: --

Email: robyn.lloyd@newgold.com
Garnet.Cornell@newgold.com
rainyriver.labresults@newgold.com
ssabanathan@trinityconsultants.com
varshini.padmanabhan@trinityconsultants.com

EDD Email: robyn.lloyd@newgold.com
Garnet.Cornell@newgold.com
rainyriver.labresults@newgold.com

Distribution: **Hard Copy:** N **Email:** Y **Fax:** N

EDD: Y

Invoice Distribution:

Acct Name: New Gold Inc. Rainy River Project

Contact: Garnet Cornell

Address: 5967 Highway 11/71, P.O. Box 5

Emo, ON, P0W 1E0

Phone: 807-234-8200

Fax: 807-482-2834

Invoice Email: rainyriver.labresults@newgold.com
rainyriver.accounts@newgold.com
Garnet.Cornell@newgold.com
robyn.lloyd@newgold.com

Project #: N/A

Account #: GOLD100

Distribution: **Hard Copy:** Y **Email:** Y

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2757298-1	NORTH-TSP-559	8/4/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-2	NORTH-TSP-560	8/10/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-3	NORTH-TSP-561	8/16/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-4	NORTH-TSP-562	8/22/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-5	NORTH-TSP-563	8/28/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-6	SOUTH-TSP-559	8/4/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-7	SOUTH-TSP-560	8/10/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-8	SOUTH-TSP-561	8/16/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567

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Environmental

www.alsglobal.com

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Sample Receipt Confirmation

Lab Sample ID	Client Sample ID	Date Sampled	Date Received	Sample Due Date	Priority Flag	Sample Type
L2757298-9	SOUTH-TSP-562	8/22/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-10	SOUTH-TSP-563	8/28/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-11	NORTHWEST-TSP-559	8/4/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-12	NORTHWEST-TSP-560	8/10/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-13	NORTHWEST-TSP-561	8/16/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-14	NORTHWEST-TSP-562	8/22/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-15	NORTHWEST-TSP-563	8/28/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-16	TSP-AUGUST TRIP BLANK	9/1/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		Hi Vol Filter
L2757298-17	NORTH-PM2.5-559	8/4/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-18	NORTH-PM2.5-560	8/10/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-19	NORTH-PM2.5-561	8/16/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-20	NORTH-PM2.5-562	8/22/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-21	NORTH-PM2.5-563	8/28/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-22	SOUTH-PM2.5-559	8/4/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-23	SOUTH-PM2.5-560	8/10/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-24	SOUTH-PM2.5-561	8/16/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-25	SOUTH-PM2.5-562	8/22/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-26	SOUTH-PM2.5-563	8/28/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-27	NORTHWEST-PM2.5-559	8/4/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-28	NORTHWEST-PM2.5-560	8/10/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-29	NORTHWEST-PM2.5-561	8/16/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-30	NORTHWEST-PM2.5-562	8/22/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-31	NORTHWEST-PM2.5-563	8/28/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter
L2757298-32	PM2.5-AUGUST TRIP BLANK	9/1/2024 12:00 AM	9/5/2024 2:00 PM	9/27/2024 11:00 PM		47mm Filter



Sample Receipt Confirmation

Analysis Requested:

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee
NORTH-TSP-559	X		X	X		X
NORTH-TSP-560	X		X	X		X
NORTH-TSP-561	X		X	X		X
NORTH-TSP-562	X		X	X		X
NORTH-TSP-563	X		X	X		X
SOUTH-TSP-559	X		X	X		X
SOUTH-TSP-560	X		X	X		X
SOUTH-TSP-561	X		X	X		X
SOUTH-TSP-562	X		X	X		X
SOUTH-TSP-563	X		X	X		X
NORTHWEST-TSP-559	X		X	X		X
NORTHWEST-TSP-560	X		X	X		X
NORTHWEST-TSP-561	X		X	X		X
NORTHWEST-TSP-562	X		X	X		X
NORTHWEST-TSP-563	X		X	X		X
TSP-AUGUST TRIP BLANK	X		X	X		X
NORTH-PM2.5-559		X			X	X
NORTH-PM2.5-560		X			X	X
NORTH-PM2.5-561		X			X	X



Sample Receipt Confirmation

**Analysis
Requested:**

	Air volume (m3)	Air volume (m3)	Metals on High Volume Filter by ICPMS	Particulate on High Volume Filter	PM via Gravimetric Analysis	Sample Handling and Disposal Fee
NORTH-PM2.5-562		X			X	X
NORTH-PM2.5-563		X			X	X
SOUTH-PM2.5-559		X			X	X
SOUTH-PM2.5-560		X			X	X
SOUTH-PM2.5-561		X			X	X
SOUTH-PM2.5-562		X			X	X
SOUTH-PM2.5-563		X			X	X
NORTHWEST-PM2.5-559		X			X	X
NORTHWEST-PM2.5-560		X			X	X
NORTHWEST-PM2.5-561		X			X	X
NORTHWEST-PM2.5-562		X			X	X
NORTHWEST-PM2.5-563		X			X	X
PM2.5-AUGUST TRIP BLANK		X			X	X



Sample Receipt Confirmation

Sample Disposal Information:

Where possible, ALS will store samples for the following durations, measured from date of sample submission: 45 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.

For information about ALS accreditations and certifications please contact your Account Manager or visit our webpage at www.alsglobal.com (see Canada downloads).

ALS Group strives to deliver on-time results to our clients at all times. However, there are times when due to capacity issues or other unforeseen circumstances we are unable to meet our expected turnaround times. The information above is related to a recent workorder you have submitted to our laboratory. In the event that you have an inquiry, please refer to the Lab Work Order # L2757298 when calling your Account Manager.

ALS Group appreciates your business. Thank you for the opportunity to work with you.



L2757298-COFC

[illegible]

APPENDIX D:

HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS



Site Information

Location: South Station
Sampler: E-5170 MFC

Site ID: 145
Serial No: 367

Date: 17-Jul-24
Tech: RL/EO

Site Conditions

Barometric Pressure (in Hg): 28.54
Temperature (deg F): 70
Average Press. (in Hg): 28.54
Average Temp. (deg F): 70

Corrected Pressure (mm Hg): 731
Temperature (deg K): 294
Corrected Average (mm Hg): 731
Average Temp. (deg K): 294

Calibration Orifice

Make: Tisch
Model: TE-5028
Serial#: 3662

Qstd Slope: 1.68695
Qstd Intercept: -0.04137
Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	3.09	1.053	38.0	37.51	Slope: 24.8630
2	3.85	1.173	40.0	39.49	Intercept: 10.9223
3	4.26	1.232	42.0	41.46	Corr. Coeff: 0.9925
4	4.79	1.305	44.0	43.44	
5	5.35	1.378	46.0	45.41	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std}))(T_{std}/T_a)] - b]$$

$$IC = I[\text{Sqrt}(P_a/P_{std})(T_{std}/T_a)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/T_a)(P_a/760)] - b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

1.307776072

Average Flow Calculation in CFM

46.1775731

Sample Time (Hrs): 24.0

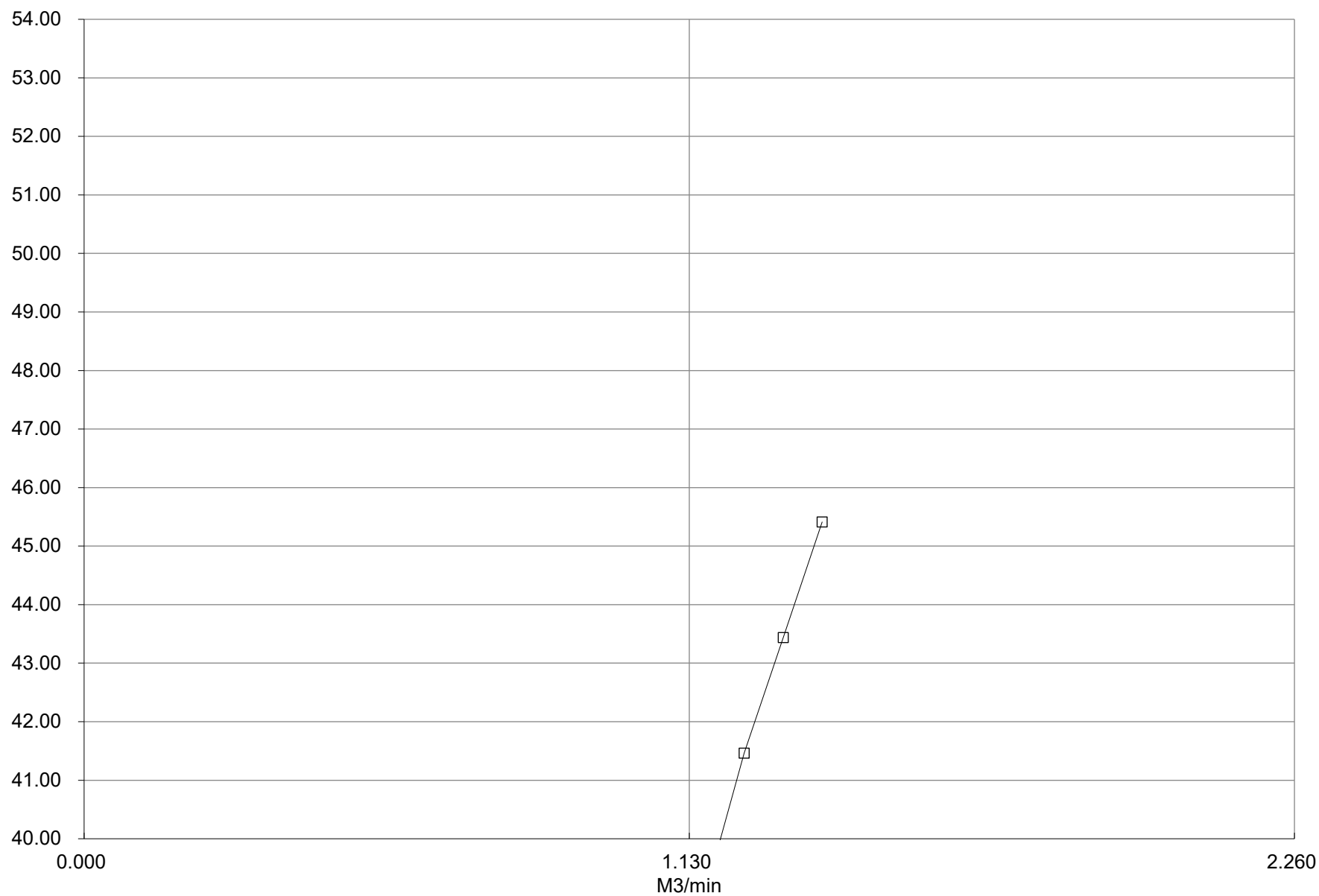
Total Flow in m3/min

1883.197543

Total Flow in CFM

66495.70526

NOTE: Ensure calibration orifice has been certified within 12 months of use





Site Information

Location: North Station
Sampler: E-5170 MFC

Site ID: 145
Serial No: 367

Date: 18-Jul-24
Tech: EO /JAK

Site Conditions

Barometric Pressure (in Hg): 28.54
Temperature (deg F): 68
Average Press. (in Hg): 28.54
Average Temp. (deg F): 70

Corrected Pressure (mm Hg): 731
Temperature (deg K): 293
Corrected Average (mm Hg): 731
Average Temp. (deg K): 294

Calibration Orifice

Make: Tisch
Model: TE-5028
Serial#: 3662

Qstd Slope: 1.68695
Qstd Intercept: -0.04137
Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	2.45	0.942	38.0	37.57	Slope: 32.0013
2	2.87	1.017	40.0	39.55	Intercept: 7.2733
3	3.25	1.081	42.0	41.53	Corr. Coeff: 0.9921
4	3.45	1.113	44.0	43.50	
5	4.01	1.198	46.0	45.48	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

1.130087287

Average Flow Calculation in CFM

39.90338211

Sample Time (Hrs): 24.0

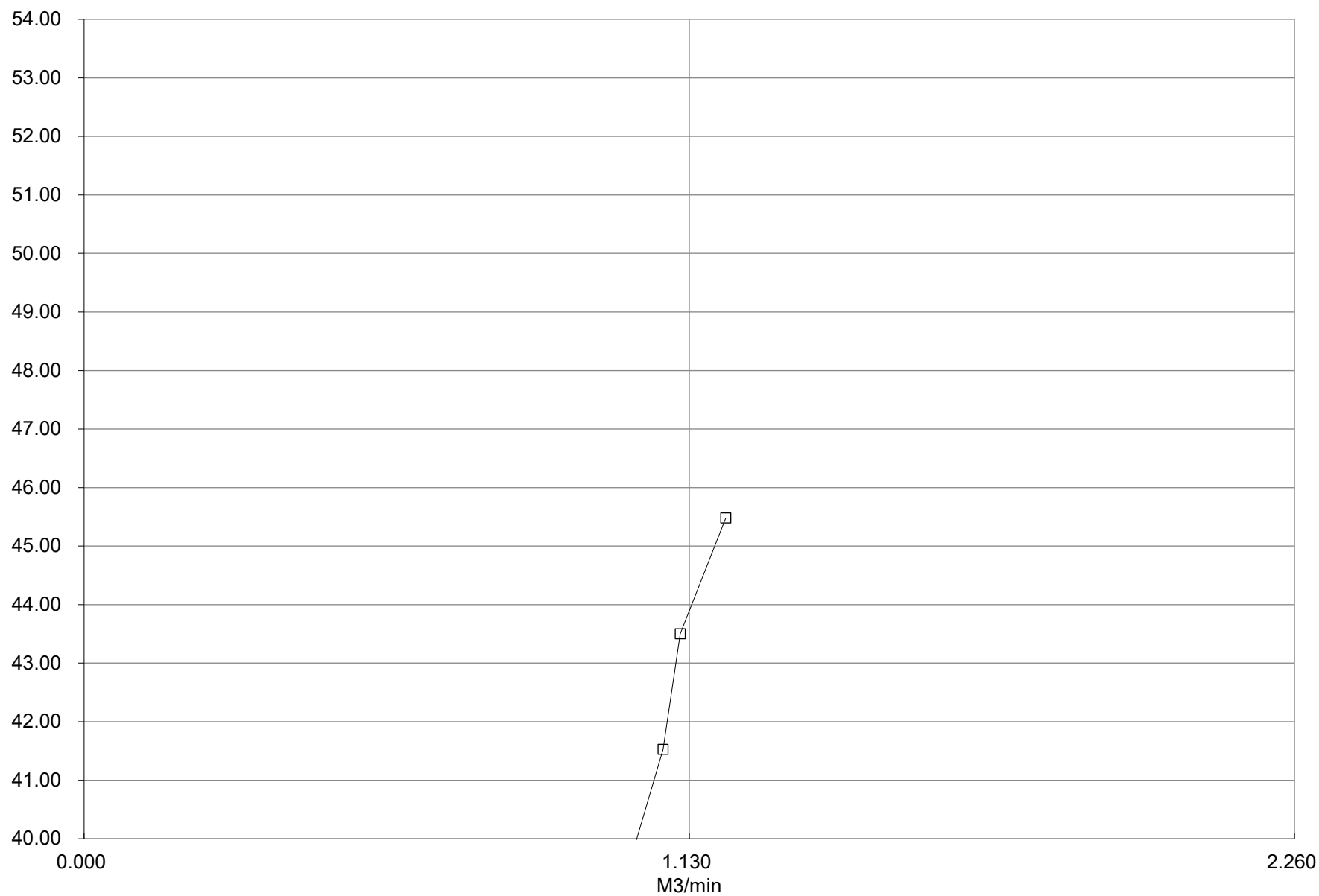
Total Flow in m3/min

1627.325694

Total Flow in CFM

57460.87024

NOTE: Ensure calibration orifice has been certified within 12 months of use





Site Information

Location: Northwest Station
 Sampler: E-5170 MFC

Site ID: 145
 Serial No: 367

Date: 18-Jul-24
 Tech: RL/EO

Site Conditions

Barometric Pressure (in Hg): 28.54
 Temperature (deg F): 70
 Average Press. (in Hg): 28.54
 Average Temp. (deg F): 70

Corrected Pressure (mm Hg): 733
 Temperature (deg K): 294
 Corrected Average (mm Hg): 731
 Average Temp. (deg K): 294

Calibration Orifice

Make: Tisch
 Model: TE-5028
 Serial#: 3662

Qstd Slope: 1.68695
 Qstd Intercept: -0.04137
 Date Certified: 11-Oct-23

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	3.48	1.118	38.0	37.57	Slope: 32.9377
2	3.78	1.164	40.0	39.55	Intercept: 1.0187
3	4.19	1.224	42.0	41.53	Corr. Coeff: 0.9979
4	4.65	1.288	44.0	43.50	
5	5.15	1.355	46.0	45.48	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H_2O(P_a/P_{std}))(T_{std}/T_a)] - b]$$

$$IC = I[\text{Sqrt}(P_a/P_{std})(T_{std}/T_a)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/T_a)](P_a/760)] - b]$$

m = sampler slope

b = sampler intercept

I = chart response

Ta = daily average temperature

Pa = daily average pressure

Average I (chart): 44.0

Average Flow Calculation m3/min

1.287850954

Average Flow Calculation in CFM

45.47401718

Sample Time (Hrs): 24.0

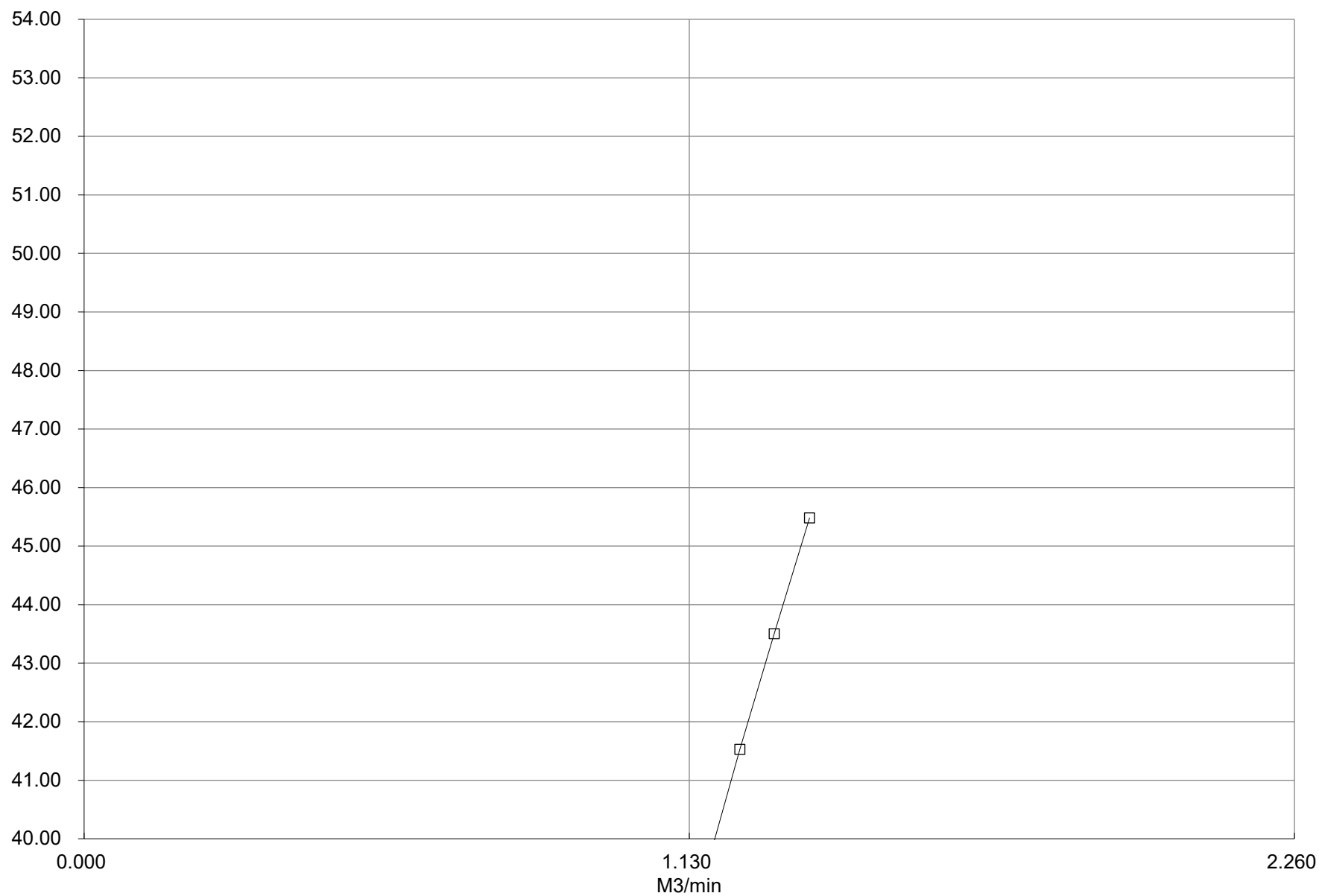
Total Flow in m3/min

1854.505374

Total Flow in CFM

65482.58474

NOTE: Ensure calibration orifice has been certified within 12 months of use



APPENDIX E: SAMPLE EDIT LOGS

Appendix E-1 Total Suspended Particulate Sample Edit Log

Appendix E-2 Respirable Particulate Matter Sample Edit Log

Appendix E-3 Dustfall Sample Edit Log

APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned
Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: July 5, 2024

End Date: September 27, 2024

#	Action	Date	Reason
1	Invalid sample	September 21	Sample volume of 1,461 m3 was below the lower volume limit of 1,468 m3.



Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North of the Site at Gallinger Road

Measurement Instrument: PQ200 Sampler

Start Date: July 5, 2024

End Date: September 27, 2024

#	Action	Date	Reason
1	Invalid sample	July 5	Sample volume of 1,456 m3 was below the lower volume limit of 1,468 m3.

APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Address: Rainy River Mine

Measurement Instrument: High Volume (Hi-Vol) Sampler

Station Name: Northwest Station

Start Date: July 5, 2024

Station Location: North-west of the Site at Tailings Management Area

End Date: September 27, 2024

#	Action	Date	Reason
1	Invalid sample	September 9	Technical issue with sampling – did not run for the programmed amount of time.
1	Invalid sample	September 15	Technical issue with sampling – did not run for the programmed amount of time.

APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

APPENDIX F: MECP AUDIT

Audited Instrument:

Station: North Make/Model: PQ200 S/N: _____Date: 2024/07/30 Time: 12:00 deltaCal® S/N: _____Tech: CC

Leak Test

Pass X Fail _____

Flow Rate – Lpm

Sampler: _____

deltaCal®: _____

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass _____ Fail _____

Ambient Temp. - °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Barometric Pressure – mm of Hg

Sampler: _____

deltaCal®: _____

Allowed diff. = ± 10 mm; Pass _____ Fail _____

Filter Temp. °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Audited Instrument:

Station: South Make/Model: PQ200 S/N: _____

Date: 2024/07/30 Time: 11:30 deltaCal® S/N: _____

Tech: CC

Leak Test

Pass X Fail _____

Flow Rate – Lpm

Sampler: _____

deltaCal®: _____

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass _____ Fail _____

Ambient Temp. - °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Barometric Pressure – mm of Hg

Sampler: _____

deltaCal®: _____

Allowed diff. = ± 10 mm; Pass _____ Fail _____

Filter Temp. °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: _____

Date: 2024/07/30 Time: 10:30 deltaCal® S/N: _____

Tech: CC

Leak Test

Pass X Fail _____

Flow Rate – Lpm

Sampler: _____

deltaCal®: _____

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass _____ Fail _____

Ambient Temp. - °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Barometric Pressure – mm of Hg

Sampler: _____

deltaCal®: _____

Allowed diff. = ± 10 mm; Pass _____ Fail _____

Filter Temp. °C

Sampler: _____

deltaCal®: _____

Allowed diff. = $\pm 2^\circ\text{C}$; Pass _____ Fail _____

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 719407

Date: 2024 08-31 Time: 1143 deltaCal® S/N: 172457

Tech: RL

Leak Test

Pass X Fail

Flow Rate – Lpm

Sampler: 16.7

deltaCal®: 16.84

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.83$

Allowed diff. = 4%; Pass X Fail

Ambient Temp. - °C

Sampler: 23.9

deltaCal®: 23.8

Allowed diff. = $\pm 2^\circ\text{C}$; Pass X Fail

Barometric Pressure – mm of Hg

Sampler: 723

deltaCal®: 724

Allowed diff. = ± 10 mm; Pass X Fail

Filter Temp. °C

Sampler: 23.5

deltaCal®: 23.1

Allowed diff. = $\pm 2^\circ\text{C}$; Pass X Fail

Audited Instrument:

Station: NORTH Make/Model: PQ200 S/N: 1752

Date: 2024-08-31 Time: 10:09 deltaCal® S/N: 172457

Tech: RL

Leak Test

Pass X Fail

Flow Rate – Lpm

Sampler: 16.70

deltaCal®: 16.77

% diff. = [(deltaCal®-sampler)/deltaCal®] x 100 = 0.42

Allowed diff. = 4%; Pass X Fail

Ambient Temp. - °C

Sampler: 18.1

deltaCal®: 18.3

Allowed diff. = ±2°C; Pass X Fail

Barometric Pressure – mm of Hg

Sampler: 721

deltaCal®: 723

Allowed diff. = ±10 mm; Pass X Fail

Filter Temp. °C

Sampler: 17.6

deltaCal®: 18.0

Allowed diff. = ± 2°C; Pass X Fail

Audited Instrument:

Station: South Make/Model: PQ200 S/N: 1751

Date: 2024-08-31 Time: 0930 deltaCal® S/N: 172457

Tech: RC

Leak Test

Pass X Fail _____

Flow Rate – Lpm

Sampler: 16.7

deltaCal®: 16.63

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = -0.42$

Allowed diff. = 4%; Pass X Fail _____

Ambient Temp. - °C

Sampler: 22.8

deltaCal®: 22.8

Allowed diff. = $\pm 2^\circ\text{C}$; Pass X Fail _____

Barometric Pressure – mm of Hg

Sampler: 720

deltaCal®: 723

Allowed diff. = ± 10 mm; Pass X Fail _____

Filter Temp. °C

Sampler: 21.4

deltaCal®: 22.2

Allowed diff. = $\pm 2^\circ\text{C}$; Pass X Fail _____

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 79407

Date: 2024-09-30 Time: 11:15 deltaCal® S/N: 172457

Tech: HJ

Leak Test

Pass ✓ Fail

Flow Rate – Lpm

Sampler: 16.71

deltaCal®: 13.12

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 27\%$

Allowed diff. = 4%; Pass Fail ✓

* Re-calibrated ✓
and passed
* 16.68 - deltaCal
%diff = 0.17%

Ambient Temp. - °C

Sampler: 22.3

deltaCal®: 22.7

Allowed diff. = ±2°C; Pass ✓ Fail

Barometric Pressure – mm of Hg

Sampler: 720.5

deltaCal®: 719

Allowed diff. = ±10 mm; Pass ✓ Fail

Filter Temp. °C

Sampler: 22.0

deltaCal®: 23.1

Allowed diff. = ± 2°C; Pass ✓ Fail

Audited Instrument:

Station: North Make/Model: PQ200 S/N: SN1752

Date: 20240930 Time: 10:05 deltaCal® S/N: 172657

Tech: HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.70

deltaCal®: 16.71

% diff. = $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.059$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: 20.3

deltaCal®: 19.9

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 718

deltaCal®: 720

Allowed diff. = ± 10 mm; Pass ☒ Fail ☐

Filter Temp. °C

Sampler: 20.0

deltaCal®: 20.1

Allowed diff. = $\pm 2^\circ\text{C}$; Pass ☒ Fail ☐

Audited Instrument:

Station: South Make/Model: PQ200 S/N: 1751

Date: 2024-09-30 Time: 10:46 deltaCal[®] S/N: 172457

Tech: HJ

Leak Test

Pass ☒ Fail ☐

Flow Rate – Lpm

Sampler: 16.67

deltaCal[®]: 16.47

% diff. = $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 = -1.2\%$

Allowed diff. = 4%; Pass ☒ Fail ☐

Ambient Temp. - °C

Sampler: 21.5°C

deltaCal[®]: 20.6°C

Allowed diff. = ±2°C; Pass ☒ Fail ☐

Barometric Pressure – mm of Hg

Sampler: 717 mm Hg

deltaCal[®]: 720.5

Allowed diff. = ±10 mm; Pass ☒ Fail ☐

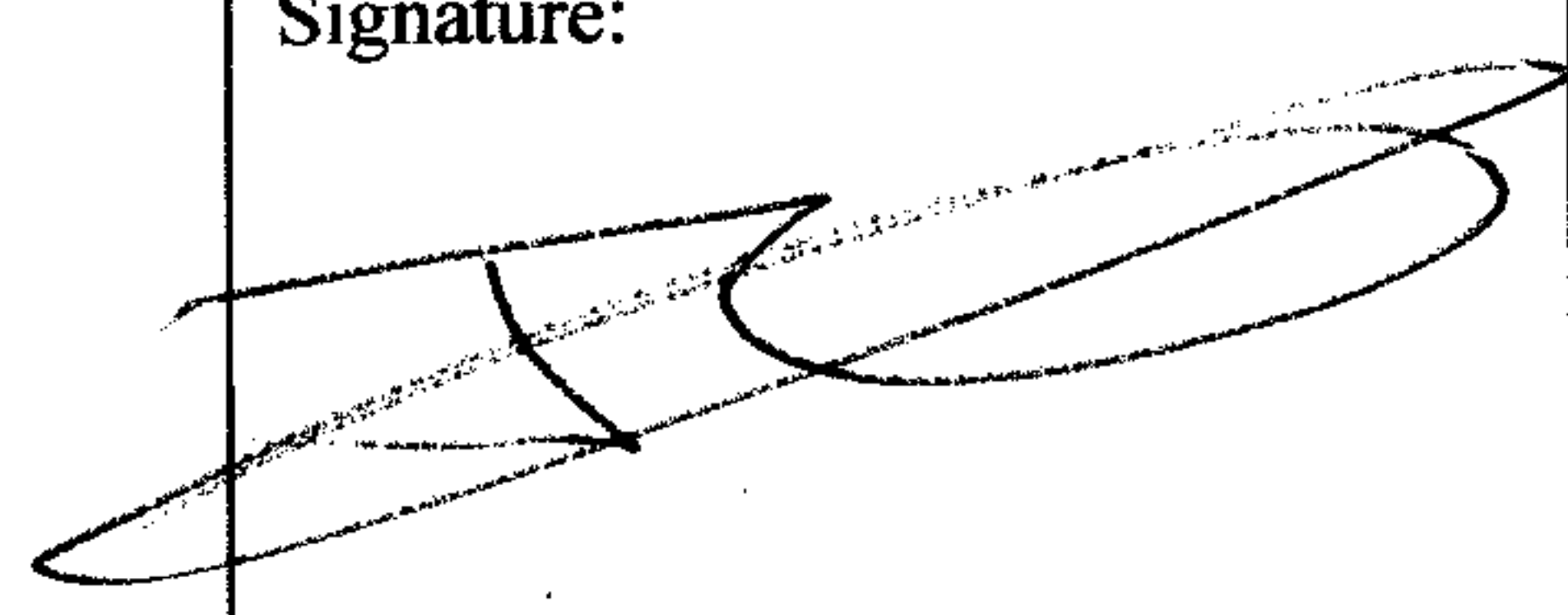
Filter Temp. °C

Sampler: 20.8

deltaCal[®]: 21.3

Allowed diff. = ± 2°C; Pass ☒ Fail ☐

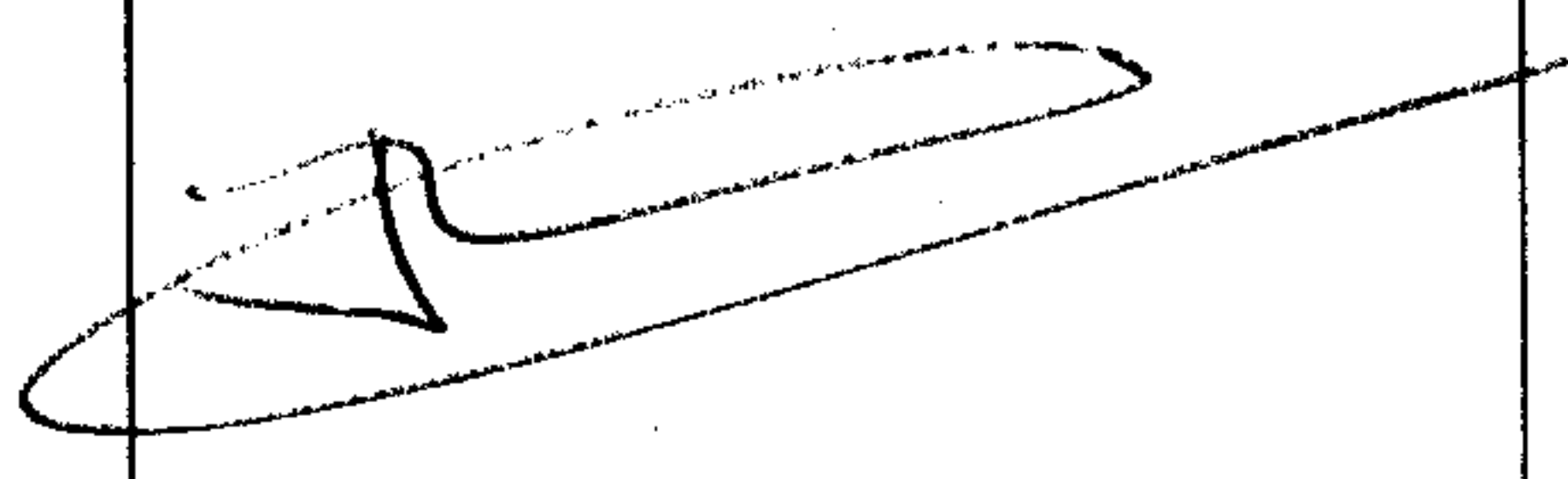
**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Tait Road Site- Stn# 62054			
City/Town: Chapple Municipality Ontario			
Site ID #: 62054		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/10/16		Auditor: Jim Stachowich #1528	
Calibrator make BGI		Instrumental serial # 1751	Instrument make BGI PQ200
Calibrator Serial No.		Pollutant PM 2.5	
Accuracy (GPS) +/- 10 meter		Zone 15U	
Easting 0426049		Northing 5406995	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number Treat #1 1P 25 BT	Manometer type: Alcott	Manometer S/N: 454265	
S = slope of the calibration orifice Qamb			
I = intercept of the calibration orifice Qamb			
Ambient Temperature 1.2°C		Ambient Pressure 737 mm Hg	
Audit Results		Required flow	
Manometer reading (in. of water)		Hi-vol & PM	40 cfm
True flow calculated result: $\sqrt{MR \times S + 1}$ 16.4 16.7		PAH	30 cfm
Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$		Dioxins	8 cfm
Leak Test 16.7		47 mm	16.7 L/M
Temperature Correction = $\text{SQRT} [298 / (273 + T_a)]$		T _a = AMBIENT TEMP °C	
Comments/observations (also general station conditions and status of logbooks):			
Clean + Cool			
Action Required (Auditor): Nothing Required		Signature: 	
Action Taken (Auditee):		Signature: Radyi Hangel	

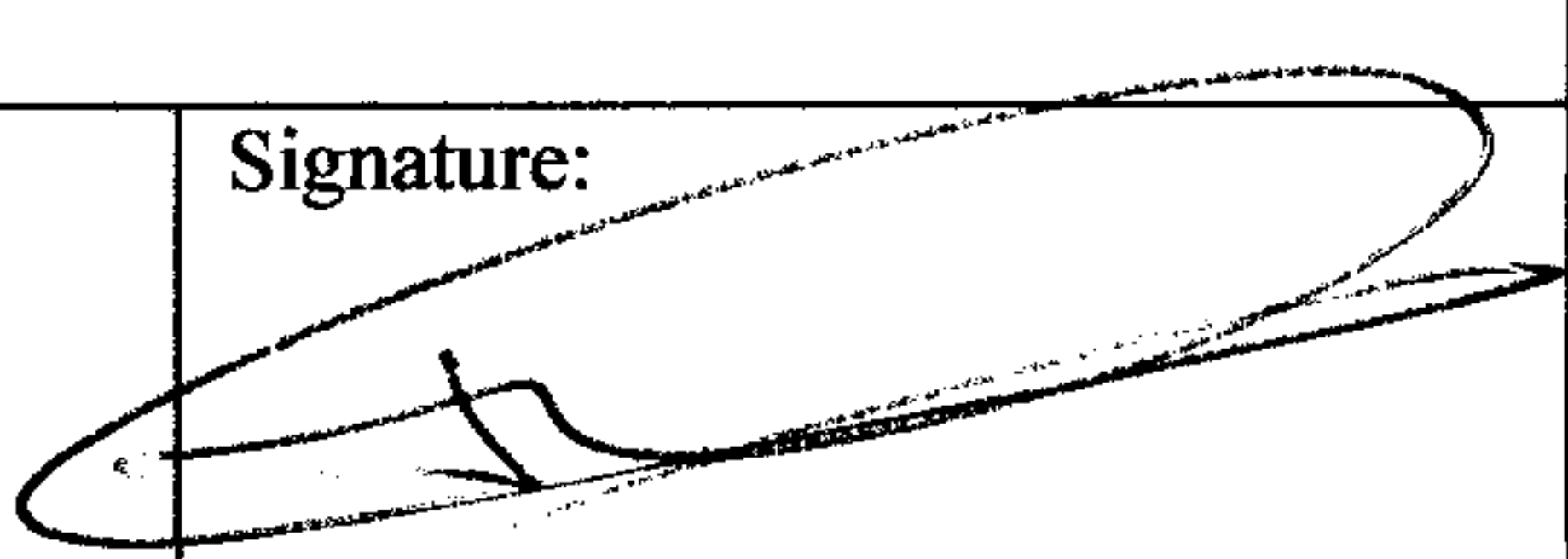
**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Tait Road Site- Stn# 62054			
City/Town: Chapple Municipality Ontario			
Site ID #: 62054		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/10/16		Auditor: Jim Stachowich #1528	
Calibrator make TISCH		Instrumental serial # TE-5007 s/n 418	Instrument make Blower Te-5005 s/n4548
Calibrator Serial No.		Pollutant TSP	
Accuracy (GPS) +/- 10 meter		Zone 15U	
Easting 0426049		Northing 5406995	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number TISCH TE-HVC-V	Manometer type: TISCH	Manometer S/N: 0196	
S = slope of the calibration orifice Qamb 1.31943			
I = intercept of the calibration orifice Qamb -0.01571			
Ambient Temperature 2.4°C		Ambient Pressure 774 mm Hg	
Audit Results		Required flow	
Manometer reading (in. of water)		Hi-vol & PM	40 cfm
True flow calculated result: $\sqrt{MR \times S + I}$ 39 40		PAH	30 cfm
Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ 1.5%		Dioxins	8 cfm
Leak Test 40		47 mm	16.7 L/M
Temperature Correction = $\text{SQRT} [298/(273+/-Ta)]$		Ta = AMBIENT TEMP °C	
Comments/observations (also general station conditions and status of logbooks):			
Cool + Clean			
Action Required (Auditor): [Signature]		Signature: [Signature]	
Action Taken (Auditee):		Signature: [Signature]	

**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit			
Site Name/Address: Gallinger Road Site- Stn# 62055			
City/Town: Chapple Municipality Ontario			
Site ID #: 62055		Operator/Representative: Newgold	
Date (yr/mm/dd): 24/10/16		Auditor: Jim Stachowich #1528	
Calibrator make BGI		Instrumental serial # 1752	Instrument make BGI PQ200
Calibrator Serial No.		Pollutant PM 2.5	
Accuracy (GPS) +/- 9 meter		Zone 15U	
Easting 0431129		Northing 5410593	
+/- 10% Objective/Criteria Met		Yes ☒	No ☐
Results			
Calibration Orifice and Equation - Manometer			
Calibration orifice number Tri-cal #1 1-P95BT		Manometer type: ~~TC5~~ ALICAT	Manometer S/N: 454200
S = slope of the calibration orifice Qamb			
I = intercept of the calibration orifice Qamb			
Ambient Temperature 0.6°C		Ambient Pressure 732. mm Hg	
Audit Results		Required flow	
Manometer reading (in. of water)		Hi-vol & PM 40 cfm	
True flow calculated result: $\sqrt{MR \times S + 1}$ 16.40 16.70		PAH 30 cfm	
Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ ↓ 1.8%		Dioxins 8 cfm	
Leak Test 16.70		47 mm 16.7 L/M	
Temperature Correction = $\text{SQRT} [298 / (273 + /- Ta)]$ Ta = AMBIENT TEMP °C			
Comments/observations (also general station conditions and status of logbooks):			
C/Km + Cool			
Action Required (Auditor): No Mthg / 4/6/16		Signature: 	
Action Taken (Auditee):		Signature: R. L. / 1/2/17	

**Non-Continuous Instrumentation
Particulate Matter
Atmospheric Analyser Performance Audit**

Particulate Matter Performance Audit		
Site Name/Address: Gallinger Road Site- Str# 62055		
City/Town: Chapple Municipality Ontario		
Site ID #: 62055	Operator/Representative: Newgold	
Date (yr/mm/dd): 27/10/16	Auditor: Jim Stachowich #1528	
Calibrator make TISCH	Instrumental serial # TE-5007 s/n4035	Instrument make Blower TE-5005 s/n3105
Calibrator Serial No.	Pollutant TSP	
Accuracy (GPS) +/- 9 meter	Zone 15U	
Easting 0431129	Northing 5410593	
+/- 10% Objective/Criteria Met	Yes ☒	No ☐
Results		
Calibration Orifice and Equation - Manometer		
Calibration orifice number TISCH TE-HVC-V	Manometer type: TISCH	Manometer S/N: 0196
S = slope of the calibration orifice Qamb 1.31943		
I = intercept of the calibration orifice Qamb -0.01571		
Ambient Temperature 2.2°C	Ambient Pressure 733 mm Hg	
Audit Results		Required flow
Manometer reading (in. of water)		Hi-vol & PM 40 cfm
True flow calculated result: $\sqrt{MR \times S + 1}$ 40 40		PAH 30 cfm
Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ 0%		Dioxins 8 cfm
Leak Test 40		47 mm 16.7 L/M
Temperature Correction = SQRT [298/(273+/-Ta)] Ta = AMBIENT TEMP °C		
Comments/observations (also general station conditions and status of logbooks):		
Clean + Cool		
Action Required (Auditor): No TSP Problems		Signature: 
Action Taken (Auditee):		Signature: 