Memo

To: Julie Buron, Senior Enforcement Officer, Impact Assessment Agency of Canada (IAAC)
Nicolas Courville, Senior Enforcement Officer, Impact Assessment Agency of Canada (IAAC)

Date: June 2nd, 2023

From: Kyle Levac, Senior Environmental Coordinator (IAMGOLD)

CC: Ben Stinson, Manager of Sustainability (IAMGOLD)
Genevieve Sulatycky, Environmental Superintendent (IAMGOLD)

Re: **IAMGOLD Corporation – Côté Gold Project – Construction Phase**
Written Notification of Total Suspended Solids Release to Chester Lake

IAMGOLD - Côté Gold Project has prepared this memorandum in accordance with Condition 8.4.3 of the amended Decision Statement, Issued Under Section 54 of The Canadian Environmental Assessment Act, 2012 to IAMGOLD Corporation on February 25th, 2019.

This memorandum addresses five exceedances of the Environmental Compliance Approval discharge limit for Total Suspended Solids (TSS) of 30 mg/L. The exceedances were reported to the Spills Action Centre (SAC) under one incident notification (SAC#1-3EWVFX) on April 18th, 2023.

The incident occurred at the Overburden Stockpile North Sedimentation Pond (OSNSP) while discharging through the weir plate, approximately 100m upstream of Chester Lake from April 12th to April 19th, 2023.

The following memo provides a summary of the TSS exceedances and corrective actions.

1.0 Summary of Incidents

Due to previous water quality issues at OSNSP caused by freshet, and elevated dissolved iron concentrations in the OSNSP, water within the pond was not suitable for discharge to the environment through filter bag pumping arrangements.

On April 12th, 2023, rising water levels due to freshet caused water levels at OSNSP to rise above the V-notch weir. Discharge through the v-notch weir was permitted to avoid overtopping the concrete sill.

Discharge through the weir has been ongoing since April 12th, 2023. Internal samples collected on April 12th, 2023, were below effluent limits for TSS. However, confirmatory samples collected on April 13th, 2023, showed TSS levels of 48 mg/L, above the daily effluent limit of 30 mg/L. Subsequent sampling showed TSS levels of 43.3 mg/L on April 14th, 38.7 mg/L on April 15th, 45 mg/L on April 16th and 45 mg/L on April 17th which also exceeded the daily effluent limit of 30 mg/L. Samples obtained after April 20th had concentrations less than the daily average limit.

Laboratory results and field readings for the exceedances at OSNSP from April 12th to April 23rd, 2023, are presented in Table 1 below.

Table 1: Overburden Stockpile North Sedimentation Pond Weir Discharge

Sample Date	Location	TSS (mg/L)	In-House TSS (mg/L)	Turbidity (Field) (NTU)
12/04/2023 11:40:00	OSNSP	21	20	40
13/04/2023 15:20:00	OSNSP	**48**	49.5	105
14/04/2023 14:45:00	OSNSP	**43.3**	42.35	116
15/04/2023 14:00:00	OSNSP	**38.7**	44	111
16/04/2023 09:55:00	OSNSP	**45**	5	165
17/04/2023 12:55:00	OSNSP	**45**	40	90.4
18/04/2023 11:25:00	OSNSP	-	35.5	87.2
19/04/2023 11:15:00	OSNSP	-	32.5	70.8
20/04/2023 12:25:00	OSNSP	26	22	58.7
21/04/2023 09:40:00	OSNSP	17.3	27.5	52.3
22/04/2023 10:15:00	OSNSP	-	26.5	50.8
23/04/2023 11:00:00	OSNSP	23	22	43.5

Following the initiation of discharge, downstream samples showed elevated TSS (12.0 mg/L to 13.0 mg/L on April 12th and April 13th, respectively) and field turbidity (13.9 to 12.6 NTU on April 12th and April 13th, respectively). Results are presented in Table 2 below.

Laboratory results and field readings for the downstream sampling location (OSNSP-D) are presented in Table 2 and upstream (OSNSP-U) results are presented in Table 3.

Table 2: Overburden Stockpile North Sedimentation Downstream			
Sample Date	Location	TSS (mg/L)	Turbidity (Field) (NTU)
12/04/2023 13:20:00	OSNSP-D	12.0	13.9
13/04/2023 16:05:00	OSNSP-D	13.3	12.6
14/04/2023 15:30:00	OSNSP-D	2.0	4.06
15/04/2023 12:50:00	OSNSP-D	5.3	2.86
16/04/2023 13:10:00	OSNSP-D	2.7	1.59 (Lab)
17/04/2023 13:40:00	OSNSP-D	-	3.42
18/04/2023 16:35:00	OSNSP-D	-	4.35
19/04/2023 11:10:00	OSNSP-D	-	2.09
20/04/2023 12:50:35	OSNSP-D	< 0.67	5.51
21/04/2023 10:00:00	OSNSP-D	-	2.59
22/04/2023 10:40:00	OSNSP-D	-	2.79
23/04/2023 10:35:00	OSNSP-D	1.7	2.08

Table 3: Overburden Stockpile North Sedimentation Pond Upstream			
Sample Date	Location	TSS (mg/L)	Turbidity (Field) (NTU)
12/04/2023 14:00:00	OSNSP-U	< 2.0	4.18
13/04/2023 15:40:00	OSNSP-U	44.0	26.5
14/04/2023 15:05:00	OSNSP-U	5.3	5.89
15/04/2023 12:30:00	OSNSP-U	2.0	5.53
16/04/2023 11:40:00	OSNSP-U	1.0	2.08 (Lab)
18/04/2023	OSNSP-U	-	-
19/04/2023 10:55:00	OSNSP-U	-	2.68
20/04/2023 12:15:00	OSNSP-U	< 0.67	3.06
21/04/2023 09:50:00	OSNSP-U	-	2.26
22/04/2023 10:20:00	OSNSP-U	-	2.9
23/04/2023 10:40:00	OSNSP-U	<0.67	2.81

Laboratory Certificates are provided in Appendix A.

Based on the established rating curve for the OSNSP, approximately 20,603.31 m^3 of effluent was discharged through the weir and overland toward Chester Lake between April 12th and April 19th, 2023.

Discharge and sample locations are shown in Figure 1 below.

Figure 1 – Discharge and Sample Locations

Based on the information available, the TSS exceedance incident is likely attributed to commissioning of a new structure and lack of natural erosion and sedimentation control (ESC) following ground disturbance for construction of the infrastructure.

2.0 Mitigation of Adverse Environmental Effects

2.1 Immediate Impact Mitigation

The North Sedimentation Pond pumping arrangement was modified to include recirculation with flocculent addition to treat for TSS.

A second recirculation pumping arrangement with flocculent addition tube was installed. Recirculation discharge was relocated to the upstream ditching of the OSNSP to allow more settling time prior to entering the North Sedimentation Pond. A silt curtain and flocculent blocks were installed in upstream ditching to help reduce TSS inputs to the sedimentation pond.

Silt curtains and flocculent blocks were installed downstream of the v-notch weir to mitigate impacts to the receiver (Chester Lake).

2.2 Long Term Mitigation and Improvements

To mitigate the potential for additional releases at OSNSP, IAMGOLD plans to execute a hydro seeding program for the area surrounding the Overburden North Sedimentation Pond and associated ditching to improve the natural erosion and sediment control (ESC) in the area.

Additionally, a review of the Overburden Stockpile is being completed to assess the as built conditions.

3.0 Notification of Indigenous Communities & Federal and Provincial Authorities

3.1 Indigenous Communities

Mattagami First Nation and Flying Post First Nation were notified of the incident on April 20th, 2023 at a Environmental Management Committee meeting between IAMGOLD and the project's IBA partners.

No comments or feedback regarding this incident were received.

3.2 Provincial and Federal Authorities

The incident was reported to SAC notification (SAC#1-3EWVFX) on April 18th, 2023. The Ministry of Environment, Conservation and Parks (MECP), the Department of Fisheries and Oceans (DFO) and the Impact Assessment Agency of Canada (IAAC) were subsequently notified. Details of the incident including site plans, sampling results and a description of the event were provided via memo, e-mails, and conference call to discuss the incident.

4.0 Residual Adverse Environmental Effects

Effluent sampling completed for the discharge show results for potential contaminants of concern below MDMER effluent limits and Sublethal toxicity sampling completed shows that effluent released was not acutely lethal. Sampling results as compared to MDMER and CCME Guidelines for the Protection of Aquatic Life are presented in Table 4.

Tbale 4: Effluent Sampling Rexsults																																
Sample Date	Location		Sub Tox - Ceriodaphnia Dubia (%)		Sub Tox - RBT (%)		Arsenic (Total) (mg/L)		CV Mercury (mg/L)		Copper (Total) (mg/L)		Lead (Total) (mg/L)		Molybdenum (Total) (mg/L)		Nickel (Total) (mg/L)		Selenium (Total) (mg/L)		Uranium (Total) (mg/L)		Zinc (Total) (mg/L)		Total Phosphorus (as P) (mg/L)		Un-Ionized Ammonia (mg/L)		Cyanide (Total) (mg/L)
23-04-2023 11:00:00	OSNSP					<	0.001	<	0.00001		0.008		0.0006		0.002		0.003		0.0003		0.002		0.002		0.01	<	0.002		0.003
16-04-2023 09:55:00	OSNSP		0.0		0.0		0.001	<	0.00001		0.012		0.0009		0.002		0.005		0.0004		0.002		0.006		0.021	<	0.002		0.003
12-04-2023 11:40:00	OSNSP		0.0		0.0	<	0.001	<	0.00001		0.009		0.0005		0.001		0.003	<	0.0002		0.002		0.004		0.019	<	0.002		0.006
MDMER Effluent Limits							0.2				0.2		0.16				0.5										1		1
CCME Guidelines for the Protection of Aquatic Life							0.005		0.000026						0.073				0.001		0.015		0.8						

Laboratory Certificates are provided in Appendix A.

Based on receiver sampling results and effluent sampling results as compared to MDMER effluent limits and CCME guidelines (where available), no lasting impacts (dissipated within 48 hours) were observed at the downstream receiver (Chester Lake) as a result of this exceedance.

5.0 Implementation of Emergency Response Plan

The emergency response plan (Cote Project Emergency Response Plan CONSTRUCTION PHSE – 100264-000-AA00-PLN-0005) and the Spill Prevention and Response Plan (Spill Prevention and Response Plan – 100264-000-AA00-PLN-0502) for the Cote Gold project were followed for this release.

Activities performed as outlined in the existing plans:

- Spill Prevention – Engineering Controls - Operational water management controls and procedures - Water quality sampling and testing procedures
- Spill Response – Spills on Land and Water
- Spill Response – Mitigation of Impacts to Environmental Sensitive Features
- Spill Notifications and Reporting

6.0 Closure

Please do not hesitate to contact us with any additional questions or in request of additional information.

Prepared by:

Kyle Levac

Kyle Levac
Sr. Environmental Coordinator
IAMGOLD

Reviewed by:

Genevieve Sulatycky

Genevieve Sulatycky
Environmental Superintendent
IAMGOLD

Appendix A

Laboratory Certificates

TESTMARK Laboratories Ltd.
Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	495634
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St	Regulation:	Other
	Sudbury, ON, P3E 5S8	Project #:	TMF Central Pond Monthly Water Sampling
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JC SM HN
Date Order Received:	4/13/2023	Analysis Started:	4/13/2023
Arrival Temperature:	10 °C	Analysis Completed:	4/21/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1867852	Surface Water	Grab		4/12/2023	11:40 AM
DUP1	1867853	Surface Water	Grab		4/12/2023	
DM CONTROL	1867856	Water	Grab			

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Garson	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Garson	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Anions Water (mg/L by IC) (A5)	Garson	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
BOD (A3)	Garson	Determination of Biochemical Oxygen Demand (BOD) 5-Day	Modified from SM-5210 B
COD (R4)	Garson	Determination of Chemical Oxygen Demand (COD)	Modified from APHA-5220D
Colour, Apparent (A26)	Garson	Determination of Colour by Spectrophotometry	Modified from SM 2120 C
Colour, True (A26)	Garson	Determination of Colour by Spectrophotometry	Modified from SM 2120 C
Conductivity of Water (A12)	Garson	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B

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IAMGOLD - Cote Project

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Method	Lab	Description	Reference
DOC Water FF (A55.1)	Garson	Determination of Dissolved Organic Carbon in Water -> Field-Filtered	Modified from SM-5310 C
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Garson	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
ICPMS Tot. Water (A13)	Garson	Determination of Total Metals in Water by ICP/MS with Digestion	Modified from SW846-6020A
Mercury CV Water (S8)	Timmins	Determination of Inorganic Mercury in Water by Cold Vapour	Modified from EPA 245.7
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Reg. Hardness (A13)	Garson	Determination of Total Hardness	Modified from APHA-2340B
Single Conc DM (A63)	Garson	Acute Lethality (100% Effluent) of Toxicants to Daphnia magna - 48 Hour Test	Modified from EPS 1/RM/14
Single Conc RBT (A62)	Garson	Acute Lethality (100% Effluent) of Toxicants to Rainbow Trout - 96 Hour Test	Modified from EPS 1/RM/13
TDS (A27)	Garson	Determination of Total Dissolved Solids in water by gravimetry	Modified from SM-2540
TOC Water (A55.2)	Garson	Determination of Total Organic Carbon in Water	Modified from SM-5310 C
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B
Un-Ionized NH3 (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

REPORT COMMENTS

Compliance

7 Margaret Street, Garson, ON, P3L 1E1
Phone: (705) 693-1121 Fax: (705) 693-1124 Web: www.testmark.ca

CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 495634

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

7 Margaret Street, Garson, ON, P3L 1E1
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IAMGOLD - Cote Project

Work Order Number: 495634

WORK ORDER RESULTS

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Anions	Result	MDL	Result	MDL	Units
Chloride	2.7	0.2	3.1	0.2	mg/L
Fluoride	<0.05	0.05	<0.05	0.05	mg/L
Nitrate (as N)	0.42	0.05	0.48	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	4.2	0.5	5.0	0.5	mg/L

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Colour	Result	MDL	Result	MDL	Units
Apparent Colour	308.0 [309.0]	1.5	255.0	1.5	TCU
True Colour	23.6 [24.9]	1.5	59.0	1.5	TCU

Sample Description	OSNSP		
Sample Date	4/12/2023 11:40 AM		
Lab ID	1867852		
Field Parameters	Result	MDL	Units
Field pH	7.11	N/A	pH
Field Temp	3.5	N/A	°C

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Sample Description	OSNSP		DUP1		DM CONTROL		
Sample Date	4/12/2023 11:40 AM		4/12/2023		[Not Provided]		
Lab ID	1867852		1867853		1867856		
General Chemistry	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Acidity	<5	5	<5	5			mg/L as CaCO3
Ammonia (as N)	0.53 [0.58]	0.01	0.69	0.01			mg/L
Conductivity	280	1	243	1			µS/cm
Dissolved Organic Carbon	14.7 [14.7]	0.4	11.5	0.4			mg/L
Free Cyanide	0.004	0.001	0.004	0.001			mg/L
M-Alkalinity (pH 4.5)	113	2	104	2			mg/L as CaCO3
pH	7.81	N/A	7.8	N/A			pH
Total Cyanide	0.006	0.002	0.004	0.002			mg/L
Total Hardness (as CaCO3) (Calc.)	129.0	0.1	131.0	0.1	181.0	0.1	mg/L
Total Organic Carbon	15.2	0.4	13.8 [13.8]	0.4			mg/L
Total Phosphorus (as P)	0.019	0.002	0.015 [0.016]	0.002			mg/L
Turbidity	72.70	0.06	52.60	0.06			NTU
Un-Ionized Ammonia (Calc.)	<0.002	0.002					mg/L

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Mercury by CV	**Result**	**MDL**	**Result**	**MDL**	**Units**
Mercury	<0.00001	0.00001	<0.00001	0.00001	mg/L

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Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.00001	0.00001	<0.00001	0.00001	mg/L

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.046 [0.046]	0.001	0.071	0.001	mg/L
Dissolved Antimony	<0.0005 [<0.0005]	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Barium	0.016 [0.015]	0.001	0.013	0.001	mg/L
Dissolved Beryllium	<0.0005 [<0.0005]	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Boron	<0.002 [<0.002]	0.002	<0.002	0.002	mg/L
Dissolved Cadmium	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	40.50 [41.30]	0.05	32.90	0.05	mg/L
Dissolved Cerium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.003 [0.003]	0.001	0.002	0.001	mg/L

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Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Cobalt	0.0022 [0.0022]	0.0001	0.0016	0.0001	mg/L
Dissolved Copper	0.005 [0.005]	0.001	0.005	0.001	mg/L
Dissolved Europium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Gallium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Iron	0.08 [0.08]	0.02	0.10	0.02	mg/L
Dissolved Lanthanum	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005 [<0.005]	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	5.480 [5.660]	0.004	4.230	0.004	mg/L
Dissolved Manganese	1.27 [1.32]	0.01	0.97	0.01	mg/L
Dissolved Mercury	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Dissolved Molybdenum	0.001 [0.001]	0.001	0.002	0.001	mg/L
Dissolved Nickel	0.001 [0.001]	0.001	<0.001	0.001	mg/L
Dissolved Niobium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05 [<0.05]	0.05	<0.05	0.05	mg/L
Dissolved Potassium	2.6 [2.7]	0.1	2.4	0.1	mg/L
Dissolved Rhodium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L

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Work Order Number: 495634

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Rubidium	0.003 [0.004]	0.001	0.003	0.001	mg/L
Dissolved Scandium	0.001 [0.001]	0.001	<0.001	0.001	mg/L
Dissolved Selenium	<0.0002 [<0.0002]	0.0002	<0.0002	0.0002	mg/L
Dissolved Silicon	2.3 [2.4]	0.6	1.9	0.6	mg/L
Dissolved Silver	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	3.3 [3.5]	0.1	2.6	0.1	mg/L
Dissolved Strontium	0.067 [0.069]	0.001	0.055	0.001	mg/L
Dissolved Sulfur	1.2 [1.5]	0.8	1.3	0.8	mg/L
Dissolved Tellurium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.002 [0.002]	0.001	0.002	0.001	mg/L
Dissolved Tungsten	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Uranium	0.002 [0.002]	0.001	0.002	0.001	mg/L
Dissolved Vanadium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 495634

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Zinc	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Total)	Result	MDL	Result	MDL	Units
Total Aluminum	1.15 [1.13]	0.01	1.05	0.01	mg/L
Total Antimony	<0.0005 [<0.0005]	0.0005	<0.0005	0.0005	mg/L
Total Arsenic	<0.001 [0.001]	0.001	<0.001	0.001	mg/L
Total Barium	0.021 [0.019]	0.001	0.021	0.001	mg/L
Total Beryllium	<0.0005 [0.0008]	0.0005	<0.0005	0.0005	mg/L
Total Bismuth	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Boron	<0.002 [<0.002]	0.002	<0.002	0.002	mg/L
Total Cadmium	0.00006 [0.00019]	0.00002	<0.00002	0.00002	mg/L
Total Calcium	34.00 [39.9]	0.05	33.20	0.05	mg/L
Total Cerium	0.006 [0.005]	0.001	0.006	0.001	mg/L
Total Cesium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495634

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Total)	Result	MDL	Result	MDL	Units
Total Chromium	0.004 [0.003]	0.001	0.004	0.001	mg/L
Total Cobalt	0.0033 [0.0034]	0.0001	0.0031	0.0001	mg/L
Total Copper	0.009 [0.007]	0.001	0.010	0.001	mg/L
Total Europium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Gallium	0.002 [0.001]	0.001	0.002	0.001	mg/L
Total Iron	2.47 [2.5]	0.02	1.75	0.02	mg/L
Total Lanthanum	0.003 [0.003]	0.001	0.003	0.001	mg/L
Total Lead	0.0005 [0.0005]	0.0001	0.0006	0.0001	mg/L
Total Lithium	<0.005 [<0.005]	0.005	<0.005	0.005	mg/L
Total Magnesium	5.500 [5.760]	0.004	5.310	0.004	mg/L
Total Manganese	1.49 [1.48]	0.01	1.39	0.01	mg/L
Total Mercury	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Total Molybdenum	0.001 [0.002]	0.001	0.002	0.001	mg/L
Total Nickel	0.003 [0.003]	0.001	0.003	0.001	mg/L
Total Niobium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Phosphorus	<0.05 [<0.05]	0.05	<0.05	0.05	mg/L
Total Potassium	2.6 [2.4]	0.1	2.6	0.1	mg/L

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Work Order Number: 495634

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Total)	Result	MDL	Result	MDL	Units
Total Rhodium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Rubidium	0.005 [0.005]	0.001	0.005	0.001	mg/L
Total Scandium	0.003 [0.002]	0.001	0.003	0.001	mg/L
Total Selenium	<0.0002 [0.0003]	0.0002	<0.0002	0.0002	mg/L
Total Silicon	4.2 [5.0]	0.6	3.8	0.6	mg/L
Total Silver	<0.0001 [0.0001]	0.0001	<0.0001	0.0001	mg/L
Total Sodium	2.5 [2.2]	0.1	2.4	0.1	mg/L
Total Strontium	0.073 [0.068]	0.001	0.070	0.001	mg/L
Total Sulphur	<0.8 [<0.8]	0.8	<0.8	0.8	mg/L
Total Tellurium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Thallium	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	mg/L
Total Thorium	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Tin	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Titanium	0.041 [0.043]	0.001	0.038	0.001	mg/L
Total Tungsten	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L
Total Uranium	0.002 [0.002]	0.001	0.002	0.001	mg/L
Total Vanadium	0.004 [0.002]	0.001	0.004	0.001	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495634

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Metals (Total)	Result	MDL	Result	MDL	Units
Total Yttrium	0.002 [0.002]	0.001	0.002	0.001	mg/L
Total Zinc	0.004 [0.003]	0.001	0.003	0.001	mg/L
Total Zirconium	0.002 [0.002]	0.001	0.002	0.001	mg/L

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Oxygen Demand	Result	MDL	Result	MDL	Units
BOD (5 day)	9.3	1	8.2	1	mg/L
Chemical Oxygen Demand	38	5	38	5	mg/L

Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Radionuclides	Result	MDL	Result	MDL	Units
Radium-226	0.017	0.005	0.013	0.005	Bq/L

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Sample Description	OSNSP		DUP1		
Sample Date	4/12/2023 11:40 AM		4/12/2023		
Lab ID	1867852		1867853		
Solids	Result	MDL	Result	MDL	Units
Total Dissolved Solids	370	20	400 [400]	20	mg/L
Total Suspended Solids	21	2	18	2	mg/L

Sample Description	OSNSP		
Sample Date	4/12/2023 11:40 AM		
Lab ID	1867852		
Toxicology - Single Concentration Daphnia magna	Result	MDL	Units
% Mortality at 100% Effluent (Calc.)	0	N/A	%

Sample Description	OSNSP		
Sample Date	4/12/2023 11:40 AM		
Lab ID	1867852		
Toxicology - Single Concentration RBT	Result	MDL	Units
% Mortality at 100% Effluent (Calc.)	0	N/A	%

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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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IAMGOLD - Cote Project

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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

Anions

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	0.2	mg/L	0	<0.2	0.6	20230414.A5G
Fluoride	0.05	mg/L	0	<0.05	0.3	20230414.A5G
Nitrate (as N)	0.05	mg/L	0	<0.05	0.3	20230414.A5G
Nitrite (as N)	0.05	mg/L	0	<0.05	0.09	20230414.A5G
Sulphate	0.5	mg/L	0	<0.5	3	20230414.A5G

Positive Control: LFB-5 (20/10/1 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	% Rec	80	116	120	20230414.A5G
Fluoride	N/A	% Rec	80	96.4	120	20230414.A5G
Nitrate (as N)	N/A	% Rec	80	100	120	20230414.A5G
Nitrite (as N)	N/A	% Rec	80	108	120	20230414.A5G
Sulphate	N/A	% Rec	80	108	120	20230414.A5G

Positive Control: LFB-7 (100/50 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	% Rec	80	116	120	20230414.A5G
Fluoride	N/A	% Rec	80	112	120	20230414.A5G
Nitrate (as N)	N/A	% Rec	80	115	120	20230414.A5G
Nitrite (as N)	N/A	% Rec	80	107	120	20230414.A5G
Sulphate	N/A	% Rec	80	108	120	20230414.A5G

Sample Spike: LFS-R (Spiked Sample) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	% Rec	75	98.7	125	20230414.A5G
Fluoride	N/A	% Rec	75	87.8	125	20230414.A5G
Nitrate (as N)	N/A	% Rec	75	88.7	125	20230414.A5G

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Nitrite (as N)	N/A	% Rec	75	83.4	125	20230414.A5G
Sulphate	N/A	% Rec	75	89.5	125	20230414.A5G

Colour

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Apparent Colour	1.5	TCU	0	<1.5	4.5	20230413.A26C
True Colour	2	TCU	0	<2	4.5	20230413.A26D

Positive Control: LFB-7 (70 TCU) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Apparent Colour	1.5	TCU	63	73.3	77	20230413.A26C
True Colour	1.5	TCU	63	73.3	77	20230413.A26D

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Apparent Colour	N/A	%	0	0.3	20	20230413.A26C
True Colour	N/A	%	0	5.4	20	20230413.A26D

General Chemistry

Blank: LRB-6 (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0	<0.01	0.03	20230413.A42H

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Acidity	5	mg/L as CaCO3	0	<5	15	20230413.A24.0D
Conductivity	1	µS/cm	0	<1	5	20230413.A12D
Dissolved Organic Carbon	0.4	mg/L	0	<0.4	1.2	20230414.A55.1C
Free Cyanide	0.001	mg/L	0	<0.001	0.003	20230414.TM-KL.A43F1
M-Alkalinity (pH 4.5)	2	mg/L as CaCO3	0	<2	6	20230413.A1.0D
Total Cyanide	0.002	mg/L	0	<0.002	0.006	20230414.TM-KL.A43T1
Total Organic Carbon	0.4	mg/L	0	<0.4	1.2	20230414.A55.2C

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Turbidity	0.1	NTU	0	0.1	0.3	20230413.TM-G.A21B

Method Blank: Method Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	<0.002	0.006	20230413.A23.2G

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	4.93	5.4	5.45	20230413.TM-G.A21B

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	54.1	57	59.8	20230413.TM-G.A21B

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	453	478	501	20230413.TM-G.A21B

Positive Control: Lab Control Sample .05 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0414	0.06	20230413.A23.2G

Positive Control: Lab Control Sample .2 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.18	0.189	0.22	20230413.A23.2G

Positive Control: LFB-3 (100 mg/L CaCO3) (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Acidity	5	mg/L as CaCO3	80	104	120	20230413.A24.0D

Positive Control: LFB-4 (100 mg/L CaCO3) (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
M-Alkalinity (pH 4.5)	2	mg/L as CaCO3	80	101	120	20230413.A1.0D

Positive Control: LFB-5 (500 µS/cm) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Conductivity	1	µS/cm	475	486	525	20230413.A12D

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Positive Control: LFB-7 (0.25 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0.2	0.218	0.3	20230413.A42H

Positive Control: LFB-7 (15 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	12.5	15.1	17.5	20230414.A55.1C
Total Organic Carbon	0.4	mg/L	12.5	15.2	17.5	20230414.A55.2C

Positive Control: LFRB-5 (0.250 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.213	0.269	0.288	20230414.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0.213	0.272	0.288	20230414.TM-KL.A43T1

Positive Control: LFRB-7 (0.100 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.085	0.102	0.115	20230414.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0.085	0.103	0.115	20230414.TM-KL.A43T1

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	8.03	8.2	20230413.A2.0D

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Organic Carbon	N/A	%	0	0	15	20230414.A55.1C
Total Organic Carbon	N/A	%	0	0	15	20230414.A55.2C
Turbidity	N/A	%	0	0.3	20	20230413.TM-G.A21B

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Conductivity	N/A	%	0	2.2	20	20230413.A12D
M-Alkalinity (pH 4.5)	N/A	%	0	3.5	20	20230413.A1.0D
pH	N/A	% Rec	0	0.01	0.2	20230413.A2.0D

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Sample Replicate: %RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	%	0	8	20	20230413.A42H

Sample Spike: LFMS-9 (10 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Organic Carbon	N/A	% Rec	80	91.9	120	20230414.A55.1C

Sample Spike: LFS-9 (Sample Spike) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	% Rec	80	95.9	120	20230413.A42H

Sample Spike: LFSM-9 (0.100 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	N/A	% Rec	80	100	120	20230414.TM-KL.A43F1

Sample Spike: LFSM-9 (0.100 mg/L) (98)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	% Rec	80	89.6	120	20230414.TM-KL.A43T1

Sample Spike: LFSM-9 (10 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Organic Carbon	N/A	% Rec	80	97	120	20230414.A55.2C

Sample Spike: Matrix Spike (UCL 125, LCL 75, New) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	96.4	125	20230413.A23.2G

Mercury by CV

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	2.25E-05	2.7e-005	2.75E-05	20230414.TM-T.A8E

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	9e-006	mg/L	9E-06	9.46e-006	1.1E-05	20230414.TM-T.A8E

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Mercury	9e-006	mg/L	9E-06	9.78e-006	1.1E-05	20230414.TM-T.A8C

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230414.TM-T.A8C
Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230414.TM-T.A8E

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	0.01	%	85	101	115	20230414.TM-T.A8C
Mercury	0.01	%	85	99.9	115	20230414.TM-T.A8E

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	2e-006	mg/L	3E-06	5.32e-006	7E-06	20230414.TM-T.A8C
Mercury	2e-006	mg/L	3E-06	5.36e-006	7E-06	20230414.TM-T.A8E

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	N/A	% Rec	85	91.2	115	20230414.TM-T.A8C
Mercury	N/A	% Rec	85	99.3	115	20230414.TM-T.A8E

Mercury by CV (Dissolved)

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	2.25E-05	2.34e-005	2.75E-05	20230414.TM-T.A8B

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	9E-06	9.11e-006	1.1E-05	20230414.TM-T.A8B
Dissolved Mercury	9e-006	mg/L	9E-06	9.98e-006	1.1E-05	20230414.TM-T.A8D

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230414.TM-T.A8B
Dissolved Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230414.TM-T.A8D

CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 495634

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	%	85	112	115	20230414.TM-T.A8B
Dissolved Mercury	N/A	%	85	98.2	115	20230414.TM-T.A8D

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	2e-006	mg/L	3E-06	4.93e-006	7E-06	20230414.TM-T.A8B
Dissolved Mercury	2e-006	mg/L	3E-06	5.39e-006	7E-06	20230414.TM-T.A8D

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	% Rec	85	105	115	20230414.TM-T.A8D

Metals (Dissolved)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0	0.0016	0.001	20230413.A13.3L
Dissolved Antimony	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Arsenic	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Barium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Beryllium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Bismuth	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Boron	0.002	mg/L	0	<0.002	0.005	20230413.A13.3L
Dissolved Cadmium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Calcium	0.05	mg/L	0	<0.05	0.05	20230413.A13.3L
Dissolved Cerium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Cesium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Chromium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Cobalt	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Copper	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Europium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L

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Dissolved Gallium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Iron	0.02	mg/L	0	<0.02	0.02	20230413.A13.3L
Dissolved Lanthanum	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Lead	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Lithium	0.005	mg/L	0	<0.005	0.005	20230413.A13.3L
Dissolved Magnesium	0.004	mg/L	0	<0.004	0.004	20230413.A13.3L
Dissolved Manganese	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230413.A13.3L
Dissolved Molybdenum	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Nickel	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Niobium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Phosphorus	0.05	mg/L	0	<0.05	0.05	20230413.A13.3L
Dissolved Potassium	0.1	mg/L	0	<0.1	0.1	20230413.A13.3L
Dissolved Rubidium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Scandium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Selenium	0.0002	mg/L	0	0.000254	0.001	20230413.A13.3L
Dissolved Silicon	0.6	mg/L	0	<0.6	0.6	20230413.A13.3L
Dissolved Silver	0.0001	mg/L	0	<0.0001	0.0001	20230413.A13.3L
Dissolved Sodium	0.1	mg/L	0	<0.1	0.3	20230413.A13.3L
Dissolved Strontium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Sulfur	0.8	mg/L	0	<0.8	0.8	20230413.A13.3L
Dissolved Tellurium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Thallium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Thorium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Tin	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Titanium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Tungsten	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Uranium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Vanadium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Yttrium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L
Dissolved Zinc	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L

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Dissolved Zirconium	0.001	mg/L	0	<0.001	0.001	20230413.A13.3L

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	80	103	120	20230413.A13.3L
Dissolved Antimony	N/A	%	80	109	120	20230413.A13.3L
Dissolved Arsenic	N/A	%	80	108	120	20230413.A13.3L
Dissolved Barium	N/A	%	80	99.2	120	20230413.A13.3L
Dissolved Beryllium	N/A	%	80	113	120	20230413.A13.3L
Dissolved Boron	N/A	%	80	100	120	20230413.A13.3L
Dissolved Cadmium	N/A	%	80	100	120	20230413.A13.3L
Dissolved Calcium	N/A	%	80	99.6	120	20230413.A13.3L
Dissolved Chromium	N/A	%	80	105	120	20230413.A13.3L
Dissolved Cobalt	N/A	%	80	103	120	20230413.A13.3L
Dissolved Copper	N/A	%	80	105	120	20230413.A13.3L
Dissolved Iron	N/A	%	80	103	120	20230413.A13.3L
Dissolved Lead	N/A	%	80	96.1	120	20230413.A13.3L
Dissolved Magnesium	N/A	%	80	102	120	20230413.A13.3L
Dissolved Manganese	N/A	%	80	101	120	20230413.A13.3L
Dissolved Mercury	N/A	%	80	106	120	20230413.A13.3L
Dissolved Molybdenum	N/A	%	80	99.6	120	20230413.A13.3L
Dissolved Nickel	N/A	%	80	101	120	20230413.A13.3L
Dissolved Phosphorus	N/A	%	80	97.3	120	20230413.A13.3L
Dissolved Potassium	N/A	%	80	98.2	120	20230413.A13.3L
Dissolved Selenium	N/A	%	80	111	120	20230413.A13.3L
Dissolved Silicon	N/A	%	80	95.7	120	20230413.A13.3L
Dissolved Sodium	N/A	%	80	96.7	120	20230413.A13.3L
Dissolved Sulfur	N/A	%	80	99	120	20230413.A13.3L
Dissolved Thallium	N/A	%	80	96.2	120	20230413.A13.3L
Dissolved Uranium	N/A	%	80	96	120	20230413.A13.3L
Dissolved Vanadium	N/A	%	80	105	120	20230413.A13.3L
Dissolved Zinc	N/A	%	80	111	120	20230413.A13.3L

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Work Order Number: 495634

Reference Sample: CRM-12 EP-L-3 (µg/L) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0.0792	0.102	0.1192	20230413.A13.3L
Dissolved Antimony	0.0005	mg/L	0.0078	0.0132	0.0152	20230413.A13.3L
Dissolved Arsenic	0.001	mg/L	0.0075	0.0112	0.0124	20230413.A13.3L
Dissolved Barium	0.001	mg/L	0.0064	0.0081	0.0097	20230413.A13.3L
Dissolved Beryllium	0.0005	mg/L	0.001	0.00221	0.0029	20230413.A13.3L
Dissolved Boron	0.002	mg/L	0.076	0.0989	0.113	20230413.A13.3L
Dissolved Cadmium	0.0001	mg/L	0.0015	0.00196	0.0024	20230413.A13.3L
Dissolved Calcium	0.05	mg/L	0.273	0.679	0.664	20230413.A13.3L
Dissolved Chromium	0.001	mg/L	0.0094	0.0135	0.0166	20230413.A13.3L
Dissolved Cobalt	0.0001	mg/L	0.008	0.0114	0.0122	20230413.A13.3L
Dissolved Copper	0.001	mg/L	0.0123	0.0169	0.02	20230413.A13.3L
Dissolved Lead	0.0001	mg/L	0.00258	0.00389	0.00538	20230413.A13.3L
Dissolved Magnesium	0.004	mg/L	0.041	0.0584	0.071	20230413.A13.3L
Dissolved Manganese	0.001	mg/L	0.0047	0.00607	0.0073	20230413.A13.3L
Dissolved Molybdenum	0.001	mg/L	0.01746	0.0225	0.02644	20230413.A13.3L
Dissolved Nickel	0.001	mg/L	0.0154	0.0205	0.0241	20230413.A13.3L
Dissolved Potassium	0.1	mg/L	0.323	0.453	0.497	20230413.A13.3L
Dissolved Selenium	0.001	mg/L	0.0461	0.0633	0.0708	20230413.A13.3L
Dissolved Sodium	0.1	mg/L	0.145	0.267	0.345	20230413.A13.3L
Dissolved Strontium	0.001	mg/L	0.106	0.145	0.17	20230413.A13.3L
Dissolved Thallium	0.0001	mg/L	0.004678	0.00578	0.007122	20230413.A13.3L
Dissolved Uranium	0.001	mg/L	0.0036	0.0046	0.00687	20230413.A13.3L
Dissolved Vanadium	0.001	mg/L	0.01096	0.0144	0.01644	20230413.A13.3L
Dissolved Zinc	0.001	mg/L	0.0341	0.0459	0.0515	20230413.A13.3L

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	0	0	20	20230413.A13.3L
Dissolved Barium	N/A	%	0	0	20	20230413.A13.3L
Dissolved Calcium	N/A	%	0	2	20	20230413.A13.3L

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Dissolved Cobalt	N/A	%	0	0	20	20230413.A13.3L
Dissolved Magnesium	N/A	%	0	3.2	20	20230413.A13.3L
Dissolved Manganese	N/A	%	0	3.9	20	20230413.A13.3L
Dissolved Potassium	N/A	%	0	1.9	20	20230413.A13.3L
Dissolved Sodium	N/A	%	0	4.1	20	20230413.A13.3L
Dissolved Strontium	N/A	%	0	2.9	20	20230413.A13.3L

Sample Spike: LFSM-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	% Rec	70	107	130	20230413.A13.3L
Dissolved Antimony	N/A	% Rec	70	115	130	20230413.A13.3L
Dissolved Arsenic	N/A	% Rec	70	117	130	20230413.A13.3L
Dissolved Barium	N/A	% Rec	70	99.8	130	20230413.A13.3L
Dissolved Beryllium	N/A	% Rec	70	120	130	20230413.A13.3L
Dissolved Cadmium	N/A	% Rec	70	106	130	20230413.A13.3L
Dissolved Chromium	N/A	% Rec	70	107	130	20230413.A13.3L
Dissolved Cobalt	N/A	% Rec	70	107	130	20230413.A13.3L
Dissolved Copper	N/A	% Rec	70	108	130	20230413.A13.3L
Dissolved Iron	N/A	% Rec	70	106	130	20230413.A13.3L
Dissolved Lead	N/A	% Rec	70	98.1	130	20230413.A13.3L
Dissolved Manganese	N/A	% Rec	70	106	130	20230413.A13.3L
Dissolved Molybdenum	N/A	% Rec	70	101	130	20230413.A13.3L
Dissolved Nickel	N/A	% Rec	70	105	130	20230413.A13.3L
Dissolved Selenium	N/A	% Rec	70	129	130	20230413.A13.3L
Dissolved Thallium	N/A	% Rec	70	97.8	130	20230413.A13.3L
Dissolved Vanadium	N/A	% Rec	70	107	130	20230413.A13.3L
Dissolved Zinc	N/A	% Rec	70	117	130	20230413.A13.3L

Metals (Total)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K

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Total Antimony	0.0005	mg/L	0	<0.0005	0.001	20230413.A13.2K
Total Arsenic	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Barium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Beryllium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Bismuth	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Boron	0.002	mg/L	0	0.00205	0.005	20230413.A13.2K
Total Cadmium	0.0001	mg/L	0	<0.0001	0.0003	20230413.A13.2K
Total Calcium	0.05	mg/L	0	<0.05	0.05	20230413.A13.2K
Total Cerium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Cesium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Chromium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Cobalt	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Copper	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Europium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Gallium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Iron	0.02	mg/L	0	<0.02	0.06	20230413.A13.2K
Total Lanthanum	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Lead	0.0005	mg/L	0	<0.0005	0.001	20230413.A13.2K
Total Lithium	0.005	mg/L	0	<0.005	0.005	20230413.A13.2K
Total Magnesium	0.004	mg/L	0	0.00427	0.012	20230413.A13.2K
Total Manganese	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230413.A13.2K
Total Molybdenum	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Nickel	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Niobium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Phosphorus	0.05	mg/L	0	<0.05	0.05	20230413.A13.2K
Total Potassium	0.1	mg/L	0	<0.1	0.1	20230413.A13.2K
Total Rubidium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Scandium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Selenium	0.0002	mg/L	0	<0.0002	0.001	20230413.A13.2K
Total Silicon	0.6	mg/L	0	<0.6	0.6	20230413.A13.2K

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Total Silver	0.0001	mg/L	0	0.000228	0.0003	20230413.A13.2K
Total Sodium	0.1	mg/L	0	<0.1	0.3	20230413.A13.2K
Total Strontium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Sulphur	0.8	mg/L	0	<0.8	0.8	20230413.A13.2K
Total Tellurium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Thallium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Thorium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Tin	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Titanium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Tungsten	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Uranium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Vanadium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Yttrium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Zinc	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K
Total Zirconium	0.001	mg/L	0	<0.001	0.001	20230413.A13.2K

Positive Control: EP-L-3 (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0.077	0.101	0.137	20230413.A13.2K
Total Antimony	0.0005	mg/L	0.0078	0.0121	0.0152	20230413.A13.2K
Total Arsenic	0.001	mg/L	0.0075	0.00887	0.0124	20230413.A13.2K
Total Barium	0.001	mg/L	0.0064	0.00791	0.0097	20230413.A13.2K
Total Beryllium	0.0005	mg/L	0.001	0.0018	0.0029	20230413.A13.2K
Total Boron	0.002	mg/L	0.076	0.105	0.113	20230413.A13.2K
Total Cadmium	0.0001	mg/L	0.0015	0.0018	0.0024	20230413.A13.2K
Total Calcium	0.05	mg/L	0.273	0.531	0.664	20230413.A13.2K
Total Chromium	0.001	mg/L	0.0094	0.0144	0.0166	20230413.A13.2K
Total Cobalt	0.0001	mg/L	0.008	0.0122	0.0122	20230413.A13.2K
Total Copper	0.001	mg/L	0.0123	0.0156	0.02	20230413.A13.2K
Total Lead	0.0005	mg/L	0.00258	0.00405	0.00538	20230413.A13.2K
Total Magnesium	0.004	mg/L	0.041	0.0623	0.071	20230413.A13.2K
Total Manganese	0.001	mg/L	0.0047	0.00692	0.0073	20230413.A13.2K

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Total Molybdenum	0.001	mg/L	0.01746	0.0222	0.02644	20230413.A13.2K
Total Nickel	0.001	mg/L	0.0154	0.0188	0.0241	20230413.A13.2K
Total Potassium	0.1	mg/L	0.323	0.364	0.497	20230413.A13.2K
Total Selenium	0.0005	mg/L	0.0461	0.0502	0.0708	20230413.A13.2K
Total Sodium	0.1	mg/L	0.145	0.217	0.345	20230413.A13.2K
Total Strontium	0.001	mg/L	0.106	0.141	0.17	20230413.A13.2K
Total Thallium	0.0001	mg/L	0.004678	0.00605	0.007122	20230413.A13.2K
Total Uranium	0.001	mg/L	0.0036	0.00544	0.00687	20230413.A13.2K
Total Vanadium	0.001	mg/L	0.01096	0.0172	0.01644	20230413.A13.2K
Total Zinc	0.001	mg/L	0.0341	0.0375	0.0515	20230413.A13.2K

Positive Control: LFB-7 (N 100 ug/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	80	101	120	20230413.A13.2K
Total Antimony	N/A	%	80	103	120	20230413.A13.2K
Total Arsenic	N/A	%	80	93.5	120	20230413.A13.2K
Total Barium	N/A	%	80	98.8	120	20230413.A13.2K
Total Beryllium	N/A	%	80	91.1	120	20230413.A13.2K
Total Boron	N/A	%	80	110	120	20230413.A13.2K
Total Cadmium	N/A	%	80	93.3	120	20230413.A13.2K
Total Calcium	N/A	%	80	95.2	120	20230413.A13.2K
Total Chromium	N/A	%	80	99.1	120	20230413.A13.2K
Total Cobalt	N/A	%	80	98.5	120	20230413.A13.2K
Total Copper	N/A	%	80	97.1	120	20230413.A13.2K
Total Iron	N/A	%	80	108	120	20230413.A13.2K
Total Lead	N/A	%	80	94.7	120	20230413.A13.2K
Total Magnesium	N/A	%	80	93.2	120	20230413.A13.2K
Total Manganese	N/A	%	80	103	120	20230413.A13.2K
Total Mercury	N/A	%	80	80.7	120	20230413.A13.2K
Total Molybdenum	N/A	%	80	98.5	120	20230413.A13.2K
Total Nickel	N/A	%	80	96.4	120	20230413.A13.2K
Total Phosphorus	N/A	%	80	104	120	20230413.A13.2K

Total Potassium	N/A	%	80	95.1	120	20230413.A13.2K
Total Selenium	N/A	%	80	88	120	20230413.A13.2K
Total Silicon	N/A	%	80	93.4	120	20230413.A13.2K
Total Sodium	N/A	%	80	90.7	120	20230413.A13.2K
Total Sulphur	N/A	%	80	78.5	120	20230413.A13.2K
Total Thallium	N/A	%	80	95.2	120	20230413.A13.2K
Total Uranium	N/A	%	80	109	120	20230413.A13.2K
Total Vanadium	N/A	%	80	107	120	20230413.A13.2K
Total Zinc	N/A	%	80	91.7	120	20230413.A13.2K

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	0	1.8	20	20230413.A13.2K
Total Barium	N/A	%	0	10	20	20230413.A13.2K
Total Calcium	N/A	%	0	16	20	20230413.A13.2K
Total Cobalt	N/A	%	0	3	20	20230413.A13.2K
Total Iron	N/A	%	0	0.8	20	20230413.A13.2K
Total Magnesium	N/A	%	0	4.6	20	20230413.A13.2K
Total Manganese	N/A	%	0	0.7	20	20230413.A13.2K
Total Potassium	N/A	%	0	7.2	20	20230413.A13.2K
Total Sodium	N/A	%	0	11.5	20	20230413.A13.2K
Total Strontium	N/A	%	0	7.1	20	20230413.A13.2K
Total Titanium	N/A	%	0	4.8	20	20230413.A13.2K

Sample Spike: LFSM-9 (N 100 ug/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	% Rec	70	103	130	20230413.A13.2K
Total Antimony	N/A	% Rec	70	102	130	20230413.A13.2K
Total Arsenic	N/A	% Rec	70	96.9	130	20230413.A13.2K
Total Barium	N/A	% Rec	70	99.9	130	20230413.A13.2K
Total Beryllium	N/A	% Rec	70	95.4	130	20230413.A13.2K
Total Cadmium	N/A	% Rec	70	95.2	130	20230413.A13.2K
Total Chromium	N/A	% Rec	70	111	130	20230413.A13.2K

Total Cobalt	N/A	% Rec	70	110	130	20230413.A13.2K
Total Copper	N/A	% Rec	70	96.7	130	20230413.A13.2K
Total Iron	N/A	% Rec	70	102	130	20230413.A13.2K
Total Lead	N/A	% Rec	70	93.2	130	20230413.A13.2K
Total Manganese	N/A	% Rec	70	99.7	130	20230413.A13.2K
Total Molybdenum	N/A	% Rec	70	98.7	130	20230413.A13.2K
Total Nickel	N/A	% Rec	70	97.3	130	20230413.A13.2K
Total Selenium	N/A	% Rec	70	96.3	130	20230413.A13.2K
Total Thallium	N/A	% Rec	70	95.2	130	20230413.A13.2K
Total Vanadium	N/A	% Rec	70	121	130	20230413.A13.2K
Total Zinc	N/A	% Rec	70	97.3	130	20230413.A13.2K

Oxygen Demand

Blank: Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chemical Oxygen Demand	5	mg/L	0	<5	15	20230413.TM-G.R4B

Blank: BOD Method Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
BOD (5 day)	0.5	mg/L	0	<0.5	0.5	20230413.A3D

Positive Control: Lab Control Sample (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
BOD (5 day)	100	mg/L	167.5	179	230	20230413.A3D

Positive Control: Lab Control Sample 100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chemical Oxygen Demand	N/A	mg/L	85	103	115	20230413.TM-G.R4B

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
BOD (5 day)	N/A	%	0	0	30	20230413.A3D

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IAMGOLD - Cote Project

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Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chemical Oxygen Demand	N/A	% Rec	70	77.1	130	20230413.TM-G.R4B

Radionuclides

Blank: LMB (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0	<0.005	0.005	20230421.TM-G.A129B

Positive Control: LFMB-1 (0.05) (71)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0578	0.06	20230421.TM-G.A129B

Positive Control: LFMB-2 (0.05) (72)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0581	0.06	20230421.TM-G.A129B

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	%	0	0.52	20	20230421.TM-G.A129B

Sample Spike: LFSM (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	% Rec	75	102	125	20230421.TM-G.A129B

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230413.TM-G.A27F

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Dissolved Solids	20	mg/L	0	30	50	20230413.TM-G.A27E

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Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Dissolved Solids	20	mg/L	225	230	275	20230413.TM-G.A27E
Total Suspended Solids	2	mg/L	212.5	264	287.5	20230413.TM-G.A27F

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Dissolved Solids	N/A	%	0	0	20	20230413.TM-G.A27E

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DM CONTROL	1867856	Reg. Hardness (A13)	20230413.TM-G.A13.1G	
DUP1	1867853	Acidity (A24.0)	20230413.A24.0D	
DUP1	1867853	Alkalinity (A1.0)	20230413.A1.0D	
DUP1	1867853	Ammonia Water (A42)	20230413.A42H	
DUP1	1867853	Anions Water (mg/L by IC) (A5)	20230414.A5G	
DUP1	1867853	BOD (A3)	20230413.A3D	
DUP1	1867853	COD (R4)	20230413.TM-G.R4B	
DUP1	1867853	Colour, Apparent (A26)	20230413.A26C	
DUP1	1867853	Colour, True (A26)	20230413.A26D	
DUP1	1867853	Conductivity of Water (A12)	20230413.A12D	
DUP1	1867853	DOC Water (A55.1)	20230414.A55.1C	
DUP1	1867853	Free CN Water (A43)	20230414.TM-KL.A43F1	
DUP1	1867853	ICPMS Dis. Water (A13.3)	20230413.A13.3L	20230413.A52Z
DUP1	1867853	ICPMS Tot. Water (A13)	20230413.A13.2K	20230413.A52ZA
DUP1	1867853	Mercury CV Water (S8)	20230414.TM-T.A8C	
DUP1	1867853	Mercury Dis. Water CV (S8)	20230414.TM-T.A8B	
DUP1	1867853	pH of Water (A2.0)	20230413.A2.0D	
DUP1	1867853	Ra226 (A129)	20230421.TM-G.A129B	
DUP1	1867853	Reg. Hardness (A13)	20230413.TM-G.A13.1F	
DUP1	1867853	TDS (A27)	20230413.TM-G.A27E	
DUP1	1867853	TOC Water (A55.2)	20230414.A55.2C	

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DUP1	1867853	Total CN Water (A43)	20230414.TM-KL.A43T1	
DUP1	1867853	TP Water (A23.2)	20230413.A23.2G	
DUP1	1867853	TSS (A27)	20230413.TM-G.A27F	
DUP1	1867853	Turbidity (A21)	20230413.TM-G.A21B	
DUP1	1867853r	TDS (A27)	20230413.TM-G.A27E	
DUP1	1867853r	TOC Water (A55.2)	20230414.A55.2C	
DUP1	1867853r	TP Water (A23.2)	20230413.A23.2G	
OSNSP	1867852	Acidity (A24.0)	20230413.A24.0D	
OSNSP	1867852	Alkalinity (A1.0)	20230413.A1.0D	
OSNSP	1867852	Ammonia Water (A42)	20230413.A42H	
OSNSP	1867852	Anions Water (mg/L by IC) (A5)	20230414.A5G	
OSNSP	1867852	BOD (A3)	20230413.A3D	
OSNSP	1867852	COD (R4)	20230413.TM-G.R4B	
OSNSP	1867852	Colour, Apparent (A26)	20230413.A26C	
OSNSP	1867852	Colour, True (A26)	20230413.A26D	
OSNSP	1867852	Conductivity of Water (A12)	20230413.A12D	
OSNSP	1867852	DOC Water (A55.1)	20230414.A55.1C	
OSNSP	1867852	Field pH (R112)	20230413.R112ZA	
OSNSP	1867852	Field Temp (R113)	20230413.R113ZA	
OSNSP	1867852	Free CN Water (A43)	20230414.TM-KL.A43F1	
OSNSP	1867852	ICPMS Dis. Water (A13.3)	20230413.A13.3L	20230413.A52Z
OSNSP	1867852	ICPMS Tot. Water (A13)	20230413.A13.2K	20230413.A52ZA
OSNSP	1867852	Mercury CV Water (S8)	20230414.TM-T.A8E	
OSNSP	1867852	Mercury Dis. Water CV (S8)	20230414.TM-T.A8D	
OSNSP	1867852	pH of Water (A2.0)	20230413.A2.0D	
OSNSP	1867852	Ra226 (A129)	20230421.TM-G.A129B	
OSNSP	1867852	Reg. Hardness (A13)	20230413.TM-G.A13.1F	
OSNSP	1867852	Single Conc DM (A63)	20230414.TM-G.A63B	
OSNSP	1867852	Single Conc RBT (A62)	20230414.TM-G.A62C	
OSNSP	1867852	TDS (A27)	20230413.TM-G.A27E	
OSNSP	1867852	TOC Water (A55.2)	20230414.A55.2C	

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OSNSP	1867852	Total CN Water (A43)	20230414.TM-KL.A43T1	
OSNSP	1867852	TP Water (A23.2)	20230413.A23.2G	
OSNSP	1867852	TSS (A27)	20230413.TM-G.A27F	
OSNSP	1867852	Turbidity (A21)	20230413.TM-G.A21B	
OSNSP	1867852	Un-Ionized NH3 (A42.4)	20230413.TM-G.A42.4B	
OSNSP	1867852r	Ammonia Water (A42)	20230413.A42H	
OSNSP	1867852r	Colour, Apparent (A26)	20230413.A26C	
OSNSP	1867852r	Colour, True (A26)	20230413.A26D	
OSNSP	1867852r	DOC Water (A55.1)	20230414.A55.1C	
OSNSP	1867852r	ICPMS Dis. Water (A13.3)	20230413.A13.3L	20230413.A52Z
OSNSP	1867852r	ICPMS Tot. Water (A13)	20230413.A13.2K	20230413.A52ZA

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 04/17/2023 16:52

Client:	Jean-Michel Giroux	Work Order Number:	495776
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Other
		Project #:	Compliance Thrice Weekly Sampling Const. Dewatering
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	SY JC
Date Order Received:	4/14/2023	Analysis Started:	4/14/2023
Arrival Temperature:	10 °C	Analysis Completed:	4/17/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP-U	1868296	Surface Water	None		4/13/2023	3:40 PM
WRC1 100m Upstream Bypass	1868297	Surface Water	None		4/13/2023	4:05 PM
WRC1 PI Bypass	1868298	Surface Water	None		4/13/2023	4:15 PM
WRC1 100m Downstream Bypass	1868299	Surface Water	None		4/13/2023	4:30 PM
WRC1 PI	1868300	Surface Water	None		4/13/2023	4:55 PM
WRC1 100m Downstream	1868301	Surface Water	None		4/13/2023	5:00 PM
CHLK PI	1868302	Surface Water	None		4/13/2023	5:20 PM
CHLK 100m Downstream	1868303	Surface Water	None		4/13/2023	5:40 PM
New Lake	1868304	Surface Water	None		4/13/2023	6:10 PM
OSNSP	1868305	Surface Water	None		4/13/2023	3:20 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test

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Method	Lab	Description	Reference
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

REPORT COMMENTS

***Report revised to change sample descriptions NSP-U to OSNSP-U and NSP to OSNSP as per client request. CI# 20653. 04/21/23 JC

Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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IAMGOLD - Cote Project

Work Order Number: 495776

WORK ORDER RESULTS

Sample Description	OSNSP - U		WRC1 100m Upstream Bypass		WRC1 PI Bypass		WRC1 100m Downstream Bypass		
Sample Date	4/13/2023 3:40 PM		4/13/2023 4:05 PM		4/13/2023 4:15 PM		4/13/2023 4:30 PM		
Lab ID	1868296		1868297		1868298		1868299		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.73	N/A	6.79	N/A	6.71	N/A	6.64	N/A	pH
Field Temp	4.5	N/A	2.4	N/A	1.8	N/A	1.8	N/A	°C

Sample Description	WRC1 PI		WRC1 100m Downstream		CHLK PI		CHLK 100m Downstream		
Sample Date	4/13/2023 4:55 PM		4/13/2023 5:00 PM		4/13/2023 5:20 PM		4/13/2023 5:40 PM		
Lab ID	1868300		1868301		1868302		1868303		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.47	N/A	7.08	N/A	6.35	N/A	6.62	N/A	pH
Field Temp	4.6	N/A	3.1	N/A	5.3	N/A	7.7	N/A	°C

Sample Description	New Lake		OSNSP		
Sample Date	4/13/2023 6:10 PM		4/13/2023 3:20 PM		
Lab ID	1868304		1868305		
Field Parameters	Result	MDL	Result	MDL	Units
Field pH	7.03	N/A	6.93	N/A	pH
Field Temp	4.1	N/A	4.4	N/A	°C

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Sample Description	OSNSP - U		WRC1 100m Upstream Bypass		WRC1 PI Bypass		WRC1 100m Downstream Bypass		
Sample Date	4/13/2023 3:40 PM		4/13/2023 4:05 PM		4/13/2023 4:15 PM		4/13/2023 4:30 PM		
Lab ID	1868296		1868297		1868298		1868299		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	6.63	N/A	6.91	N/A	6.89	N/A	6.65	N/A	pH
Turbidity			5.71	0.06	11.70	0.06	15.70	0.06	NTU

Sample Description	WRC1 PI		WRC1 100m Downstream		CHLK PI		CHLK 100m Downstream		
Sample Date	4/13/2023 4:55 PM		4/13/2023 5:00 PM		4/13/2023 5:20 PM		4/13/2023 5:40 PM		
Lab ID	1868300		1868301		1868302		1868303		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	6.99	N/A	6.38	N/A	6.98	N/A	7	N/A	pH
Turbidity	17.00	0.06	3.36 [3.49]	0.06	29.80	0.06	22.60	0.06	NTU

Sample Description	New Lake		OSNSP		
Sample Date	4/13/2023 6:10 PM		4/13/2023 3:20 PM		
Lab ID	1868304		1868305		
General Chemistry	Result	MDL	Result	MDL	Units
pH	6.52	N/A	7.35	N/A	pH
Turbidity	1.40	0.06			NTU

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Sample Description	OSNSP - U		WRC1 100m Upstream Bypass		WRC1 PI Bypass		WRC1 100m Downstream Bypass		
Sample Date	4/13/2023 3:40 PM		4/13/2023 4:05 PM		4/13/2023 4:15 PM		4/13/2023 4:30 PM		
Lab ID	1868296		1868297		1868298		1868299		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	44.0	1.3	13.3	1.3	15.3	1.3	20.0	1.3	mg/L

Sample Description	WRC1 PI		WRC1 100m Downstream		CHLK PI		CHLK 100m Downstream		
Sample Date	4/13/2023 4:55 PM		4/13/2023 5:00 PM		4/13/2023 5:20 PM		4/13/2023 5:40 PM		
Lab ID	1868300		1868301		1868302		1868303		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	13.3	1.3	3.3	1.3	20	2	15.3	1.3	mg/L

Sample Description	New Lake		OSNSP		
Sample Date	4/13/2023 6:10 PM		4/13/2023 3:20 PM		
Lab ID	1868304		1868305		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	2.0	1.3	48	4	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495776

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	0.13	0.3	20230414.TM-G.A21C
Turbidity	0.1	NTU	0	0.14	0.3	20230417.TM-G.A21C

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	4.93	5.26	5.45	20230414.TM-G.A21C
Turbidity	0.1	NTU	4.93	5.29	5.45	20230417.TM-G.A21C

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	54.1	55.8	59.8	20230417.TM-G.A21C
Turbidity	0.1	NTU	54.1	56.1	59.8	20230414.TM-G.A21C

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	453	470	501	20230414.TM-G.A21C
Turbidity	0.1	NTU	453	470	501	20230417.TM-G.A21C

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	7.96	8.2	20230414.A2.0D
pH	N/A	pH	7.8	7.96	8.2	20230414.A2.0E

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	N/A	%	0	0.7	20	20230417.TM-G.A21C
Turbidity	N/A	%	0	3.8	20	20230414.TM-G.A21C

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Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0	0.2	20230414.A2.0D
pH	N/A	% Rec	0	0.01	0.2	20230414.A2.0E

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230414.TM-G.A27D

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	237	287.5	20230414.TM-G.A27D

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
CHLK 100m Downstream	1868303	Field pH (R112)	20230414.R112ZA	
CHLK 100m Downstream	1868303	Field Temp (R113)	20230414.R113ZA	
CHLK 100m Downstream	1868303	pH of Water (A2.0)	20230414.A2.0D	
CHLK 100m Downstream	1868303	TSS (A27)	20230414.TM-G.A27D	
CHLK 100m Downstream	1868303	Turbidity (A21)	20230414.TM-G.A21C	
CHLK PI	1868302	Field pH (R112)	20230414.R112ZA	
CHLK PI	1868302	Field Temp (R113)	20230414.R113ZA	
CHLK PI	1868302	pH of Water (A2.0)	20230414.A2.0D	
CHLK PI	1868302	TSS (A27)	20230414.TM-G.A27D	
CHLK PI	1868302	Turbidity (A21)	20230414.TM-G.A21C	
New Lake	1868304	Field pH (R112)	20230414.R112ZA	
New Lake	1868304	Field Temp (R113)	20230414.R113ZA	
New Lake	1868304	pH of Water (A2.0)	20230414.A2.0D	
New Lake	1868304	TSS (A27)	20230414.TM-G.A27D	
New Lake	1868304	Turbidity (A21)	20230414.TM-G.A21C	
OSNSP	1868305	Field pH (R112)	20230414.R112ZA	

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OSNSP	1868305	Field Temp (R113)	20230414.R113ZA	
OSNSP	1868305	pH of Water (A2.0)	20230414.A2.0D	
OSNSP	1868305	TSS (A27)	20230414.TM-G.A27D	
OSNSP	1868305r	Turbidity (A21)	20230417.TM-G.A21C	
OSNSP - U	1868296	Field pH (R112)	20230414.R112ZA	
OSNSP - U	1868296	Field Temp (R113)	20230414.R113ZA	
OSNSP - U	1868296	pH of Water (A2.0)	20230414.A2.0E	
OSNSP - U	1868296	TSS (A27)	20230414.TM-G.A27D	
WRC1 100m Downstream	1868301	Field pH (R112)	20230414.R112ZA	
WRC1 100m Downstream	1868301	Field Temp (R113)	20230414.R113ZA	
WRC1 100m Downstream	1868301	pH of Water (A2.0)	20230414.A2.0D	
WRC1 100m Downstream	1868301	TSS (A27)	20230414.TM-G.A27D	
WRC1 100m Downstream	1868301	Turbidity (A21)	20230414.TM-G.A21C	
WRC1 100m Downstream	1868301r	Turbidity (A21)	20230414.TM-G.A21C	
WRC1 100m Downstream Bypass	1868299	Field pH (R112)	20230414.R112ZA	
WRC1 100m Downstream Bypass	1868299	Field Temp (R113)	20230414.R113ZA	
WRC1 100m Downstream Bypass	1868299	pH of Water (A2.0)	20230414.A2.0D	
WRC1 100m Downstream Bypass	1868299	TSS (A27)	20230414.TM-G.A27D	
WRC1 100m Downstream Bypass	1868299	Turbidity (A21)	20230414.TM-G.A21C	
WRC1 100m Upstream Bypass	1868297	Field pH (R112)	20230414.R112ZA	
WRC1 100m Upstream Bypass	1868297	Field Temp (R113)	20230414.R113ZA	
WRC1 100m Upstream Bypass	1868297	pH of Water (A2.0)	20230414.A2.0D	
WRC1 100m Upstream Bypass	1868297	TSS (A27)	20230414.TM-G.A27D	
WRC1 100m Upstream Bypass	1868297	Turbidity (A21)	20230414.TM-G.A21C	
WRC1 PI	1868300	Field pH (R112)	20230414.R112ZA	
WRC1 PI	1868300	Field Temp (R113)	20230414.R113ZA	
WRC1 PI	1868300	pH of Water (A2.0)	20230414.A2.0D	
WRC1 PI	1868300	TSS (A27)	20230414.TM-G.A27D	
WRC1 PI	1868300	Turbidity (A21)	20230414.TM-G.A21C	
WRC1 PI Bypass	1868298	Field pH (R112)	20230414.R112ZA	
WRC1 PI Bypass	1868298	Field Temp (R113)	20230414.R113ZA	

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WRC1 PI Bypass	1868298	pH of Water (A2.0)	20230414.A2.0D	
WRC1 PI Bypass	1868298	TSS (A27)	20230414.TM-G.A27D	
WRC1 PI Bypass	1868298	Turbidity (A21)	20230414.TM-G.A21C	

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Client:	Jean-Michel Giroux	Work Order Number:	495900
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Other
		Project #:	Compliance Thrice Weekly Sampling Const. Dewatering
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JC SY SM
Date Order Received:	4/17/2023	Analysis Started:	4/17/2023
Arrival Temperature:	4 °C	Analysis Completed:	4/19/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP-U	1868754	Surface Water	None		4/15/2023	12:30 PM
WRC1 100m Upstream Bypass	1868755	Surface Water	None		4/15/2023	12:50 PM
WRC1 PI Bypass	1868756	Surface Water	None		4/15/2023	1:00 PM
WRC1 100m Downstream Bypass	1868757	Surface Water	None		4/15/2023	1:05 PM
OSNSP	1868758	Surface Water	None		4/15/2023	2:00 PM
WRC1 PI	1868759	Surface Water	None		4/14/2023	4:10 PM
WRC1 100m Downstream	1868760	Surface Water	None		4/14/2023	4:30 PM
CHLK PI	1868761	Surface Water	None		4/14/2023	4:45 PM
CHLK 100m Downstream	1868762	Surface Water	None		4/14/2023	4:55 PM
OSNSP	1868763	Surface Water	None		4/14/2023	2:45 PM
WRC1 100m Upstream Bypass	1868764	Surface Water	None		4/14/2023	3:30 PM
WRC1 PI Bypass	1868765	Surface Water	None		4/14/2023	3:40 PM
WRC1 100m Downstream Bypass	1868766	Surface Water	None		4/14/2023	3:50 PM
OSNSP-U	1868767	Surface Water	None		4/14/2023	3:05 PM

METHODS AND INSTRUMENTATION

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THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

REPORT COMMENTS

***Report revised to change NSP-U samples to OSNSP-U and NSP samples to OSNSP as per client request. CI# 20653.

Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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IAMGOLD - Cote Project

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WORK ORDER RESULTS

Sample Description	OSNSP - U		WRC1 100m Upstream Bypass		WRC1 PI Bypass		WRC1 100m Downstream Bypass		
Sample Date	4/15/2023 12:30 PM		4/15/2023 12:50 PM		4/15/2023 1:00 PM		4/15/2023 1:05 PM		
Lab ID	1868754		1868755		1868756		1868757		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.7	N/A	6.85	N/A	6.76	N/A	6.34	N/A	pH
Field Temp	4.7	N/A	2.4	N/A	2.1	N/A	2.9	N/A	°C

Sample Description	OSNSP		WRC1 PI		WRC1 100m Downstream		CHLK PI		
Sample Date	4/15/2023 2:00 PM		4/14/2023 4:10 PM		4/14/2023 4:30 PM		4/14/2023 4:45 PM		
Lab ID	1868758		1868759		1868760		1868761		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.85	N/A	6.5	N/A	6.69	N/A	6.42	N/A	pH
Field Temp	3.9	N/A	5.6	N/A	3.8	N/A	4.8	N/A	°C

Sample Description	CHLK 100m Downstream		OSNSP		WRC1 100m Upstream Bypass		WRC1 PI Bypass		
Sample Date	4/14/2023 4:55 PM		4/14/2023 2:45 PM		4/14/2023 3:30 PM		4/14/2023 3:40 PM		
Lab ID	1868762		1868763		1868764		1868765		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.65	N/A	7.01	N/A	7.02	N/A	6.74	N/A	pH
Field Temp	4.7	N/A	5.5	N/A	1.4	N/A	1.5	N/A	°C

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Sample Description	WRC1 100m Downstream Bypass		OSNSP - U		
Sample Date	4/14/2023 3:50 PM		4/14/2023 3:05 PM		
Lab ID	1868766		1868767		
Field Parameters	Result	MDL	Result	MDL	Units
Field pH	6.87	N/A	8	N/A	pH
Field Temp	0.7	N/A	1.7	N/A	°C

Sample Description	OSNSP - U		WRC1 100m Upstream Bypass		WRC1 PI Bypass		WRC1 100m Downstream Bypass		
Sample Date	4/15/2023 12:30 PM		4/15/2023 12:50 PM		4/15/2023 1:00 PM		4/15/2023 1:05 PM		
Lab ID	1868754		1868755		1868756		1868757		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	6.43	N/A	6.42	N/A	6.46	N/A	6.73	N/A	pH
Turbidity	1.89	0.06	2.61	0.06	2.51 [2.50]	0.06	6.22	0.06	NTU

Sample Description	OSNSP		WRC1 PI		WRC1 100m Downstream		CHLK PI		
Sample Date	4/15/2023 2:00 PM		4/14/2023 4:10 PM		4/14/2023 4:30 PM		4/14/2023 4:45 PM		
Lab ID	1868758		1868759		1868760		1868761		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	7.71	N/A	7.2	N/A	7.03	N/A	7.14	N/A	pH
Turbidity	60.10	0.06	14.20	0.06	6.38 [6.40]	0.06	5.53	0.06	NTU

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Sample Description	CHLK 100m Downstream		OSNSP		WRC1 100m Upstream Bypass		WRC1 PI Bypass		
Sample Date	4/14/2023 4:55 PM		4/14/2023 2:45 PM		4/14/2023 3:30 PM		4/14/2023 3:40 PM		
Lab ID	1868762		1868763		1868764		1868765		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	7.16	N/A	7.43	N/A	6.49	N/A	6.74	N/A	pH
Turbidity	6.62	0.06	81.00	0.06	2.35	0.06	4.93	0.06	NTU

Sample Description	WRC1 100m Downstream Bypass		OSNSP - U		
Sample Date	4/14/2023 3:50 PM		4/14/2023 3:05 PM		
Lab ID	1868766		1868767		
General Chemistry	Result	MDL	Result	MDL	Units
pH	6.72	N/A	6.48	N/A	pH
Turbidity	13.40	0.06	2.77 [2.80]	0.06	NTU

Sample Description	OSNSP - U		WRC1 100m Upstream Bypass		WRC1 PI Bypass		WRC1 100m Downstream Bypass		
Sample Date	4/15/2023 12:30 PM		4/15/2023 12:50 PM		4/15/2023 1:00 PM		4/15/2023 1:05 PM		
Lab ID	1868754		1868755		1868756		1868757		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	2.00	0.67	5.30	0.67	2.30	0.67	8.33	0.67	mg/L

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Sample Description	OSNSP		WRC1 PI		WRC1 100m Downstream		CHLK PI		
Sample Date	4/15/2023 2:00 PM		4/14/2023 4:10 PM		4/14/2023 4:30 PM		4/14/2023 4:45 PM		
Lab ID	1868758		1868759		1868760		1868761		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	38.7	1.3	11.0	1.3	4.0	1.3	4.0	1.3	mg/L

Sample Description	CHLK 100m Downstream		OSNSP		WRC1 100m Upstream Bypass		WRC1 PI Bypass		
Sample Date	4/14/2023 4:55 PM		4/14/2023 2:45 PM		4/14/2023 3:30 PM		4/14/2023 3:40 PM		
Lab ID	1868762		1868763		1868764		1868765		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	2.7	1.3	43.3	1.3	2.0	1.3	4.0	1.3	mg/L

Sample Description	WRC1 100m Downstream Bypass		OSNSP - U		
Sample Date	4/14/2023 3:50 PM		4/14/2023 3:05 PM		
Lab ID	1868766		1868767		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	11.0	1.3	5.3	1.3	mg/L

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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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IAMGOLD - Cote Project

Work Order Number: 495900

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	0.15	0.3	20230417.TM-G.A21E
Turbidity	0.1	NTU	0	0.16	0.3	20230417.TM-G.A21D
Turbidity	0.1	NTU	0	0.18	0.3	20230419.TM-G.A21C

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	4.93	5.23	5.45	20230417.TM-G.A21E
Turbidity	0.1	NTU	4.93	5.26	5.45	20230417.TM-G.A21D
Turbidity	0.1	NTU	4.93	5.26	5.45	20230419.TM-G.A21C

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	54.1	55.9	59.8	20230417.TM-G.A21D
Turbidity	0.1	NTU	54.1	55.9	59.8	20230417.TM-G.A21E
Turbidity	0.1	NTU	54.1	56	59.8	20230419.TM-G.A21C

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	453	<0.1	501	20230417.TM-G.A21E
Turbidity	0.1	NTU	453	470	501	20230417.TM-G.A21D
Turbidity	0.1	NTU	453	470	501	20230419.TM-G.A21C

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	7.94	8.2	20230418.A2.0E
pH	N/A	pH	7.8	7.95	8.2	20230418.A2.0D

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Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	N/A	%	0	0.3	20	20230419.TM-G.A21C
Turbidity	N/A	%	0	0.4	20	20230417.TM-G.A21D
Turbidity	N/A	%	0	1.1	20	20230417.TM-G.A21E

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0.03	0.2	20230418.A2.0D
pH	N/A	% Rec	0	0.04	0.2	20230418.A2.0E

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230417.TM-G.A27E
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230417.TM-G.A27G

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	212.5	255	287.5	20230417.TM-G.A27G
Total Suspended Solids	2	mg/L	212.5	229	287.5	20230417.TM-G.A27E

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
CHLK 100m Downstream	1868762	Field pH (R112)	20230417.R112ZA	
CHLK 100m Downstream	1868762	Field Temp (R113)	20230417.R113ZA	
CHLK 100m Downstream	1868762	pH of Water (A2.0)	20230418.A2.0E	
CHLK 100m Downstream	1868762	TSS (A27)	20230417.TM-G.A27G	
CHLK 100m Downstream	1868762	Turbidity (A21)	20230417.TM-G.A21E	
CHLK 100m Downstream	1868762	Turbidity (A21)	20230419.TM-G.A21C	
CHLK PI	1868761	Field pH (R112)	20230417.R112ZA	
CHLK PI	1868761	Field Temp (R113)	20230417.R113ZA	
CHLK PI	1868761	pH of Water (A2.0)	20230418.A2.0E	

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CHLK PI	1868761	TSS (A27)	20230417.TM-G.A27G	
CHLK PI	1868761	Turbidity (A21)	20230417.TM-G.A21E	
CHLK PI	1868761	Turbidity (A21)	20230419.TM-G.A21C	
OSNSP	1868758	Field pH (R112)	20230417.R112ZA	
OSNSP	1868758	Field Temp (R113)	20230417.R113ZA	
OSNSP	1868758	pH of Water (A2.0)	20230418.A2.0D	
OSNSP	1868758	TSS (A27)	20230417.TM-G.A27G	
OSNSP	1868758	Turbidity (A21)	20230417.TM-G.A21E	
OSNSP	1868758	Turbidity (A21)	20230419.TM-G.A21C	
OSNSP	1868763	Field pH (R112)	20230417.R112ZA	
OSNSP	1868763	Field Temp (R113)	20230417.R113ZA	
OSNSP	1868763	pH of Water (A2.0)	20230418.A2.0D	
OSNSP	1868763	TSS (A27)	20230417.TM-G.A27G	
OSNSP	1868763	Turbidity (A21)	20230419.TM-G.A21C	
OSNSP - U	1868754	Field pH (R112)	20230417.R112ZA	
OSNSP - U	1868754	Field Temp (R113)	20230417.R113ZA	
OSNSP - U	1868754	pH of Water (A2.0)	20230418.A2.0E	
OSNSP - U	1868754	TSS (A27)	20230417.TM-G.A27E	
OSNSP - U	1868754	Turbidity (A21)	20230417.TM-G.A21D	
OSNSP - U	1868767	Field pH (R112)	20230417.R112ZA	
OSNSP - U	1868767	Field Temp (R113)	20230417.R113ZA	
OSNSP - U	1868767	pH of Water (A2.0)	20230418.A2.0E	
OSNSP - U	1868767	TSS (A27)	20230417.TM-G.A27G	
OSNSP - U	1868767	Turbidity (A21)	20230417.TM-G.A21E	
OSNSP - U	1868767r	Turbidity (A21)	20230417.TM-G.A21E	
WRC1 100m Downstream	1868760	Field pH (R112)	20230417.R112ZA	
WRC1 100m Downstream	1868760	Field Temp (R113)	20230417.R113ZA	
WRC1 100m Downstream	1868760	pH of Water (A2.0)	20230418.A2.0E	
WRC1 100m Downstream	1868760	TSS (A27)	20230417.TM-G.A27G	
WRC1 100m Downstream	1868760	Turbidity (A21)	20230417.TM-G.A21E	
WRC1 100m Downstream	1868760	Turbidity (A21)	20230419.TM-G.A21C	

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WRC1 100m Downstream	1868760r	Turbidity (A21)	20230419.TM-G.A21C	
WRC1 100m Downstream Bypass	1868757	Field pH (R112)	20230417.R112ZA	
WRC1 100m Downstream Bypass	1868757	Field Temp (R113)	20230417.R113ZA	
WRC1 100m Downstream Bypass	1868757	pH of Water (A2.0)	20230418.A2.0D	
WRC1 100m Downstream Bypass	1868757	TSS (A27)	20230417.TM-G.A27E	
WRC1 100m Downstream Bypass	1868757	Turbidity (A21)	20230417.TM-G.A21D	
WRC1 100m Downstream Bypass	1868766	Field pH (R112)	20230417.R112ZA	
WRC1 100m Downstream Bypass	1868766	Field Temp (R113)	20230417.R113ZA	
WRC1 100m Downstream Bypass	1868766	pH of Water (A2.0)	20230418.A2.0E	
WRC1 100m Downstream Bypass	1868766	TSS (A27)	20230417.TM-G.A27G	
WRC1 100m Downstream Bypass	1868766	Turbidity (A21)	20230417.TM-G.A21E	
WRC1 100m Upstream Bypass	1868755	Field pH (R112)	20230417.R112ZA	
WRC1 100m Upstream Bypass	1868755	Field Temp (R113)	20230417.R113ZA	
WRC1 100m Upstream Bypass	1868755	pH of Water (A2.0)	20230418.A2.0E	
WRC1 100m Upstream Bypass	1868755	TSS (A27)	20230417.TM-G.A27E	
WRC1 100m Upstream Bypass	1868755	Turbidity (A21)	20230417.TM-G.A21D	
WRC1 100m Upstream Bypass	1868764	Field pH (R112)	20230417.R112ZA	
WRC1 100m Upstream Bypass	1868764	Field Temp (R113)	20230417.R113ZA	
WRC1 100m Upstream Bypass	1868764	pH of Water (A2.0)	20230418.A2.0E	
WRC1 100m Upstream Bypass	1868764	TSS (A27)	20230417.TM-G.A27G	
WRC1 100m Upstream Bypass	1868764	Turbidity (A21)	20230417.TM-G.A21E	
WRC1 PI	1868759	Field pH (R112)	20230417.R112ZA	
WRC1 PI	1868759	Field Temp (R113)	20230417.R113ZA	
WRC1 PI	1868759	pH of Water (A2.0)	20230418.A2.0E	
WRC1 PI	1868759	TSS (A27)	20230417.TM-G.A27G	
WRC1 PI	1868759	Turbidity (A21)	20230417.TM-G.A21E	
WRC1 PI	1868759	Turbidity (A21)	20230419.TM-G.A21C	
WRC1 PI Bypass	1868756	Field pH (R112)	20230417.R112ZA	
WRC1 PI Bypass	1868756	Field Temp (R113)	20230417.R113ZA	
WRC1 PI Bypass	1868756	pH of Water (A2.0)	20230418.A2.0E	
WRC1 PI Bypass	1868756	TSS (A27)	20230417.TM-G.A27E	

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WRC1 PI Bypass	1868756	Turbidity (A21)	20230417.TM-G.A21D	
WRC1 PI Bypass	1868756r	Turbidity (A21)	20230417.TM-G.A21D	
WRC1 PI Bypass	1868765	Field pH (R112)	20230417.R112ZA	
WRC1 PI Bypass	1868765	Field Temp (R113)	20230417.R113ZA	
WRC1 PI Bypass	1868765	pH of Water (A2.0)	20230418.A2.0E	
WRC1 PI Bypass	1868765	TSS (A27)	20230417.TM-G.A27G	
WRC1 PI Bypass	1868765	Turbidity (A21)	20230417.TM-G.A21E	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	495893
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St	Regulation:	Other
	Sudbury, ON, P3E 5S8	Project #:	TMF Central Pond Monthly Water Sampling
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	SY
Date Order Received:	4/17/2023	Analysis Started:	4/17/2023
Arrival Temperature:	4 °C	Analysis Completed:	4/25/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1868715	Surface Water	Grab		4/16/2023	9:55 AM
DM CONTROL	1868716	Water	Grab			

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Garson	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Garson	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Anions Water (mg/L by IC) (A5)	Garson	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
BOD (A3)	Garson	Determination of Biochemical Oxygen Demand (BOD) 5-Day	Modified from SM-5210 B
COD (R4)	Garson	Determination of Chemical Oxygen Demand (COD)	Modified from APHA-5220D
Colour, Apparent (A26)	Garson	Determination of Colour by Spectrophotometry	Modified from SM 2120 C
Colour, True (A26)	Garson	Determination of Colour by Spectrophotometry	Modified from SM 2120 C
Conductivity of Water (A12)	Garson	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
DOC Water FF (A55.1)	Garson	Determination of Dissolved Organic Carbon in Water -> Field-Filtered	Modified from SM-5310 C

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Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13)	Garson	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
ICPMS Tot. Water (A13)	Garson	Determination of Total Metals in Water by ICP/MS with Digestion	Modified from SW846-6020A
Mercury CV Water (S8)	Timmins	Determination of Inorganic Mercury in Water by Cold Vapour	Modified from EPA 245.7
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Reg. Hardness (A13)	Garson	Determination of Total Hardness	Modified from APHA-2340B
Single Conc DM (A63)	Garson	Acute Lethality (100% Effluent) of Toxicants to Daphnia magna - 48 Hour Test	Modified from EPS 1/RM/14
Single Conc RBT (A62)	Garson	Acute Lethality (100% Effluent) of Toxicants to Rainbow Trout - 96 Hour Test	Modified from EPS 1/RM/13
TDS (A27)	Garson	Determination of Total Dissolved Solids in water by gravimetry	Modified from SM-2540
TOC Water (A55.2)	Garson	Determination of Total Organic Carbon in Water	Modified from SM-5310 C
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B
Un-Ionized NH3 (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

REPORT COMMENTS

Compliance

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IAMGOLD - Cote Project

Work Order Number: 495893

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 495893

WORK ORDER RESULTS

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Anions	Result	MDL	Units
Chloride	3.4	0.2	mg/L
Fluoride	<0.05	0.05	mg/L
Nitrate (as N)	0.66	0.05	mg/L
Nitrite (as N)	<0.05	0.05	mg/L
Sulphate	9.6	0.5	mg/L

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Colour	Result	MDL	Units
Apparent Colour	382.0 [386.0]	1.5	TCU
True Colour	15.2 [15.6]	1.5	TCU

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Field Parameters	Result	MDL	Units
Field pH	7.12	N/A	pH
Field Temp	6.2	N/A	°C

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Work Order Number: 495893

Sample Description	OSNSP		DM CONTROL		
Sample Date	4/16/2023 9:55 AM		[Not Provided]		
Lab ID	1868715		1868716		
General Chemistry	**Result**	**MDL**	**Result**	**MDL**	**Units**
Acidity	6	5			mg/L as CaCO3
Ammonia (as N)	0.53	0.01			mg/L
Conductivity	261	1			µS/cm
Dissolved Organic Carbon	12.5 [12.7]	0.4			mg/L
Free Cyanide	0.005	0.001			mg/L
M-Alkalinity (pH 4.5)	130	2			mg/L as CaCO3
pH	7.59	N/A			pH
Total Cyanide	0.003	0.002			mg/L
Total Hardness (as CaCO3) (Calc.)	131.0	0.1	128.0	0.1	mg/L
Total Organic Carbon	12.1 [12.4]	0.4			mg/L
Total Phosphorus (as P)	0.021	0.002			mg/L
Turbidity	85.20	0.06			NTU
Un-Ionized Ammonia (Calc.)	<0.002	0.002			mg/L

Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Mercury by CV	**Result**	**MDL**	**Units**
Mercury	<0.00001	0.00001	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495893

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Mercury by CV (Dissolved)	Result	MDL	Units
Dissolved Mercury	<0.00001	0.00001	mg/L

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	0.018 [0.018]	0.001	mg/L
Dissolved Antimony	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Arsenic	<0.001 [<0.001]	0.001	mg/L
Dissolved Barium	0.017 [0.017]	0.001	mg/L
Dissolved Beryllium	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Bismuth	<0.001 [<0.001]	0.001	mg/L
Dissolved Boron	<0.002 [<0.002]	0.002	mg/L
Dissolved Cadmium	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Calcium	40.00 [39.90]	0.05	mg/L
Dissolved Cerium	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	<0.001 [<0.001]	0.001	mg/L
Dissolved Chromium	0.002 [0.002]	0.001	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495893

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Dissolved)	Result	MDL	Units
Dissolved Cobalt	0.0024 [0.0024]	0.0001	mg/L
Dissolved Copper	0.004 [0.004]	0.001	mg/L
Dissolved Europium	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	<0.001 [<0.001]	0.001	mg/L
Dissolved Iron	0.05 [0.06]	0.02	mg/L
Dissolved Lanthanum	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Lithium	<0.005 [<0.005]	0.005	mg/L
Dissolved Magnesium	4.780 [4.820]	0.004	mg/L
Dissolved Manganese	1.16 [1.14]	0.01	mg/L
Dissolved Mercury	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Molybdenum	0.002 [0.002]	0.001	mg/L
Dissolved Nickel	0.001 [0.001]	0.001	mg/L
Dissolved Niobium	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	<0.05 [<0.05]	0.05	mg/L
Dissolved Potassium	2.0 [2.1]	0.1	mg/L
Dissolved Rhodium	<0.001 [<0.001]	0.001	mg/L

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Work Order Number: 495893

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Dissolved)	Result	MDL	Units
Dissolved Rubidium	0.004 [0.004]	0.001	mg/L
Dissolved Scandium	0.001 [0.001]	0.001	mg/L
Dissolved Selenium	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Silicon	2.3 [2.3]	0.6	mg/L
Dissolved Silver	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Sodium	3.0 [3.0]	0.1	mg/L
Dissolved Strontium	0.076 [0.075]	0.001	mg/L
Dissolved Sulfur	3.5 [3.3]	0.8	mg/L
Dissolved Tellurium	<0.001 [<0.001]	0.001	mg/L
Dissolved Thallium	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Thorium	<0.001 [<0.001]	0.001	mg/L
Dissolved Tin	<0.001 [<0.001]	0.001	mg/L
Dissolved Titanium	<0.001 [<0.001]	0.001	mg/L
Dissolved Tungsten	<0.001 [<0.001]	0.001	mg/L
Dissolved Uranium	0.001 [0.001]	0.001	mg/L
Dissolved Vanadium	<0.001 [<0.001]	0.001	mg/L
Dissolved Yttrium	<0.001 [<0.001]	0.001	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495893

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Dissolved)	Result	MDL	Units
Dissolved Zinc	0.002 [0.002]	0.001	mg/L
Dissolved Zirconium	<0.001 [<0.001]	0.001	mg/L

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Total)	Result	MDL	Units
Total Aluminum	1.84 [1.91]	0.01	mg/L
Total Antimony	<0.0005 [<0.0005]	0.0005	mg/L
Total Arsenic	0.001 [0.001]	0.001	mg/L
Total Barium	0.026 [0.027]	0.001	mg/L
Total Beryllium	<0.0005 [<0.0005]	0.0005	mg/L
Total Bismuth	<0.001 [<0.001]	0.001	mg/L
Total Boron	<0.002 [<0.002]	0.002	mg/L
Total Cadmium	0.00011 [0.00010]	0.00002	mg/L
Total Calcium	45.4 [46.2]	0.5	mg/L
Total Cerium	0.007 [0.008]	0.001	mg/L
Total Cesium	<0.001 [<0.001]	0.001	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495893

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Total)	Result	MDL	Units
Total Chromium	0.005 [0.006]	0.001	mg/L
Total Cobalt	0.0035 [0.0037]	0.0001	mg/L
Total Copper	0.012 [0.012]	0.001	mg/L
Total Europium	<0.001 [<0.001]	0.001	mg/L
Total Gallium	0.002 [0.002]	0.001	mg/L
Total Iron	3.3 [3.4]	0.2	mg/L
Total Lanthanum	0.003 [0.004]	0.001	mg/L
Total Lead	0.0009 [0.0010]	0.0001	mg/L
Total Lithium	<0.005 [<0.005]	0.005	mg/L
Total Magnesium	5.970 [6.200]	0.004	mg/L
Total Manganese	1.27 [1.28]	0.01	mg/L
Total Mercury	<0.0001 [<0.0001]	0.0001	mg/L
Total Molybdenum	0.002 [0.002]	0.001	mg/L
Total Nickel	0.005 [0.005]	0.001	mg/L
Total Niobium	<0.001 [<0.001]	0.001	mg/L
Total Phosphorus	<0.05 [<0.05]	0.05	mg/L
Total Potassium	2.4 [2.5]	0.1	mg/L

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IAMGOLD - Cote Project

Work Order Number: 495893

Sample Description	OSNSP
Sample Date	4/16/2023 9:55 AM
Lab ID	1868715

Metals (Total)	Result	MDL	Units
Total Rhodium	<0.001 [<0.001]	0.001	mg/L
Total Rubidium	0.005 [0.006]	0.001	mg/L
Total Scandium	0.003 [0.003]	0.001	mg/L
Total Selenium	0.0004 [0.0005]	0.0002	mg/L
Total Silicon	4.2 [4.6]	0.6	mg/L
Total Silver	<0.0001 [<0.0001]	0.0001	mg/L
Total Sodium	3.0 [3.0]	0.1	mg/L
Total Strontium	0.084 [0.087]	0.001	mg/L
Total Sulphur	7.2 [7.5]	0.8	mg/L
Total Tellurium	<0.001 [<0.001]	0.001	mg/L
Total Thallium	<0.0001 [<0.0001]	0.0001	mg/L
Total Thorium	<0.001 [<0.001]	0.001	mg/L
Total Tin	<0.001 [<0.001]	0.001	mg/L
Total Titanium	0.054 [0.062]	0.001	mg/L
Total Tungsten	<0.001 [<0.001]	0.001	mg/L
Total Uranium	0.002 [0.002]	0.001	mg/L
Total Vanadium	0.004 [0.004]	0.001	mg/L

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Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Metals (Total)	**Result**	**MDL**	**Units**
Total Yttrium	0.002 [0.002]	0.001	mg/L
Total Zinc	0.006 [0.006]	0.001	mg/L
Total Zirconium	0.003 [0.003]	0.001	mg/L

Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Oxygen Demand	**Result**	**MDL**	**Units**
BOD (5 day)	3.9	1	mg/L
Chemical Oxygen Demand	38 [38]	5	mg/L

Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Radionuclides	**Result**	**MDL**	**Units**
Radium-226	0.009	0.005	Bq/L

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Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Solids	**Result**	**MDL**	**Units**
Total Dissolved Solids	160	20	mg/L
Total Suspended Solids	45	2	mg/L

Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Toxicology - Single Concentration Daphnia magna	**Result**	**MDL**	**Units**
% Mortality at 100% Effluent (Calc.)	0	N/A	%

Sample Description	OSNSP		
Sample Date	4/16/2023 9:55 AM		
Lab ID	1868715		
Toxicology - Single Concentration RBT	**Result**	**MDL**	**Units**
% Mortality at 100% Effluent (Calc.)	0	N/A	%

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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

Anions

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	0.2	mg/L	0	<0.2	0.6	20230417.A5E
Fluoride	0.05	mg/L	0	<0.05	0.3	20230417.A5E
Nitrate (as N)	0.05	mg/L	0	<0.05	0.3	20230417.A5E
Nitrite (as N)	0.05	mg/L	0	<0.05	0.09	20230417.A5E
Sulphate	0.5	mg/L	0	<0.5	3	20230417.A5E

Positive Control: LFB-5 (20/10/1 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	% Rec	80	114	120	20230417.A5E
Fluoride	N/A	% Rec	80	95.3	120	20230417.A5E
Nitrate (as N)	N/A	% Rec	80	107	120	20230417.A5E
Nitrite (as N)	N/A	% Rec	80	109	120	20230417.A5E
Sulphate	N/A	% Rec	80	108	120	20230417.A5E

Positive Control: LFB-7 (100/50 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	% Rec	80	113	120	20230417.A5E
Fluoride	N/A	% Rec	80	101	120	20230417.A5E
Nitrate (as N)	N/A	% Rec	80	103	120	20230417.A5E
Nitrite (as N)	N/A	% Rec	80	89.7	120	20230417.A5E
Sulphate	N/A	% Rec	80	104	120	20230417.A5E

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	%	0	3.2	20	20230417.A5E
Sulphate	N/A	%	0	1.4	20	20230417.A5E

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Sample Spike: LFS-R (Spiked Sample) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chloride	N/A	% Rec	75	106	125	20230417.A5E
Fluoride	N/A	% Rec	75	106	125	20230417.A5E
Nitrate (as N)	N/A	% Rec	75	107	125	20230417.A5E
Nitrite (as N)	N/A	% Rec	75	92.1	125	20230417.A5E
Sulphate	N/A	% Rec	75	100	125	20230417.A5E

Colour

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Apparent Colour	1.5	TCU	0	1.89	4.5	20230417.A26D
True Colour	2	TCU	0	<2	4.5	20230417.A26C

Positive Control: LFB-7 (70 TCU) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Apparent Colour	1.5	TCU	63	71.5	77	20230417.A26D
True Colour	1.5	TCU	63	71.5	77	20230417.A26C

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Apparent Colour	N/A	%	0	1	20	20230417.A26D
True Colour	N/A	%	0	2.6	20	20230417.A26C

General Chemistry

Blank: LRB-6 (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0	<0.01	0.03	20230417.A42D

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Acidity	5	mg/L as CaCO3	0	<5	15	20230418.A24.0D
Conductivity	1	µS/cm	0	1.6	5	20230418.A12E

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Dissolved Organic Carbon	0.4	mg/L	0	0.412	1.2	20230418.A55.1B
Free Cyanide	0.001	mg/L	0	<0.001	0.003	20230418.TM-KL.A43F2
M-Alkalinity (pH 4.5)	2	mg/L as CaCO3	0	<2	6	20230419.A1.0B
Total Cyanide	0.002	mg/L	0	<0.002	0.006	20230418.TM-KL.A43T2
Total Organic Carbon	0.4	mg/L	0	<0.4	1.2	20230418.A55.2B
Turbidity	0.1	NTU	0	0.16	0.3	20230417.TM-G.A21D
Method Blank: Method Blank (6)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.00244	0.006	20230418.A23.2C
Positive Control: Gel-0to10 (5)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	4.93	5.26	5.45	20230417.TM-G.A21D
Positive Control: Gel-0to100 (7)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	54.1	55.9	59.8	20230417.TM-G.A21D
Positive Control: Gel-0to1000 (7)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	453	470	501	20230417.TM-G.A21D
Positive Control: Lab Control Sample .05 (7)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0404	0.06	20230418.A23.2C
Positive Control: Lab Control Sample .2 (7)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.18	0.214	0.22	20230418.A23.2C
Positive Control: LFB-3 (100 mg/L CaCO3) (3)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Acidity	5	mg/L as CaCO3	80	110	120	20230418.A24.0D

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Positive Control: LFB-4 (100 mg/L CaCO3) (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
M-Alkalinity (pH 4.5)	2	mg/L as CaCO3	80	100	120	20230419.A1.0B

Positive Control: LFB-5 (500 µS/cm) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Conductivity	1	µS/cm	475	509	525	20230418.A12E

Positive Control: LFB-7 (0.25 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0.2	0.207	0.3	20230417.A42D

Positive Control: LFB-7 (15 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	12.5	15.9	17.5	20230418.A55.1B
Total Organic Carbon	0.4	mg/L	12.5	15.7	17.5	20230418.A55.2B

Positive Control: LFRB-5 (0.250 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.213	0.25	0.288	20230418.TM-KL.A43F2
Total Cyanide	0.002	mg/L	0.213	0.279	0.288	20230418.TM-KL.A43T2

Positive Control: LFRB-7 (0.100 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.085	0.0972	0.115	20230418.TM-KL.A43F2
Total Cyanide	0.002	mg/L	0.085	0.113	0.115	20230418.TM-KL.A43T2

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	7.95	8.2	20230418.A2.0D

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Organic Carbon	N/A	%	0	1.6	15	20230418.A55.1B
Free Cyanide	N/A	%	0	0	20	20230418.TM-KL.A43F2
Total Organic Carbon	N/A	%	0	2.4	15	20230418.A55.2B

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Total Phosphorus (as P)	N/A	%	0	3.6	20	20230418.A23.2C
Turbidity	N/A	%	0	0.4	20	20230417.TM-G.A21D

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Conductivity	N/A	%	0	2	20	20230418.A12E
M-Alkalinity (pH 4.5)	N/A	%	0	0	20	20230419.A1.0B
pH	N/A	% Rec	0	0.03	0.2	20230418.A2.0D

Sample Spike: LFMS-9 (10 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Organic Carbon	N/A	% Rec	80	95.5	120	20230418.A55.1B

Sample Spike: LFS-9 (Sample Spike) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	% Rec	80	89.9	120	20230417.A42D

Sample Spike: LFSM-9 (0.100 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	N/A	% Rec	80	94	120	20230418.TM-KL.A43F2

Sample Spike: LFSM-9 (0.100 mg/L) (98)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	% Rec	80	91.7	120	20230418.TM-KL.A43T2

Sample Spike: LFSM-9 (10 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Organic Carbon	N/A	% Rec	80	101	120	20230418.A55.2B

Sample Spike: Matrix Spike (UCL 125, LCL 75, New) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	109	125	20230418.A23.2C

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Mercury by CV

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	2.25E-05	2.64e-005	2.75E-05	20230418.TM-T.A8C

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	9e-006	mg/L	9E-06	9.31e-006	1.1E-05	20230418.TM-T.A8C

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230418.TM-T.A8C

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	0.01	%	85	97.8	115	20230418.TM-T.A8C

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	2e-006	mg/L	3E-06	5.39e-006	7E-06	20230418.TM-T.A8C

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	N/A	% Rec	85	96.3	115	20230418.TM-T.A8C

Mercury by CV (Dissolved)

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	2.25E-05	2.58e-005	2.75E-05	20230418.TM-T.A8B

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	9E-06	9.54e-006	1.1E-05	20230418.TM-T.A8B

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Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230418.TM-T.A8B

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	%	85	92.1	115	20230418.TM-T.A8B

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	2e-006	mg/L	3E-06	5.04e-006	7E-06	20230418.TM-T.A8B

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	% Rec	85	95.9	115	20230418.TM-T.A8B

Metals (Dissolved)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Antimony	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Arsenic	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Barium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Beryllium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Bismuth	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Boron	0.002	mg/L	0	<0.002	0.005	20230418.A13.3B
Dissolved Cadmium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Calcium	0.05	mg/L	0	<0.05	0.05	20230418.A13.3B
Dissolved Cerium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Cesium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Chromium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Cobalt	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Copper	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B

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Dissolved Europium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Gallium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Iron	0.02	mg/L	0	<0.02	0.02	20230418.A13.3B
Dissolved Lanthanum	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Lead	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Lithium	0.005	mg/L	0	<0.005	0.005	20230418.A13.3B
Dissolved Magnesium	0.004	mg/L	0	<0.004	0.004	20230418.A13.3B
Dissolved Manganese	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230418.A13.3B
Dissolved Molybdenum	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Nickel	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Niobium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Phosphorus	0.05	mg/L	0	<0.05	0.05	20230418.A13.3B
Dissolved Potassium	0.1	mg/L	0	<0.1	0.1	20230418.A13.3B
Dissolved Rubidium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Scandium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Selenium	0.0002	mg/L	0	<0.0002	0.001	20230418.A13.3B
Dissolved Silicon	0.6	mg/L	0	<0.6	0.6	20230418.A13.3B
Dissolved Silver	0.0001	mg/L	0	0.000144	0.0001	20230418.A13.3B
Dissolved Sodium	0.1	mg/L	0	<0.1	0.3	20230418.A13.3B
Dissolved Strontium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Sulfur	0.8	mg/L	0	<0.8	0.8	20230418.A13.3B
Dissolved Tellurium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Thallium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Thorium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Tin	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Titanium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Tungsten	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Uranium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Vanadium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Yttrium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B

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Dissolved Zinc	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B
Dissolved Zirconium	0.001	mg/L	0	<0.001	0.001	20230418.A13.3B

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	80	100	120	20230418.A13.3B
Dissolved Antimony	N/A	%	80	111	120	20230418.A13.3B
Dissolved Arsenic	N/A	%	80	111	120	20230418.A13.3B
Dissolved Barium	N/A	%	80	102	120	20230418.A13.3B
Dissolved Beryllium	N/A	%	80	104	120	20230418.A13.3B
Dissolved Boron	N/A	%	80	103	120	20230418.A13.3B
Dissolved Cadmium	N/A	%	80	106	120	20230418.A13.3B
Dissolved Calcium	N/A	%	80	91.6	120	20230418.A13.3B
Dissolved Chromium	N/A	%	80	99.6	120	20230418.A13.3B
Dissolved Cobalt	N/A	%	80	99.2	120	20230418.A13.3B
Dissolved Copper	N/A	%	80	100	120	20230418.A13.3B
Dissolved Iron	N/A	%	80	104	120	20230418.A13.3B
Dissolved Lead	N/A	%	80	99.7	120	20230418.A13.3B
Dissolved Magnesium	N/A	%	80	88	120	20230418.A13.3B
Dissolved Manganese	N/A	%	80	102	120	20230418.A13.3B
Dissolved Mercury	N/A	%	80	83.2	120	20230418.A13.3B
Dissolved Molybdenum	N/A	%	80	98.2	120	20230418.A13.3B
Dissolved Nickel	N/A	%	80	99.2	120	20230418.A13.3B
Dissolved Phosphorus	N/A	%	80	111	120	20230418.A13.3B
Dissolved Potassium	N/A	%	80	89.8	120	20230418.A13.3B
Dissolved Selenium	N/A	%	80	115	120	20230418.A13.3B
Dissolved Silicon	N/A	%	80	86.7	120	20230418.A13.3B
Dissolved Sodium	N/A	%	80	85.5	120	20230418.A13.3B
Dissolved Sulfur	N/A	%	80	90.1	120	20230418.A13.3B
Dissolved Thallium	N/A	%	80	99.1	120	20230418.A13.3B
Dissolved Uranium	N/A	%	80	113	120	20230418.A13.3B
Dissolved Vanadium	N/A	%	80	113	120	20230418.A13.3B

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Dissolved Zinc	N/A	%	80	111	120	20230418.A13.3B

Reference Sample: CRM-12 EP-L-3 (µg/L) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0.0792	0.101	0.1192	20230418.A13.3B
Dissolved Antimony	0.0005	mg/L	0.0078	0.0129	0.0152	20230418.A13.3B
Dissolved Arsenic	0.001	mg/L	0.0075	0.0108	0.0124	20230418.A13.3B
Dissolved Barium	0.001	mg/L	0.0064	0.00816	0.0097	20230418.A13.3B
Dissolved Beryllium	0.0005	mg/L	0.001	0.00213	0.0029	20230418.A13.3B
Dissolved Boron	0.002	mg/L	0.076	0.104	0.113	20230418.A13.3B
Dissolved Cadmium	0.0001	mg/L	0.0015	0.0021	0.0024	20230418.A13.3B
Dissolved Calcium	0.05	mg/L	0.273	0.552	0.664	20230418.A13.3B
Dissolved Chromium	0.001	mg/L	0.0094	0.0149	0.0166	20230418.A13.3B
Dissolved Cobalt	0.0001	mg/L	0.008	0.0124	0.0122	20230418.A13.3B
Dissolved Copper	0.001	mg/L	0.0123	0.0166	0.02	20230418.A13.3B
Dissolved Lead	0.0001	mg/L	0.00258	0.00412	0.00538	20230418.A13.3B
Dissolved Magnesium	0.004	mg/L	0.041	0.0615	0.071	20230418.A13.3B
Dissolved Manganese	0.001	mg/L	0.0047	0.00701	0.0073	20230418.A13.3B
Dissolved Molybdenum	0.001	mg/L	0.01746	0.0221	0.02644	20230418.A13.3B
Dissolved Nickel	0.001	mg/L	0.0154	0.0201	0.0241	20230418.A13.3B
Dissolved Potassium	0.1	mg/L	0.323	0.362	0.497	20230418.A13.3B
Dissolved Selenium	0.001	mg/L	0.0461	0.0653	0.0708	20230418.A13.3B
Dissolved Sodium	0.1	mg/L	0.145	0.209	0.345	20230418.A13.3B
Dissolved Strontium	0.001	mg/L	0.106	0.143	0.17	20230418.A13.3B
Dissolved Thallium	0.0001	mg/L	0.004678	0.00613	0.007122	20230418.A13.3B
Dissolved Uranium	0.001	mg/L	0.0036	0.00544	0.00687	20230418.A13.3B
Dissolved Vanadium	0.001	mg/L	0.01096	0.0178	0.01644	20230418.A13.3B
Dissolved Zinc	0.001	mg/L	0.0341	0.0465	0.0515	20230418.A13.3B

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	0	5.4	20	20230418.A13.3B
Dissolved Barium	N/A	%	0	0	20	20230418.A13.3B

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Dissolved Calcium	N/A	%	0	0.3	20	20230418.A13.3B
Dissolved Cobalt	N/A	%	0	0	20	20230418.A13.3B
Dissolved Magnesium	N/A	%	0	0.8	20	20230418.A13.3B
Dissolved Manganese	N/A	%	0	1.7	20	20230418.A13.3B
Dissolved Potassium	N/A	%	0	1	20	20230418.A13.3B
Dissolved Sodium	N/A	%	0	0.7	20	20230418.A13.3B
Dissolved Strontium	N/A	%	0	1.3	20	20230418.A13.3B

Sample Spike: LFSM-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	% Rec	70	96.2	130	20230418.A13.3B
Dissolved Antimony	N/A	% Rec	70	112	130	20230418.A13.3B
Dissolved Arsenic	N/A	% Rec	70	117	130	20230418.A13.3B
Dissolved Barium	N/A	% Rec	70	104	130	20230418.A13.3B
Dissolved Beryllium	N/A	% Rec	70	112	130	20230418.A13.3B
Dissolved Cadmium	N/A	% Rec	70	110	130	20230418.A13.3B
Dissolved Chromium	N/A	% Rec	70	111	130	20230418.A13.3B
Dissolved Cobalt	N/A	% Rec	70	113	130	20230418.A13.3B
Dissolved Copper	N/A	% Rec	70	102	130	20230418.A13.3B
Dissolved Iron	N/A	% Rec	70	95	130	20230418.A13.3B
Dissolved Lead	N/A	% Rec	70	96.5	130	20230418.A13.3B
Dissolved Manganese	N/A	% Rec	70	98.5	130	20230418.A13.3B
Dissolved Molybdenum	N/A	% Rec	70	83.3	130	20230418.A13.3B
Dissolved Nickel	N/A	% Rec	70	103	130	20230418.A13.3B
Dissolved Selenium	N/A	% Rec	70	129	130	20230418.A13.3B
Dissolved Thallium	N/A	% Rec	70	99.2	130	20230418.A13.3B
Dissolved Vanadium	N/A	% Rec	70	124	130	20230418.A13.3B
Dissolved Zinc	N/A	% Rec	70	121	130	20230418.A13.3B

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Metals (Total)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Antimony	0.0005	mg/L	0	<0.0005	0.001	20230418.A13.2F
Total Arsenic	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Barium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Beryllium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Bismuth	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Boron	0.002	mg/L	0	<0.002	0.005	20230418.A13.2F
Total Cadmium	0.0001	mg/L	0	<0.0001	0.0003	20230418.A13.2F
Total Calcium	0.05	mg/L	0	<0.05	0.05	20230418.A13.2F
Total Cerium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Cesium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Chromium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Cobalt	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Copper	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Europium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Gallium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Iron	0.02	mg/L	0	<0.02	0.06	20230418.A13.2F
Total Lanthanum	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Lead	0.0005	mg/L	0	<0.0005	0.001	20230418.A13.2F
Total Lithium	0.005	mg/L	0	<0.005	0.005	20230418.A13.2F
Total Magnesium	0.004	mg/L	0	<0.004	0.012	20230418.A13.2F
Total Manganese	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230418.A13.2F
Total Molybdenum	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Nickel	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Niobium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Phosphorus	0.05	mg/L	0	<0.05	0.05	20230418.A13.2F
Total Potassium	0.1	mg/L	0	<0.1	0.1	20230418.A13.2F

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Total Rubidium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Scandium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Selenium	0.0002	mg/L	0	<0.0002	0.001	20230418.A13.2F
Total Silicon	0.6	mg/L	0	<0.6	0.6	20230418.A13.2F
Total Silver	0.0001	mg/L	0	<0.0001	0.0003	20230418.A13.2F
Total Sodium	0.1	mg/L	0	<0.1	0.3	20230418.A13.2F
Total Strontium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Sulphur	0.8	mg/L	0	<0.8	0.8	20230418.A13.2F
Total Tellurium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Thallium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Thorium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Tin	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Titanium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Tungsten	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Uranium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Vanadium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Yttrium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Zinc	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F
Total Zirconium	0.001	mg/L	0	<0.001	0.001	20230418.A13.2F

Positive Control: EP-L-3 (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0.077	0.114	0.137	20230418.A13.2F
Total Antimony	0.0005	mg/L	0.0078	0.0123	0.0152	20230418.A13.2F
Total Arsenic	0.001	mg/L	0.0075	0.00957	0.0124	20230418.A13.2F
Total Barium	0.001	mg/L	0.0064	0.00823	0.0097	20230418.A13.2F
Total Beryllium	0.0005	mg/L	0.001	0.00188	0.0029	20230418.A13.2F
Total Boron	0.002	mg/L	0.076	0.117	0.113	20230418.A13.2F
Total Cadmium	0.0001	mg/L	0.0015	0.0019	0.0024	20230418.A13.2F
Total Calcium	0.05	mg/L	0.273	0.588	0.664	20230418.A13.2F
Total Chromium	0.001	mg/L	0.0094	0.016	0.0166	20230418.A13.2F
Total Cobalt	0.0001	mg/L	0.008	0.0125	0.0122	20230418.A13.2F

Total Copper	0.001	mg/L	0.0123	0.0171	0.02	20230418.A13.2F
Total Lead	0.0005	mg/L	0.00258	0.00411	0.00538	20230418.A13.2F
Total Magnesium	0.004	mg/L	0.041	0.067	0.071	20230418.A13.2F
Total Manganese	0.001	mg/L	0.0047	0.00739	0.0073	20230418.A13.2F
Total Molybdenum	0.001	mg/L	0.01746	0.0229	0.02644	20230418.A13.2F
Total Nickel	0.001	mg/L	0.0154	0.0203	0.0241	20230418.A13.2F
Total Potassium	0.1	mg/L	0.323	0.402	0.497	20230418.A13.2F
Total Selenium	0.0005	mg/L	0.0461	0.0539	0.0708	20230418.A13.2F
Total Sodium	0.1	mg/L	0.145	0.243	0.345	20230418.A13.2F
Total Strontium	0.001	mg/L	0.106	0.148	0.17	20230418.A13.2F
Total Thallium	0.0001	mg/L	0.004678	0.00612	0.007122	20230418.A13.2F
Total Uranium	0.001	mg/L	0.0036	0.00532	0.00687	20230418.A13.2F
Total Vanadium	0.001	mg/L	0.01096	0.0155	0.01644	20230418.A13.2F
Total Zinc	0.001	mg/L	0.0341	0.0399	0.0515	20230418.A13.2F

Positive Control: LFB-7 (N 100 ug/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	80	113	120	20230418.A13.2F
Total Antimony	N/A	%	80	106	120	20230418.A13.2F
Total Arsenic	N/A	%	80	100	120	20230418.A13.2F
Total Barium	N/A	%	80	103	120	20230418.A13.2F
Total Beryllium	N/A	%	80	96.5	120	20230418.A13.2F
Total Boron	N/A	%	80	124	120	20230418.A13.2F
Total Cadmium	N/A	%	80	97.9	120	20230418.A13.2F
Total Calcium	N/A	%	80	99.3	120	20230418.A13.2F
Total Chromium	N/A	%	80	106	120	20230418.A13.2F
Total Cobalt	N/A	%	80	103	120	20230418.A13.2F
Total Copper	N/A	%	80	104	120	20230418.A13.2F
Total Iron	N/A	%	80	120	120	20230418.A13.2F
Total Lead	N/A	%	80	99.7	120	20230418.A13.2F
Total Magnesium	N/A	%	80	101	120	20230418.A13.2F
Total Manganese	N/A	%	80	109	120	20230418.A13.2F

Total Mercury	N/A	%	80	83.3	120	20230418.A13.2F
Total Molybdenum	N/A	%	80	102	120	20230418.A13.2F
Total Nickel	N/A	%	80	104	120	20230418.A13.2F
Total Phosphorus	N/A	%	80	114	120	20230418.A13.2F
Total Potassium	N/A	%	80	100	120	20230418.A13.2F
Total Selenium	N/A	%	80	92.5	120	20230418.A13.2F
Total Silicon	N/A	%	80	100	120	20230418.A13.2F
Total Sodium	N/A	%	80	97	120	20230418.A13.2F
Total Sulphur	N/A	%	80	115	120	20230418.A13.2F
Total Thallium	N/A	%	80	100	120	20230418.A13.2F
Total Uranium	N/A	%	80	110	120	20230418.A13.2F
Total Vanadium	N/A	%	80	99.2	120	20230418.A13.2F
Total Zinc	N/A	%	80	96.3	120	20230418.A13.2F

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	0	3.7	20	20230418.A13.2F
Total Barium	N/A	%	0	3.8	20	20230418.A13.2F
Total Calcium	N/A	%	0	1.7	20	20230418.A13.2F
Total Cobalt	N/A	%	0	5.6	20	20230418.A13.2F
Total Copper	N/A	%	0	0	20	20230418.A13.2F
Total Iron	N/A	%	0	3.6	20	20230418.A13.2F
Total Magnesium	N/A	%	0	3.8	20	20230418.A13.2F
Total Manganese	N/A	%	0	0.8	20	20230418.A13.2F
Total Potassium	N/A	%	0	3.3	20	20230418.A13.2F
Total Sodium	N/A	%	0	2.3	20	20230418.A13.2F
Total Strontium	N/A	%	0	3.5	20	20230418.A13.2F
Total Titanium	N/A	%	0	13.8	20	20230418.A13.2F

Sample Spike: LFSM-9 (N 100 ug/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	% Rec	70	126	130	20230418.A13.2F
Total Antimony	N/A	% Rec	70	104	130	20230418.A13.2F

Total Arsenic	N/A	% Rec	70	101	130	20230418.A13.2F
Total Barium	N/A	% Rec	70	104	130	20230418.A13.2F
Total Beryllium	N/A	% Rec	70	98.8	130	20230418.A13.2F
Total Cadmium	N/A	% Rec	70	98.2	130	20230418.A13.2F
Total Chromium	N/A	% Rec	70	122	130	20230418.A13.2F
Total Cobalt	N/A	% Rec	70	114	130	20230418.A13.2F
Total Copper	N/A	% Rec	70	103	130	20230418.A13.2F
Total Iron	N/A	% Rec	70	122	130	20230418.A13.2F
Total Lead	N/A	% Rec	70	100	130	20230418.A13.2F
Total Manganese	N/A	% Rec	70	100	130	20230418.A13.2F
Total Molybdenum	N/A	% Rec	70	101	130	20230418.A13.2F
Total Nickel	N/A	% Rec	70	105	130	20230418.A13.2F
Total Selenium	N/A	% Rec	70	96.5	130	20230418.A13.2F
Total Thallium	N/A	% Rec	70	101	130	20230418.A13.2F
Total Vanadium	N/A	% Rec	70	112	130	20230418.A13.2F
Total Zinc	N/A	% Rec	70	101	130	20230418.A13.2F

Oxygen Demand

Blank: Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chemical Oxygen Demand	5	mg/L	0	<5	15	20230418.TM-G.R4B

Blank: BOD Method Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
BOD (5 day)	0.5	mg/L	0	<0.5	0.5	20230417.A3B

Positive Control: Lab Control Sample (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
BOD (5 day)	100	mg/L	167.5	194	230	20230417.A3B

Positive Control: Lab Control Sample 750 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chemical Oxygen Demand	N/A	mg/L	637.5	650	862.5	20230418.TM-G.R4B

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Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
BOD (5 day)	N/A	%	0	0	30	20230417.A3B

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Chemical Oxygen Demand	N/A	% Rec	70	117	130	20230418.TM-G.R4B

Radionuclides

Blank: LMB (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0	<0.005	0.005	20230425.TM-G.A129B

Positive Control: LFMB-1 (0.05) (71)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0586	0.06	20230425.TM-G.A129B

Positive Control: LFMB-2 (0.05) (72)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0584	0.06	20230425.TM-G.A129B

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	%	0	0.34	20	20230425.TM-G.A129B

Sample Spike: LFSM (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	% Rec	75	124	125	20230425.TM-G.A129B

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230417.TM-G.A27D

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 495893

Method Blank: LRB-6 (Blank) (6)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Dissolved Solids	20	mg/L	0	40	50	20230417.TM-G.A27F

Positive Control: LFB-7 (250 mg/L) (7)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Dissolved Solids	20	mg/L	225	240	275	20230417.TM-G.A27F
Total Suspended Solids	2	mg/L	212.5	265	287.5	20230417.TM-G.A27D

Sample Replicate: % RPD (8)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	N/A	%	0	0	20	20230417.TM-G.A27D

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DM CONTROL	1868716	Reg. Hardness (A13)	20230418.TM-G.A13.1D	
OSNSP	1868715	Acidity (A24.0)	20230418.A24.0D	
OSNSP	1868715	Alkalinity (A1.0)	20230419.A1.0B	
OSNSP	1868715	Ammonia Water (A42)	20230417.A42D	
OSNSP	1868715	Anions Water (mg/L by IC) (A5)	20230417.A5E	
OSNSP	1868715	BOD (A3)	20230417.A3B	
OSNSP	1868715	COD (R4)	20230418.TM-G.R4B	
OSNSP	1868715	Colour, Apparent (A26)	20230417.A26D	
OSNSP	1868715	Colour, True (A26)	20230417.A26C	
OSNSP	1868715	Conductivity of Water (A12)	20230418.A12E	
OSNSP	1868715	DOC Water (A55.1)	20230418.A55.1B	
OSNSP	1868715	Field pH (R112)	20230417.R112W	
OSNSP	1868715	Field Temp (R113)	20230417.R113X	
OSNSP	1868715	Free CN Water (A43)	20230418.TM-KL.A43F2	
OSNSP	1868715	ICPMS Dis. Water (A13)	20230418.A13.3B	20230417.A52ZA
OSNSP	1868715	ICPMS Tot. Water (A13)	20230418.A13.2F	20230417.A52ZB
OSNSP	1868715	Mercury CV Water (S8)	20230418.TM-T.A8C	
OSNSP	1868715	Mercury Dis. Water CV (S8)	20230418.TM-T.A8B	

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IAMGOLD - Cote Project

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OSNSP	1868715	pH of Water (A2.0)	20230418.A2.0D	
OSNSP	1868715	Ra226 (A129)	20230425.TM-G.A129B	
OSNSP	1868715	Reg. Hardness (A13)	20230418.TM-G.A13.1C	
OSNSP	1868715	Single Conc DM (A63)	20230418.TM-G.A63B	
OSNSP	1868715	Single Conc RBT (A62)	20230418.TM-G.A62B	
OSNSP	1868715	TDS (A27)	20230417.TM-G.A27F	
OSNSP	1868715	TOC Water (A55.2)	20230418.A55.2B	
OSNSP	1868715	Total CN Water (A43)	20230418.TM-KL.A43T2	
OSNSP	1868715	TP Water (A23.2)	20230418.A23.2C	
OSNSP	1868715	TSS (A27)	20230417.TM-G.A27D	
OSNSP	1868715	Turbidity (A21)	20230417.TM-G.A21D	
OSNSP	1868715	Un-Ionized NH3 (A42.4)	20230417.TM-G.A42.4B	
OSNSP	1868715r	COD (R4)	20230418.TM-G.R4B	
OSNSP	1868715r	Colour, Apparent (A26)	20230417.A26D	
OSNSP	1868715r	Colour, True (A26)	20230417.A26C	
OSNSP	1868715r	DOC Water (A55.1)	20230418.A55.1B	
OSNSP	1868715r	ICPMS Dis. Water (A13)	20230418.A13.3B	20230417.A52ZA
OSNSP	1868715r	ICPMS Tot. Water (A13)	20230418.A13.2F	20230417.A52ZB
OSNSP	1868715r	TOC Water (A55.2)	20230418.A55.2B	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	497120
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Other
		Project #:	Compliance Thrice Weekly Sampling Const. Dewatering
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JC SY SM
Date Order Received:	4/18/2023	Analysis Started:	4/18/2023
Arrival Temperature:	3 °C	Analysis Completed:	4/19/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1869423	Surface Water	None		4/17/2023	12:55 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

REPORT COMMENTS

Compliance
Sample moved from WO#496103 Sample name updated from NSP 04/27/23 TP CI#20678

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497120

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497120

WORK ORDER RESULTS

Sample Description	OSNSP
Sample Date	4/17/2023 12:55 PM
Lab ID	1869423

Field Parameters	Result	MDL	Units
Field pH	6.25	N/A	pH
Field Temp	4	N/A	°C

Sample Description	OSNSP
Sample Date	4/17/2023 12:55 PM
Lab ID	1869423

General Chemistry	Result	MDL	Units
pH	7.17	N/A	pH
Turbidity	74.80	0.06	NTU

Sample Description	OSNSP
Sample Date	4/17/2023 12:55 PM
Lab ID	1869423

Solids	Result	MDL	Units
Total Suspended Solids	45	2	mg/L

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497120

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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IAMGOLD - Cote Project

Work Order Number: 497120

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	0.11	0.3	20230418.TM-G.A21C

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	4.93	5.36	5.45	20230418.TM-G.A21C

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	54.1	55.9	59.8	20230418.TM-G.A21C

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	453	469	501	20230418.TM-G.A21C

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	8	8.2	20230419.A2.0B

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0.08	0.2	20230419.A2.0B

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230418.TM-G.A27E

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

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Positive Control: LFB-7 (250 mg/L) (7)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	237	287.5	20230418.TM-G.A27E

Sample Replicate: % RPD (8)						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	N/A	%	0	12.8	20	20230418.TM-G.A27E

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
OSNSP	1869423	Field pH (R112)	20230418.R112ZA	
OSNSP	1869423	Field Temp (R113)	20230418.R113ZA	
OSNSP	1869423	pH of Water (A2.0)	20230419.A2.0B	
OSNSP	1869423	TSS (A27)	20230418.TM-G.A27E	
OSNSP	1869423	Turbidity (A21)	20230418.TM-G.A21C	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	496507
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Cote - Daily, Dewatering and Bypass Pumping
		Project #:	Compliance Thrice Weekly Sampling Const. Dewatering
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	SF
Date Order Received:	4/21/2023	Analysis Started:	4/21/2023
Arrival Temperature:	4 °C	Analysis Completed:	4/24/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1870790	Surface Water	None	SAMPLE CONTAINED RESULT EXCEEDENCES.	4/20/2023	12:25 PM
OSNSP-D	1870791	Surface Water	None		4/20/2023	12:50 PM
OSNSP-U	1870792	Surface Water	None		4/20/2023	12:15 PM
OBSS-U	1870793	Surface Water	None		4/20/2023	10:20 AM
OBSS-OUT-FB	1870794	Surface Water	None		4/20/2023	11:25 AM
OBSS-D	1870795	Surface Water	None		4/20/2023	12:10 PM
OBSS-DD	1870796	Surface Water	None	SAMPLE CONTAINED RESULT EXCEEDENCES.	4/18/2023	11:50 AM
OBSS-U	1870797	Surface Water	None		4/18/2023	12:45 PM
OBSS-D	1870798	Surface Water	None		4/18/2023	1:10 PM
OBSS-OUT-FB	1870799	Surface Water	None		4/20/2023	12:50 PM
Dup1	1870800	Surface Water	None		4/20/2023	
Dup2	1870801	Surface Water	None		4/20/2023	
FB1	1870802	Surface Water	None		4/20/2023	
FB2	1870803	Surface Water	None		4/20/2023	

METHODS AND INSTRUMENTATION

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496507

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

REPORT COMMENTS

Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496507

WORK ORDER RESULTS

Sample Description	OSNSP		OSNSP - D		OSNSP - U		OBSS - U			
Sample Date	4/20/2023 12:25 PM		4/20/2023 12:50 PM		4/20/2023 12:15 PM		4/20/2023 10:20 AM			
Lab ID	1870790		1870791		1870792		1870793			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Field pH	6.28	N/A	6.9	N/A	7.72	N/A	6.28	N/A	pH	~
Field Temp	4.9	N/A	4.6	N/A	3.7	N/A	4.8	N/A	°C	~

Sample Description	OBSS - OUT - FB		OBSS - D		Dup1		Dup2			
Sample Date	4/20/2023 11:25 AM		4/20/2023 12:10 PM		4/20/2023		4/20/2023			
Lab ID	1870794		1870795		1870800		1870801			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Field pH	7.25	N/A	7.72	N/A	6.28	N/A	7.25	N/A	pH	~
Field Temp	9.3	N/A	3.7	N/A	4.9	N/A	9.3	N/A	°C	~

Sample Description	OSNSP		OSNSP - D		OSNSP - U		OBSS - U			
Sample Date	4/20/2023 12:25 PM		4/20/2023 12:50 PM		4/20/2023 12:15 PM		4/20/2023 10:20 AM			
Lab ID	1870790		1870791		1870792		1870793			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Turbidity	46.10	0.06	1.49	0.06	1.27	0.06	1.29	0.06	NTU	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496507

Sample Description	OBSS - OUT - FB		OBSS - D		OBSS - DD		OBSS - U			
Sample Date	4/20/2023 11:25 AM		4/20/2023 12:10 PM		4/18/2023 11:50 AM		4/18/2023 12:45 PM			
Lab ID	1870794		1870795		1870796		1870797			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Turbidity	33.50	0.06	1.11	0.06	36.00	0.06	4.25	0.06	NTU	~

Sample Description	OBSS - D		OBSS - OUT - FB		Dup1		Dup2			
Sample Date	4/18/2023 1:10 PM		4/20/2023 12:50 PM		4/20/2023		4/20/2023			
Lab ID	1870798		1870799		1870800		1870801			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Turbidity	1.58	0.06	42.90	0.06	42.80	0.06	32.70	0.06	NTU	~

Sample Description	FB1		FB2			
Sample Date	4/20/2023		4/20/2023			
Lab ID	1870802		1870803			
General Chemistry	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Turbidity	0.19 [0.20]	0.06	0.17	0.06	NTU	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496507

Sample Description	OSNSP		OSNSP - D		OSNSP - U		OBSS - U			
Sample Date	4/20/2023 12:25 PM		4/20/2023 12:50 PM		4/20/2023 12:15 PM		4/20/2023 10:20 AM			
Lab ID	1870790		1870791		1870792		1870793			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Total Suspended Solids	26.0	1.3	<0.67	0.67	<0.67	0.67	1.30	0.67	mg/L	25

Sample Description	OBSS - OUT - FB		OBSS - D		OBSS - DD		OBSS - U			
Sample Date	4/20/2023 11:25 AM		4/20/2023 12:10 PM		4/18/2023 11:50 AM		4/18/2023 12:45 PM			
Lab ID	1870794		1870795		1870796		1870797			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Total Suspended Solids	22.0	1.3	1.00	0.67	32.7	1.3	14.0	1.3	mg/L	25

Sample Description	OBSS - D		OBSS - OUT - FB		Dup1		Dup2			
Sample Date	4/18/2023 1:10 PM		4/20/2023 12:50 PM		4/20/2023		4/20/2023			
Lab ID	1870798		1870799		1870800		1870801			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Total Suspended Solids	<1.3 [<1.3]	1.3	23	2	21	2	17	2	mg/L	25

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496507

Sample Description	FB1		FB2			
Sample Date	4/20/2023		4/20/2023			
Lab ID	1870802		1870803			
Solids	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, Dewatering and Bypass Pumping
Total Suspended Solids	<0.67	0.67	<0.67	0.67	mg/L	25

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496507

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	0.12	0.3	20230421.TM-G.A21D

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	5.02	5.25	5.54	20230421.TM-G.A21D

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	23	55.8	58.6	20230421.TM-G.A21D

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	445	471	492	20230421.TM-G.A21D

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230421.TM-G.A27F
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230421.TM-G.A27G

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	219	287.5	20230421.TM-G.A27F
Total Suspended Solids	2	mg/L	212.5	240	287.5	20230421.TM-G.A27G

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
Dup1	1870800	Field pH (R112)	20230421.R112ZA	

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Dup1	1870800	Field Temp (R113)	20230421.R113ZA	
Dup1	1870800	TSS (A27)	20230421.TM-G.A27G	
Dup1	1870800	Turbidity (A21)	20230421.TM-G.A21D	
Dup2	1870801	Field pH (R112)	20230421.R112ZA	
Dup2	1870801	Field Temp (R113)	20230421.R113ZA	
Dup2	1870801	TSS (A27)	20230421.TM-G.A27G	
Dup2	1870801	Turbidity (A21)	20230421.TM-G.A21D	
FB1	1870802	TSS (A27)	20230421.TM-G.A27G	
FB1	1870802	Turbidity (A21)	20230421.TM-G.A21D	
FB1	1870802r	Turbidity (A21)	20230421.TM-G.A21D	
FB2	1870803	TSS (A27)	20230421.TM-G.A27G	
FB2	1870803	Turbidity (A21)	20230421.TM-G.A21D	
OBSS - D	1870795	Field pH (R112)	20230421.R112ZA	
OBSS - D	1870795	Field Temp (R113)	20230421.R113ZA	
OBSS - D	1870795	TSS (A27)	20230421.TM-G.A27F	
OBSS - D	1870795	Turbidity (A21)	20230421.TM-G.A21D	
OBSS - D	1870798	TSS (A27)	20230421.TM-G.A27F	
OBSS - D	1870798	Turbidity (A21)	20230421.TM-G.A21D	
OBSS - D	1870798r	TSS (A27)	20230421.TM-G.A27F	
OBSS - DD	1870796	TSS (A27)	20230421.TM-G.A27F	
OBSS - DD	1870796	Turbidity (A21)	20230421.TM-G.A21D	
OBSS - OUT - FB	1870794	Field pH (R112)	20230421.R112ZA	
OBSS - OUT - FB	1870794	Field Temp (R113)	20230421.R113ZA	
OBSS - OUT - FB	1870794	TSS (A27)	20230421.TM-G.A27F	
OBSS - OUT - FB	1870794	Turbidity (A21)	20230421.TM-G.A21D	
OBSS - OUT - FB	1870799	TSS (A27)	20230421.TM-G.A27G	
OBSS - OUT - FB	1870799	Turbidity (A21)	20230421.TM-G.A21D	
OBSS - U	1870793	Field pH (R112)	20230421.R112ZA	
OBSS - U	1870793	Field Temp (R113)	20230421.R113ZA	
OBSS - U	1870793	TSS (A27)	20230421.TM-G.A27F	
OBSS - U	1870793	Turbidity (A21)	20230421.TM-G.A21D	

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OBSS - U	1870797	TSS (A27)	20230421.TM-G.A27F	
OBSS - U	1870797	Turbidity (A21)	20230421.TM-G.A21D	
OSNSP	1870790	Field pH (R112)	20230421.R112ZA	
OSNSP	1870790	Field Temp (R113)	20230421.R113ZA	
OSNSP	1870790	TSS (A27)	20230421.TM-G.A27F	
OSNSP	1870790	Turbidity (A21)	20230421.TM-G.A21D	
OSNSP - D	1870791	Field pH (R112)	20230421.R112ZA	
OSNSP - D	1870791	Field Temp (R113)	20230421.R113ZA	
OSNSP - D	1870791	TSS (A27)	20230421.TM-G.A27F	
OSNSP - D	1870791	Turbidity (A21)	20230421.TM-G.A21D	
OSNSP - U	1870792	Field pH (R112)	20230421.R112ZA	
OSNSP - U	1870792	Field Temp (R113)	20230421.R113ZA	
OSNSP - U	1870792	TSS (A27)	20230421.TM-G.A27F	
OSNSP - U	1870792	Turbidity (A21)	20230421.TM-G.A21D	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	496627
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Other
		Project #:	Compliance Thrice Weekly Water Sampling Various Sites
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JC JR SF MA
Date Order Received:	4/24/2023	Analysis Started:	4/24/2023
Arrival Temperature:	8 °C	Analysis Completed:	4/25/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
NSP-C	1871201	Surface Water	None		4/20/2023	1:15 PM
OSNSP-D	1871202	Surface Water	None		4/21/2023	10:00 AM
OSNSP-U	1871203	Surface Water	None		4/21/2023	9:50 AM
NSP-C	1871204	Surface Water	None		4/21/2023	11:00 AM
OSNSP	1871205	Surface Water	None		4/21/2023	9:40 AM
OSNSP-D	1871206	Surface Water	None		4/23/2023	10:35 AM
OSNSP-U	1871207	Surface Water	None		4/23/2023	10:40 AM
OBSS-IN	1871208	Surface Water	None		4/23/2023	9:50 AM
OBSS-U	1871209	Surface Water	None		4/23/2023	11:30 AM
OBSS-OUT-FB	1871210	Surface Water	None		4/23/2023	9:55 AM
DUP1	1871211	Surface Water	None		4/23/2023	
DUP2	1871212	Surface Water	None		4/23/2023	
FB1	1871213	Surface Water	None		4/23/2023	
FB2	1871214	Surface Water	None		4/23/2023	

METHODS AND INSTRUMENTATION

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THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

REPORT COMMENTS

Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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WORK ORDER RESULTS

Sample Description	NSP - C		OSNSP - D		OSNSP - U		NSP - C		
Sample Date	4/20/2023 1:15 PM		4/21/2023 10:00 AM		4/21/2023 9:50 AM		4/21/2023 11:00 AM		
Lab ID	1871201		1871202		1871203		1871204		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	5.92	N/A	5.96	N/A	7.13	N/A	6.88	N/A	pH
Field Temp	5.2	N/A	1.4	N/A	2.1	N/A	3.1	N/A	°C

Sample Description	OSNSP		OSNSP - D		OSNSP - U		OBSS - IN		
Sample Date	4/21/2023 9:40 AM		4/23/2023 10:35 AM		4/23/2023 10:40 AM		4/23/2023 9:50 AM		
Lab ID	1871205		1871206		1871207		1871208		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.04	N/A	6.74	N/A	7.96	N/A	6.94	N/A	pH
Field Temp	5.2	N/A	2.8	N/A	2	N/A	6.9	N/A	°C

Sample Description	OBSS - U		OBSS - OUT - FB		
Sample Date	4/23/2023 11:30 AM		4/23/2023 9:55 AM		
Lab ID	1871209		1871210		
Field Parameters	Result	MDL	Result	MDL	Units
Field pH	7.17	N/A	7.22	N/A	pH
Field Temp	2.5	N/A	4.8	N/A	°C

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Sample Description	NSP - C		OSNSP - D		OSNSP - U		NSP - C		
Sample Date	4/20/2023 1:15 PM		4/21/2023 10:00 AM		4/21/2023 9:50 AM		4/21/2023 11:00 AM		
Lab ID	1871201		1871202		1871203		1871204		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	6.19	N/A	5.95	N/A	6.29	N/A	6.45	N/A	pH
Turbidity	2.09	0.06	1.40	0.06	1.03	0.06	3.14	0.06	NTU

Sample Description	OSNSP		OSNSP - D		OSNSP - U		OBSS - IN		
Sample Date	4/21/2023 9:40 AM		4/23/2023 10:35 AM		4/23/2023 10:40 AM		4/23/2023 9:50 AM		
Lab ID	1871205		1871206		1871207		1871208		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	7.35	N/A	5.87	N/A	6.23	N/A	7.44	N/A	pH
Turbidity	43.90	0.06	1.16	0.06	0.89	0.06	31.60	0.06	NTU

Sample Description	OBSS - U		OBSS - OUT - FB		DUP1		DUP2		
Sample Date	4/23/2023 11:30 AM		4/23/2023 9:55 AM		4/23/2023		4/23/2023		
Lab ID	1871209		1871210		1871211		1871212		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH	5.88	N/A	7.41	N/A	7.38	N/A	7.31	N/A	pH
Turbidity	1.05	0.06	31.10	0.06	30.80	0.06	37.70	0.06	NTU

Sample Description	FB1		FB2		
Sample Date	4/23/2023		4/23/2023		
Lab ID	1871213		1871214		
General Chemistry	Result	MDL	Result	MDL	Units
pH	5.93	N/A	5.77	N/A	pH

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Sample Description	FB1		FB2		
Sample Date	4/23/2023		4/23/2023		
Lab ID	1871213		1871214		
General Chemistry	**Result**	**MDL**	**Result**	**MDL**	**Units**
Turbidity	0.15 [0.14]	0.06	0.17	0.06	NTU

Sample Description	NSP - C		OSNSP - D		OSNSP - U		NSP - C		
Sample Date	4/20/2023 1:15 PM		4/21/2023 10:00 AM		4/21/2023 9:50 AM		4/21/2023 11:00 AM		
Lab ID	1871201		1871202		1871203		1871204		
Solids	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Total Suspended Solids	<1.3	1.3	2.7	1.3	2.0	1.3	2.0	1.3	mg/L

Sample Description	OSNSP		OSNSP - D		OSNSP - U		OBSS - IN		
Sample Date	4/21/2023 9:40 AM		4/23/2023 10:35 AM		4/23/2023 10:40 AM		4/23/2023 9:50 AM		
Lab ID	1871205		1871206		1871207		1871208		
Solids	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Total Suspended Solids	17.3	1.3	1.70	0.67	<0.67	0.67	17	2	mg/L

Sample Description	OBSS - U		OBSS - OUT - FB		DUP1		DUP2		
Sample Date	4/23/2023 11:30 AM		4/23/2023 9:55 AM		4/23/2023		4/23/2023		
Lab ID	1871209		1871210		1871211		1871212		
Solids	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Total Suspended Solids	<0.67	0.67	20	2	18.0	1.3	20	2	mg/L

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Sample Description	FB1		FB2		
Sample Date	4/23/2023		4/23/2023		
Lab ID	1871213		1871214		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	<1.3 [<1.3]	1.3	<0.67	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	<0.1	0.3	20230424.TM-G.A21C
Turbidity	0.1	NTU	0	0.12	0.3	20230424.TM-G.A21D

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	5.02	5.24	5.54	20230424.TM-G.A21C
Turbidity	0.1	NTU	5.02	5.24	5.54	20230424.TM-G.A21D

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	23	55.7	58.6	20230424.TM-G.A21C
Turbidity	0.1	NTU	23	55.8	58.6	20230424.TM-G.A21D

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	445	469	492	20230424.TM-G.A21C
Turbidity	0.1	NTU	445	470	492	20230424.TM-G.A21D

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	7.99	8.2	20230424.A2.0D
pH	N/A	pH	7.8	7.99	8.2	20230424.A2.0E

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	N/A	%	0	1.2	20	20230424.TM-G.A21C

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Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0.08	0.2	20230424.A2.0D
pH	N/A	% Rec	0	0.2	0.2	20230424.A2.0E

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230424.TM-G.A27G
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230424.TM-G.A27H

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	225	287.5	20230424.TM-G.A27G
Total Suspended Solids	2	mg/L	212.5	236	287.5	20230424.TM-G.A27H

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	N/A	%	0	0	20	20230424.TM-G.A27H

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
DUP1	1871211	pH of Water (A2.0)	20230424.A2.0D	
DUP1	1871211	TSS (A27)	20230424.TM-G.A27G	
DUP1	1871211	Turbidity (A21)	20230424.TM-G.A21C	
DUP2	1871212	pH of Water (A2.0)	20230424.A2.0E	
DUP2	1871212	TSS (A27)	20230424.TM-G.A27G	
DUP2	1871212	Turbidity (A21)	20230424.TM-G.A21C	
FB1	1871213	pH of Water (A2.0)	20230424.A2.0E	
FB1	1871213	TSS (A27)	20230424.TM-G.A27G	
FB1	1871213	Turbidity (A21)	20230424.TM-G.A21D	
FB1	1871213r	TSS (A27)	20230424.TM-G.A27G	
FB1	1871213r	Turbidity (A21)	20230424.TM-G.A21D	

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FB2	1871214	pH of Water (A2.0)	20230424.A2.0E	
FB2	1871214	TSS (A27)	20230424.TM-G.A27H	
FB2	1871214	Turbidity (A21)	20230424.TM-G.A21D	
NSP - C	1871201	Field pH (R112)	20230424.R112S	
NSP - C	1871201	Field Temp (R113)	20230424.R113S	
NSP - C	1871201	pH of Water (A2.0)	20230424.A2.0D	
NSP - C	1871201	TSS (A27)	20230424.TM-G.A27G	
NSP - C	1871201	Turbidity (A21)	20230424.TM-G.A21C	
NSP - C	1871204	Field pH (R112)	20230424.R112S	
NSP - C	1871204	Field Temp (R113)	20230424.R113S	
NSP - C	1871204	pH of Water (A2.0)	20230424.A2.0D	
NSP - C	1871204	TSS (A27)	20230424.TM-G.A27G	
NSP - C	1871204	Turbidity (A21)	20230424.TM-G.A21C	
OBSS - IN	1871208	Field pH (R112)	20230424.R112S	
OBSS - IN	1871208	Field Temp (R113)	20230424.R113S	
OBSS - IN	1871208	pH of Water (A2.0)	20230424.A2.0D	
OBSS - IN	1871208	TSS (A27)	20230424.TM-G.A27G	
OBSS - IN	1871208	Turbidity (A21)	20230424.TM-G.A21C	
OBSS - OUT - FB	1871210	Field pH (R112)	20230424.R112S	
OBSS - OUT - FB	1871210	Field Temp (R113)	20230424.R113S	
OBSS - OUT - FB	1871210	pH of Water (A2.0)	20230424.A2.0D	
OBSS - OUT - FB	1871210	TSS (A27)	20230424.TM-G.A27G	
OBSS - OUT - FB	1871210	Turbidity (A21)	20230424.TM-G.A21C	
OBSS - U	1871209	Field pH (R112)	20230424.R112S	
OBSS - U	1871209	Field Temp (R113)	20230424.R113S	
OBSS - U	1871209	pH of Water (A2.0)	20230424.A2.0D	
OBSS - U	1871209	TSS (A27)	20230424.TM-G.A27G	
OBSS - U	1871209	Turbidity (A21)	20230424.TM-G.A21C	
OSNSP	1871205	Field pH (R112)	20230424.R112S	
OSNSP	1871205	Field Temp (R113)	20230424.R113S	
OSNSP	1871205	pH of Water (A2.0)	20230424.A2.0D	

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OSNSP	1871205	TSS (A27)	20230424.TM-G.A27G	
OSNSP	1871205	Turbidity (A21)	20230424.TM-G.A21C	
OSNSP - D	1871202	Field pH (R112)	20230424.R112S	
OSNSP - D	1871202	Field Temp (R113)	20230424.R113S	
OSNSP - D	1871202	pH of Water (A2.0)	20230424.A2.0D	
OSNSP - D	1871202	TSS (A27)	20230424.TM-G.A27G	
OSNSP - D	1871202	Turbidity (A21)	20230424.TM-G.A21C	
OSNSP - D	1871206	Field pH (R112)	20230424.R112S	
OSNSP - D	1871206	Field Temp (R113)	20230424.R113S	
OSNSP - D	1871206	pH of Water (A2.0)	20230424.A2.0D	
OSNSP - D	1871206	TSS (A27)	20230424.TM-G.A27G	
OSNSP - D	1871206	Turbidity (A21)	20230424.TM-G.A21C	
OSNSP - U	1871203	Field pH (R112)	20230424.R112S	
OSNSP - U	1871203	Field Temp (R113)	20230424.R113S	
OSNSP - U	1871203	pH of Water (A2.0)	20230424.A2.0D	
OSNSP - U	1871203	TSS (A27)	20230424.TM-G.A27G	
OSNSP - U	1871203	Turbidity (A21)	20230424.TM-G.A21C	
OSNSP - U	1871207	Field pH (R112)	20230424.R112S	
OSNSP - U	1871207	Field Temp (R113)	20230424.R113S	
OSNSP - U	1871207	pH of Water (A2.0)	20230424.A2.0D	
OSNSP - U	1871207	TSS (A27)	20230424.TM-G.A27G	
OSNSP - U	1871207	Turbidity (A21)	20230424.TM-G.A21C	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	496626
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St	Regulation:	Cote - Daily, North and South Sedimentation Ponds
	Sudbury, ON, P3E 5S8	Project #:	North Sed. Pond Weekly Water Sampling
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JR JC
Date Order Received:	4/24/2023	Analysis Started:	4/24/2023
Arrival Temperature:	8 °C	Analysis Completed:	5/3/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1871200	Surface Water	None		4/23/2023	11:00 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Garson	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Tot. Water (A13.2)	Garson	Determination of Total Metals in Water by ICP/MS with Digestion	Modified from SW846-6020A
Mercury CV Water (S8)	Timmins	Determination of Inorganic Mercury in Water by Cold Vapour	Modified from EPA 245.7
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House

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Method	Lab	Description	Reference
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B
Un-Ionized NH3 (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

REPORT COMMENTS

Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496626

WORK ORDER RESULTS

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

Field Parameters	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Field pH	6.53	N/A	pH	~
Field Temp	3.7	N/A	°C	~

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

General Chemistry	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Ammonia (as N)	0.60 [0.59]	0.01	mg/L	~
Free Cyanide	0.002	0.001	mg/L	~
pH	7.38	N/A	pH	~
Total Cyanide	0.003	0.002	mg/L	1
Total Phosphorus (as P)	0.010 [0.008]	0.002	mg/L	~
Turbidity	35.10	0.06	NTU	~
Un-Ionized Ammonia (Calc.)	<0.002	0.002	mg/L	1

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IAMGOLD - Cote Project

Work Order Number: 496626

Sample Description	OSNSP			
Sample Date	4/23/2023 11:00 AM			
Lab ID	1871200			
Mercury by CV	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Mercury	<0.00001	0.00001	mg/L	~

Sample Description	OSNSP			
Sample Date	4/23/2023 11:00 AM			
Lab ID	1871200			
Mercury by CV (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Mercury	<0.00001	0.00001	mg/L	~

Sample Description	OSNSP			
Sample Date	4/23/2023 11:00 AM			
Lab ID	1871200			
Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Aluminum	0.029 [0.029]	0.001	mg/L	~
Dissolved Antimony	<0.0005 [<0.0005]	0.0005	mg/L	~
Dissolved Arsenic	<0.001 [<0.001]	0.001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496626

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Barium	0.018 [0.018]	0.001	mg/L	~
Dissolved Beryllium	<0.0005 [<0.0005]	0.0005	mg/L	~
Dissolved Bismuth	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Boron	<0.002 [<0.002]	0.002	mg/L	~
Dissolved Cadmium	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Calcium	48.50 [49.20]	0.05	mg/L	~
Dissolved Cerium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Cesium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Chromium	0.006 [0.005]	0.001	mg/L	~
Dissolved Cobalt	0.0021 [0.0020]	0.0001	mg/L	~
Dissolved Copper	0.004 [0.004]	0.001	mg/L	~
Dissolved Europium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Gallium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Iron	0.16 [0.17]	0.02	mg/L	~
Dissolved Lanthanum	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Lead	<0.0001 [<0.0001]	0.0001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496626

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Lithium	<0.005 [<0.005]	0.005	mg/L	~
Dissolved Magnesium	6.260 [6.220]	0.004	mg/L	~
Dissolved Manganese	1.08 [1.08]	0.01	mg/L	~
Dissolved Mercury	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Molybdenum	0.002 [0.002]	0.001	mg/L	~
Dissolved Nickel	0.002 [0.002]	0.001	mg/L	~
Dissolved Niobium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Phosphorus	<0.05 [<0.05]	0.05	mg/L	~
Dissolved Potassium	2.6 [2.6]	0.1	mg/L	~
Dissolved Rhodium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Rubidium	0.004 [0.004]	0.001	mg/L	~
Dissolved Scandium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Selenium	<0.0002 [<0.0002]	0.0002	mg/L	~
Dissolved Silicon	2.5 [2.5]	0.6	mg/L	~
Dissolved Silver	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Sodium	3.5 [3.6]	0.1	mg/L	~

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Work Order Number: 496626

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Strontium	0.073 [0.072]	0.001	mg/L	~
Dissolved Sulfur	6.8 [6.9]	0.8	mg/L	~
Dissolved Tellurium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Thallium	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Thorium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Tin	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Titanium	0.001 [<0.001]	0.001	mg/L	~
Dissolved Tungsten	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Uranium	0.001 [0.001]	0.001	mg/L	~
Dissolved Vanadium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Yttrium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Zinc	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Zirconium	<0.001 [<0.001]	0.001	mg/L	~

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IAMGOLD - Cote Project

Work Order Number: 496626

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Aluminum	1.15	0.01	mg/L	~
Total Antimony	<0.0005	0.0005	mg/L	~
Total Arsenic	<0.001	0.001	mg/L	0.2
Total Barium	0.025	0.001	mg/L	~
Total Beryllium	<0.0005	0.0005	mg/L	~
Total Bismuth	<0.001	0.001	mg/L	~
Total Boron	<0.002	0.002	mg/L	~
Total Cadmium	0.00004	0.00002	mg/L	~
Total Calcium	43.20	0.05	mg/L	~
Total Cerium	0.004	0.001	mg/L	~
Total Cesium	<0.001	0.001	mg/L	~
Total Chromium	0.003	0.001	mg/L	~
Total Cobalt	0.0026	0.0001	mg/L	~
Total Copper	0.008	0.001	mg/L	0.2
Total Europium	<0.001	0.001	mg/L	~
Total Gallium	<0.001	0.001	mg/L	~
Total Iron	2.21	0.02	mg/L	~
Total Lanthanum	0.002	0.001	mg/L	~
Total Lead	0.0006	0.0001	mg/L	0.16
Total Lithium	<0.005	0.005	mg/L	~
Total Magnesium	5.860	0.004	mg/L	~
Total Manganese	1.11	0.01	mg/L	~

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Work Order Number: 496626

Sample Description	OSNSP
Sample Date	4/23/2023 11:00 AM
Lab ID	1871200

Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Mercury	<0.0001	0.0001	mg/L	~
Total Molybdenum	0.002	0.001	mg/L	~
Total Nickel	0.003	0.001	mg/L	0.5
Total Niobium	<0.001	0.001	mg/L	~
Total Phosphorus	<0.05	0.05	mg/L	~
Total Potassium	2.5	0.1	mg/L	~
Total Rhodium	<0.001	0.001	mg/L	~
Total Rubidium	0.005	0.001	mg/L	~
Total Scandium	0.001	0.001	mg/L	~
Total Selenium	0.0003	0.0002	mg/L	~
Total Silicon	3.5	0.6	mg/L	~
Total Silver	<0.0001	0.0001	mg/L	~
Total Sodium	3.1	0.1	mg/L	~
Total Strontium	0.078	0.001	mg/L	~
Total Sulphur	3.6	0.8	mg/L	~
Total Tellurium	<0.001	0.001	mg/L	~
Total Thallium	<0.0001	0.0001	mg/L	~
Total Thorium	<0.001	0.001	mg/L	~
Total Tin	<0.001	0.001	mg/L	~
Total Titanium	0.044	0.001	mg/L	~
Total Tungsten	<0.001	0.001	mg/L	~
Total Uranium	0.002	0.001	mg/L	~

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Sample Description	OSNSP			
Sample Date	4/23/2023 11:00 AM			
Lab ID	1871200			
Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Vanadium	0.003	0.001	mg/L	~
Total Yttrium	0.001	0.001	mg/L	~
Total Zinc	0.002	0.001	mg/L	0.8
Total Zirconium	0.001	0.001	mg/L	~

Sample Description	OSNSP			
Sample Date	4/23/2023 11:00 AM			
Lab ID	1871200			
Radionuclides	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Radium-226	0.008	0.005	Bq/L	1.11

Sample Description	OSNSP			
Sample Date	4/23/2023 11:00 AM			
Lab ID	1871200			
Solids	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Suspended Solids	23	2	mg/L	30

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IAMGOLD - Cote Project

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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496626

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Blank: LRB-6 (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0	<0.01	0.03	20230424.A42I

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0	0.00183	0.003	20230425.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0	<0.002	0.006	20230425.TM-KL.A43T1
Turbidity	0.1	NTU	0	<0.1	0.3	20230424.TM-G.A21C

Method Blank: Method Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	<0.002	0.006	20230424.A23.2D

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	5.02	5.24	5.54	20230424.TM-G.A21C

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	23	55.7	58.6	20230424.TM-G.A21C

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	445	469	492	20230424.TM-G.A21C

Positive Control: Lab Control Sample .05 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.043	0.06	20230424.A23.2D

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IAMGOLD - Cote Project

Work Order Number: 496626

Positive Control: Lab Control Sample .2 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.18	0.203	0.22	20230424.A23.2D

Positive Control: LFB-7 (0.25 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0.2	0.274	0.3	20230424.A42I

Positive Control: LFRB-5 (0.250 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.213	0.286	0.288	20230425.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0.213	0.268	0.288	20230425.TM-KL.A43T1

Positive Control: LFRB-7 (0.100 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.085	0.111	0.115	20230425.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0.085	0.105	0.115	20230425.TM-KL.A43T1

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	7.99	8.2	20230424.A2.0C

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	N/A	%	0	1.2	20	20230424.TM-G.A21C

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0	0.2	20230424.A2.0C

Sample Replicate: % RPD (99)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	%	0	4.1	20	20230425.TM-KL.A43T1

Sample Replicate: %RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	%	0	1.1	20	20230424.A42I

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496626

Sample Spike: LFS-9 (Sample Spike) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	% Rec	80	101	120	20230424.A42I

Sample Spike: LFSM-9 (0.100 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	N/A	% Rec	80	108	120	20230425.TM-KL.A43F1

Sample Spike: LFSM-9 (0.100 mg/L) (98)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	% Rec	80	90.6	120	20230425.TM-KL.A43T1

Sample Spike: Matrix Spike (UCL 125, LCL 75, New) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	96.3	125	20230424.A23.2D

Mercury by CV

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	2.25E-05	2.6e-005	2.75E-05	20230425.TM-T.A8C

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230425.TM-T.A8C

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	0.01	%	85	95.5	115	20230425.TM-T.A8C

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	2e-006	mg/L	3E-06	4.72e-006	7E-06	20230425.TM-T.A8C

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496626

Mercury by CV (Dissolved)

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	9E-06	1.06e-005	1.1E-05	20230425.TM-T.A8B

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230425.TM-T.A8B

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	%	85	104	115	20230425.TM-T.A8B

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	2e-006	mg/L	3E-06	6.05e-006	7E-06	20230425.TM-T.A8B

Metals (Dissolved)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0	0.00692	0.001	20230425.A13.3H
Dissolved Antimony	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Arsenic	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Barium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Beryllium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Bismuth	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Boron	0.002	mg/L	0	<0.002	0.005	20230425.A13.3H
Dissolved Cadmium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Calcium	0.05	mg/L	0	<0.05	0.05	20230425.A13.3H
Dissolved Cerium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Cesium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Chromium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Cobalt	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H

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Dissolved Copper	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Europium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Gallium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Iron	0.02	mg/L	0	<0.02	0.02	20230425.A13.3H
Dissolved Lanthanum	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Lead	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Lithium	0.005	mg/L	0	<0.005	0.005	20230425.A13.3H
Dissolved Magnesium	0.004	mg/L	0	<0.004	0.004	20230425.A13.3H
Dissolved Manganese	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230425.A13.3H
Dissolved Molybdenum	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Nickel	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Niobium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Phosphorus	0.05	mg/L	0	<0.05	0.05	20230425.A13.3H
Dissolved Potassium	0.1	mg/L	0	<0.1	0.1	20230425.A13.3H
Dissolved Rubidium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Scandium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Selenium	0.0002	mg/L	0	<0.0002	0.001	20230425.A13.3H
Dissolved Silicon	0.6	mg/L	0	<0.6	0.6	20230425.A13.3H
Dissolved Silver	0.0001	mg/L	0	<0.0001	0.0001	20230425.A13.3H
Dissolved Sodium	0.1	mg/L	0	<0.1	0.3	20230425.A13.3H
Dissolved Strontium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Sulfur	0.8	mg/L	0	<0.8	0.8	20230425.A13.3H
Dissolved Tellurium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Thallium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Thorium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Tin	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Titanium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Tungsten	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Uranium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Vanadium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H

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Dissolved Yttrium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Zinc	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H
Dissolved Zirconium	0.001	mg/L	0	<0.001	0.001	20230425.A13.3H

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	80	112	120	20230425.A13.3H
Dissolved Antimony	N/A	%	80	95.7	120	20230425.A13.3H
Dissolved Arsenic	N/A	%	80	102	120	20230425.A13.3H
Dissolved Barium	N/A	%	80	93.3	120	20230425.A13.3H
Dissolved Beryllium	N/A	%	80	108	120	20230425.A13.3H
Dissolved Boron	N/A	%	80	105	120	20230425.A13.3H
Dissolved Cadmium	N/A	%	80	100	120	20230425.A13.3H
Dissolved Calcium	N/A	%	80	104	120	20230425.A13.3H
Dissolved Chromium	N/A	%	80	103	120	20230425.A13.3H
Dissolved Cobalt	N/A	%	80	103	120	20230425.A13.3H
Dissolved Copper	N/A	%	80	102	120	20230425.A13.3H
Dissolved Iron	N/A	%	80	104	120	20230425.A13.3H
Dissolved Lead	N/A	%	80	105	120	20230425.A13.3H
Dissolved Magnesium	N/A	%	80	102	120	20230425.A13.3H
Dissolved Manganese	N/A	%	80	99.5	120	20230425.A13.3H
Dissolved Mercury	N/A	%	80	95.1	120	20230425.A13.3H
Dissolved Molybdenum	N/A	%	80	106	120	20230425.A13.3H
Dissolved Nickel	N/A	%	80	99.8	120	20230425.A13.3H
Dissolved Phosphorus	N/A	%	80	95.6	120	20230425.A13.3H
Dissolved Potassium	N/A	%	80	106	120	20230425.A13.3H
Dissolved Selenium	N/A	%	80	99.7	120	20230425.A13.3H
Dissolved Silicon	N/A	%	80	96.1	120	20230425.A13.3H
Dissolved Sodium	N/A	%	80	97.1	120	20230425.A13.3H
Dissolved Sulfur	N/A	%	80	98.7	120	20230425.A13.3H
Dissolved Thallium	N/A	%	80	101	120	20230425.A13.3H
Dissolved Uranium	N/A	%	80	99.3	120	20230425.A13.3H

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Dissolved Vanadium	N/A	%	80	102	120	20230425.A13.3H
Dissolved Zinc	N/A	%	80	101	120	20230425.A13.3H

Reference Sample: CRM-12 EP-L-3 (µg/L) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0.0792	0.11	0.1192	20230425.A13.3H
Dissolved Antimony	0.0005	mg/L	0.0078	0.0116	0.0152	20230425.A13.3H
Dissolved Arsenic	0.001	mg/L	0.0075	0.01	0.0124	20230425.A13.3H
Dissolved Barium	0.001	mg/L	0.0064	0.00748	0.0097	20230425.A13.3H
Dissolved Beryllium	0.0005	mg/L	0.001	0.00204	0.0029	20230425.A13.3H
Dissolved Boron	0.002	mg/L	0.076	0.0936	0.113	20230425.A13.3H
Dissolved Cadmium	0.0001	mg/L	0.0015	0.00204	0.0024	20230425.A13.3H
Dissolved Calcium	0.05	mg/L	0.273	0.594	0.664	20230425.A13.3H
Dissolved Chromium	0.001	mg/L	0.0094	0.0137	0.0166	20230425.A13.3H
Dissolved Cobalt	0.0001	mg/L	0.008	0.0115	0.0122	20230425.A13.3H
Dissolved Copper	0.001	mg/L	0.0123	0.0168	0.02	20230425.A13.3H
Dissolved Lead	0.0001	mg/L	0.00258	0.00437	0.00538	20230425.A13.3H
Dissolved Magnesium	0.004	mg/L	0.041	0.0599	0.071	20230425.A13.3H
Dissolved Manganese	0.001	mg/L	0.0047	0.00597	0.0073	20230425.A13.3H
Dissolved Molybdenum	0.001	mg/L	0.01746	0.0241	0.02644	20230425.A13.3H
Dissolved Nickel	0.001	mg/L	0.0154	0.0203	0.0241	20230425.A13.3H
Dissolved Potassium	0.1	mg/L	0.323	0.419	0.497	20230425.A13.3H
Dissolved Selenium	0.001	mg/L	0.0461	0.057	0.0708	20230425.A13.3H
Dissolved Sodium	0.1	mg/L	0.145	0.248	0.345	20230425.A13.3H
Dissolved Strontium	0.001	mg/L	0.106	0.146	0.17	20230425.A13.3H
Dissolved Thallium	0.0001	mg/L	0.004678	0.00645	0.007122	20230425.A13.3H
Dissolved Uranium	0.001	mg/L	0.0036	0.00475	0.00687	20230425.A13.3H
Dissolved Vanadium	0.001	mg/L	0.01096	0.0143	0.01644	20230425.A13.3H
Dissolved Zinc	0.001	mg/L	0.0341	0.0433	0.0515	20230425.A13.3H

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	0	0	20	20230425.A13.3H

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Dissolved Barium	N/A	%	0	0	20	20230425.A13.3H
Dissolved Calcium	N/A	%	0	1.4	20	20230425.A13.3H
Dissolved Cobalt	N/A	%	0	0	20	20230425.A13.3H
Dissolved Magnesium	N/A	%	0	0.6	20	20230425.A13.3H
Dissolved Manganese	N/A	%	0	0	20	20230425.A13.3H
Dissolved Potassium	N/A	%	0	1.2	20	20230425.A13.3H
Dissolved Sodium	N/A	%	0	2.2	20	20230425.A13.3H
Dissolved Strontium	N/A	%	0	1.4	20	20230425.A13.3H

Sample Spike: LFSM-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	% Rec	70	121	130	20230425.A13.3H
Dissolved Antimony	N/A	% Rec	70	103	130	20230425.A13.3H
Dissolved Arsenic	N/A	% Rec	70	113	130	20230425.A13.3H
Dissolved Barium	N/A	% Rec	70	104	130	20230425.A13.3H
Dissolved Beryllium	N/A	% Rec	70	128	130	20230425.A13.3H
Dissolved Cadmium	N/A	% Rec	70	116	130	20230425.A13.3H
Dissolved Chromium	N/A	% Rec	70	109	130	20230425.A13.3H
Dissolved Cobalt	N/A	% Rec	70	111	130	20230425.A13.3H
Dissolved Copper	N/A	% Rec	70	108	130	20230425.A13.3H
Dissolved Iron	N/A	% Rec	70	96.8	130	20230425.A13.3H
Dissolved Lead	N/A	% Rec	70	105	130	20230425.A13.3H
Dissolved Manganese	N/A	% Rec	70	105	130	20230425.A13.3H
Dissolved Molybdenum	N/A	% Rec	70	93	130	20230425.A13.3H
Dissolved Nickel	N/A	% Rec	70	105	130	20230425.A13.3H
Dissolved Selenium	N/A	% Rec	70	118	130	20230425.A13.3H
Dissolved Thallium	N/A	% Rec	70	104	130	20230425.A13.3H
Dissolved Vanadium	N/A	% Rec	70	107	130	20230425.A13.3H
Dissolved Zinc	N/A	% Rec	70	115	130	20230425.A13.3H

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Metals (Total)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Antimony	0.0005	mg/L	0	<0.0005	0.001	20230425.A13.2G
Total Arsenic	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Barium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Beryllium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Bismuth	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Boron	0.002	mg/L	0	<0.002	0.005	20230425.A13.2G
Total Cadmium	0.0001	mg/L	0	<0.0001	0.0003	20230425.A13.2G
Total Calcium	0.05	mg/L	0	0.067	0.05	20230425.A13.2G
Total Cerium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Cesium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Chromium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Cobalt	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Copper	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Europium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Gallium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Iron	0.02	mg/L	0	<0.02	0.06	20230425.A13.2G
Total Lanthanum	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Lead	0.0005	mg/L	0	<0.0005	0.001	20230425.A13.2G
Total Lithium	0.005	mg/L	0	<0.005	0.005	20230425.A13.2G
Total Magnesium	0.004	mg/L	0	<0.004	0.012	20230425.A13.2G
Total Manganese	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230425.A13.2G
Total Molybdenum	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Nickel	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Niobium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Phosphorus	0.05	mg/L	0	<0.05	0.05	20230425.A13.2G
Total Potassium	0.1	mg/L	0	<0.1	0.1	20230425.A13.2G

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Total Rubidium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Scandium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Selenium	0.0002	mg/L	0	<0.0002	0.001	20230425.A13.2G
Total Silicon	0.6	mg/L	0	<0.6	0.6	20230425.A13.2G
Total Silver	0.0001	mg/L	0	<0.0001	0.0003	20230425.A13.2G
Total Sodium	0.1	mg/L	0	<0.1	0.3	20230425.A13.2G
Total Strontium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Sulphur	0.8	mg/L	0	<0.8	0.8	20230425.A13.2G
Total Tellurium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Thallium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Thorium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Tin	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Titanium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Tungsten	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Uranium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Vanadium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Yttrium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Zinc	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G
Total Zirconium	0.001	mg/L	0	<0.001	0.001	20230425.A13.2G

Positive Control: EP-L-3 (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0.077	0.106	0.137	20230425.A13.2G
Total Antimony	0.0005	mg/L	0.0078	0.0111	0.0152	20230425.A13.2G
Total Arsenic	0.001	mg/L	0.0075	0.00974	0.0124	20230425.A13.2G
Total Barium	0.001	mg/L	0.0064	0.00876	0.0097	20230425.A13.2G
Total Beryllium	0.0005	mg/L	0.001	0.00198	0.0029	20230425.A13.2G
Total Boron	0.002	mg/L	0.076	0.0916	0.113	20230425.A13.2G
Total Cadmium	0.0001	mg/L	0.0015	0.00189	0.0024	20230425.A13.2G
Total Calcium	0.05	mg/L	0.273	0.492	0.664	20230425.A13.2G
Total Chromium	0.001	mg/L	0.0094	0.0141	0.0166	20230425.A13.2G
Total Cobalt	0.0001	mg/L	0.008	0.0118	0.0122	20230425.A13.2G

Total Copper	0.001	mg/L	0.0123	0.0172	0.02	20230425.A13.2G
Total Lead	0.0005	mg/L	0.00258	0.00421	0.00538	20230425.A13.2G
Total Magnesium	0.004	mg/L	0.041	0.0589	0.071	20230425.A13.2G
Total Manganese	0.001	mg/L	0.0047	0.00608	0.0073	20230425.A13.2G
Total Molybdenum	0.001	mg/L	0.01746	0.0221	0.02644	20230425.A13.2G
Total Nickel	0.001	mg/L	0.0154	0.0211	0.0241	20230425.A13.2G
Total Potassium	0.1	mg/L	0.323	0.434	0.497	20230425.A13.2G
Total Selenium	0.0005	mg/L	0.0461	0.0522	0.0708	20230425.A13.2G
Total Sodium	0.1	mg/L	0.145	0.255	0.345	20230425.A13.2G
Total Strontium	0.001	mg/L	0.106	0.146	0.17	20230425.A13.2G
Total Thallium	0.0001	mg/L	0.004678	0.00628	0.007122	20230425.A13.2G
Total Uranium	0.001	mg/L	0.0036	0.00536	0.00687	20230425.A13.2G
Total Vanadium	0.001	mg/L	0.01096	0.015	0.01644	20230425.A13.2G
Total Zinc	0.001	mg/L	0.0341	0.0391	0.0515	20230425.A13.2G

Positive Control: LFB-7 (N 100 ug/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	80	103	120	20230425.A13.2G
Total Antimony	N/A	%	80	92.8	120	20230425.A13.2G
Total Arsenic	N/A	%	80	96.9	120	20230425.A13.2G
Total Barium	N/A	%	80	108	120	20230425.A13.2G
Total Beryllium	N/A	%	80	98.5	120	20230425.A13.2G
Total Boron	N/A	%	80	92.7	120	20230425.A13.2G
Total Cadmium	N/A	%	80	97.4	120	20230425.A13.2G
Total Calcium	N/A	%	80	95.2	120	20230425.A13.2G
Total Chromium	N/A	%	80	104	120	20230425.A13.2G
Total Cobalt	N/A	%	80	106	120	20230425.A13.2G
Total Copper	N/A	%	80	103	120	20230425.A13.2G
Total Iron	N/A	%	80	106	120	20230425.A13.2G
Total Lead	N/A	%	80	105	120	20230425.A13.2G
Total Magnesium	N/A	%	80	99.3	120	20230425.A13.2G
Total Manganese	N/A	%	80	103	120	20230425.A13.2G

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Total Mercury	N/A	%	80	94.4	120	20230425.A13.2G
Total Molybdenum	N/A	%	80	98.8	120	20230425.A13.2G
Total Nickel	N/A	%	80	105	120	20230425.A13.2G
Total Phosphorus	N/A	%	80	89.8	120	20230425.A13.2G
Total Potassium	N/A	%	80	98.3	120	20230425.A13.2G
Total Selenium	N/A	%	80	88.5	120	20230425.A13.2G
Total Silicon	N/A	%	80	92.1	120	20230425.A13.2G
Total Sodium	N/A	%	80	92.8	120	20230425.A13.2G
Total Sulphur	N/A	%	80	92.8	120	20230425.A13.2G
Total Thallium	N/A	%	80	104	120	20230425.A13.2G
Total Uranium	N/A	%	80	111	120	20230425.A13.2G
Total Vanadium	N/A	%	80	107	120	20230425.A13.2G
Total Zinc	N/A	%	80	93.9	120	20230425.A13.2G

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	0	0.9	20	20230425.A13.2G
Total Barium	N/A	%	0	0	20	20230425.A13.2G
Total Calcium	N/A	%	0	2.1	20	20230425.A13.2G
Total Cobalt	N/A	%	0	0	20	20230425.A13.2G
Total Copper	N/A	%	0	0	20	20230425.A13.2G
Total Iron	N/A	%	0	0.2	20	20230425.A13.2G
Total Magnesium	N/A	%	0	1.7	20	20230425.A13.2G
Total Manganese	N/A	%	0	1.2	20	20230425.A13.2G
Total Potassium	N/A	%	0	2.3	20	20230425.A13.2G
Total Sodium	N/A	%	0	1.4	20	20230425.A13.2G
Total Strontium	N/A	%	0	1.6	20	20230425.A13.2G
Total Sulphur	N/A	%	0	1.5	20	20230425.A13.2G
Total Titanium	N/A	%	0	0	20	20230425.A13.2G
Total Zinc	N/A	%	0	0	20	20230425.A13.2G

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IAMGOLD - Cote Project

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Sample Spike: LFSM-9 (N 100 ug/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	% Rec	70	111	130	20230425.A13.2G
Total Antimony	N/A	% Rec	70	95.6	130	20230425.A13.2G
Total Arsenic	N/A	% Rec	70	101	130	20230425.A13.2G
Total Barium	N/A	% Rec	70	107	130	20230425.A13.2G
Total Beryllium	N/A	% Rec	70	101	130	20230425.A13.2G
Total Cadmium	N/A	% Rec	70	102	130	20230425.A13.2G
Total Chromium	N/A	% Rec	70	107	130	20230425.A13.2G
Total Cobalt	N/A	% Rec	70	110	130	20230425.A13.2G
Total Copper	N/A	% Rec	70	106	130	20230425.A13.2G
Total Iron	N/A	% Rec	70	99.9	130	20230425.A13.2G
Total Lead	N/A	% Rec	70	104	130	20230425.A13.2G
Total Manganese	N/A	% Rec	70	100	130	20230425.A13.2G
Total Molybdenum	N/A	% Rec	70	99	130	20230425.A13.2G
Total Nickel	N/A	% Rec	70	109	130	20230425.A13.2G
Total Selenium	N/A	% Rec	70	96	130	20230425.A13.2G
Total Thallium	N/A	% Rec	70	104	130	20230425.A13.2G
Total Vanadium	N/A	% Rec	70	108	130	20230425.A13.2G
Total Zinc	N/A	% Rec	70	101	130	20230425.A13.2G

Radionuclides

Blank: LMB (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0	<0.005	0.005	20230503.TM-G.A129B

Positive Control: LFMB-1 (0.05) (71)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0461	0.06	20230503.TM-G.A129B

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IAMGOLD - Cote Project

Work Order Number: 496626

Positive Control: LFMB-2 (0.05) (72)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0464	0.06	20230503.TM-G.A129B

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	%	0	0.8	20	20230503.TM-G.A129B

Sample Spike: LFSM (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	% Rec	75	121	125	20230503.TM-G.A129B

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230424.TM-G.A27G

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	225	287.5	20230424.TM-G.A27G

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IAMGOLD - Cote Project

Work Order Number: 496626

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
OSNSP	1871200	Ammonia Water (A42)	20230424.A42I	
OSNSP	1871200	Field pH (R112)	20230424.R112R	
OSNSP	1871200	Field Temp (R113)	20230424.R113R	
OSNSP	1871200	Free CN Water (A43)	20230425.TM-KL.A43F1	
OSNSP	1871200	ICPMS Dis. Water (A13.3)	20230425.A13.3H	20230424.A52Z
OSNSP	1871200	ICPMS Tot. Water (A13.2)	20230425.A13.2G	20230424.A52X
OSNSP	1871200	Mercury CV Water (S8)	20230425.TM-T.A8C	
OSNSP	1871200	Mercury Dis. Water CV (S8)	20230425.TM-T.A8B	
OSNSP	1871200	pH of Water (A2.0)	20230424.A2.0C	
OSNSP	1871200	Ra226 (A129)	20230503.TM-G.A129B	
OSNSP	1871200	Total CN Water (A43)	20230425.TM-KL.A43T1	
OSNSP	1871200	TP Water (A23.2)	20230424.A23.2D	
OSNSP	1871200	TSS (A27)	20230424.TM-G.A27G	
OSNSP	1871200	Turbidity (A21)	20230424.TM-G.A21C	
OSNSP	1871200	Un-Ionized NH3 (A42.4)	20230424.TM-G.A42.4C	
OSNSP	1871200r	Ammonia Water (A42)	20230424.A42I	
OSNSP	1871200r	ICPMS Dis. Water (A13.3)	20230425.A13.3H	20230424.A52Z
OSNSP	1871200r	TP Water (A23.2)	20230424.A23.2D	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	496795
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Other
		Project #:	Compliance Thrice Weekly Water Sampling Various Sites
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JR SF
Date Order Received:	4/25/2023	Analysis Started:	4/25/2023
Arrival Temperature:	6 °C	Analysis Completed:	4/26/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TMFCP	1871826	Surface Water	None		4/24/2023	11:30 AM
OSNSP	1871827	Surface Water	None		4/24/2023	9:45 AM
OSNSP-U	1871828	Surface Water	None		4/24/2023	9:35 AM
OSNSP-D	1871829	Surface Water	None		4/24/2023	10:20 AM
NSP-C	1871830	Surface Water	None		4/24/2023	9:00 AM
Dup1	1871831	Surface Water	None		4/24/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496795

REPORT COMMENTS

Regulation Cote-Daily Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

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WORK ORDER RESULTS

Sample Description	TMFCP		OSNSP		OSNSP - U		OSNSP - D		
Sample Date	4/24/2023 11:30 AM		4/24/2023 9:45 AM		4/24/2023 9:35 AM		4/24/2023 10:20 AM		
Lab ID	1871826		1871827		1871828		1871829		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.51	N/A	6.37	N/A	6.08	N/A	7.31	N/A	pH
Field Temp	4.2	N/A	3.7	N/A	3.3	N/A	3.8	N/A	°C

Sample Description	NSP - C		Dup1		
Sample Date	4/24/2023 9:00 AM		4/24/2023		
Lab ID	1871830		1871831		
Field Parameters	Result	MDL	Result	MDL	Units
Field pH	5.84	N/A	7.51	N/A	pH
Field Temp	7	N/A	4.2	N/A	°C

Sample Description	TMFCP		OSNSP		OSNSP - U		OSNSP - D		
Sample Date	4/24/2023 11:30 AM		4/24/2023 9:45 AM		4/24/2023 9:35 AM		4/24/2023 10:20 AM		
Lab ID	1871826		1871827		1871828		1871829		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
pH			7.39	N/A					pH
Turbidity	4.91	0.06	34.50	0.06	0.93	0.06	1.45	0.06	NTU

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Sample Description	NSP - C		Dup1		
Sample Date	4/24/2023 9:00 AM		4/24/2023		
Lab ID	1871830		1871831		
General Chemistry	Result	MDL	Result	MDL	Units
Turbidity	4.24	0.06	5.13 [5.12]	0.06	NTU

Sample Description	TMFCP		OSNSP		OSNSP - U		OSNSP - D		
Sample Date	4/24/2023 11:30 AM		4/24/2023 9:45 AM		4/24/2023 9:35 AM		4/24/2023 10:20 AM		
Lab ID	1871826		1871827		1871828		1871829		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	8.00	0.67	25	2	3.70	0.67	2.7	1.3	mg/L

Sample Description	NSP - C		Dup1		
Sample Date	4/24/2023 9:00 AM		4/24/2023		
Lab ID	1871830		1871831		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	6.7	1.3	8.33	0.67	mg/L

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 496795

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	0.1	0.3	20230425.TM-G.A21E

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	5.02	5.3	5.54	20230425.TM-G.A21E

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	23	55.7	58.6	20230425.TM-G.A21E

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	445	469	492	20230425.TM-G.A21E

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	7.99	8.2	20230425.A2.0C

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	N/A	%	0	0.2	20	20230425.TM-G.A21E

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0.04	0.2	20230425.A2.0C

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Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230425.TM-G.A27F
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230425.TM-G.A27G

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	214	287.5	20230425.TM-G.A27G
Total Suspended Solids	2	mg/L	212.5	218	287.5	20230425.TM-G.A27F

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	N/A	%	0	11.1	20	20230425.TM-G.A27G

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THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
Dup1	1871831	Field pH (R112)	20230425.R112ZA	
Dup1	1871831	Field Temp (R113)	20230425.R113ZA	
Dup1	1871831	TSS (A27)	20230425.TM-G.A27F	
Dup1	1871831	Turbidity (A21)	20230425.TM-G.A21E	
Dup1	1871831r	Turbidity (A21)	20230425.TM-G.A21E	
NSP - C	1871830	Field pH (R112)	20230425.R112ZA	
NSP - C	1871830	Field Temp (R113)	20230425.R113ZA	
NSP - C	1871830	TSS (A27)	20230425.TM-G.A27F	
NSP - C	1871830	Turbidity (A21)	20230425.TM-G.A21E	
OSNSP	1871827	Field pH (R112)	20230425.R112ZA	
OSNSP	1871827	Field Temp (R113)	20230425.R113ZA	
OSNSP	1871827	pH of Water (A2.0)	20230425.A2.0C	
OSNSP	1871827	TSS (A27)	20230425.TM-G.A27F	
OSNSP	1871827	Turbidity (A21)	20230425.TM-G.A21E	
OSNSP - D	1871829	Field pH (R112)	20230425.R112ZA	
OSNSP - D	1871829	Field Temp (R113)	20230425.R113ZA	
OSNSP - D	1871829	TSS (A27)	20230425.TM-G.A27F	
OSNSP - D	1871829	Turbidity (A21)	20230425.TM-G.A21E	
OSNSP - U	1871828	Field pH (R112)	20230425.R112ZA	
OSNSP - U	1871828	Field Temp (R113)	20230425.R113ZA	
OSNSP - U	1871828	TSS (A27)	20230425.TM-G.A27F	
OSNSP - U	1871828	Turbidity (A21)	20230425.TM-G.A21E	
TMFCP	1871826	Field pH (R112)	20230425.R112ZA	
TMFCP	1871826	Field Temp (R113)	20230425.R113ZA	
TMFCP	1871826	TSS (A27)	20230425.TM-G.A27G	
TMFCP	1871826	Turbidity (A21)	20230425.TM-G.A21E	

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Client:	Jean-Michel Giroux	Work Order Number:	497189
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St Sudbury, ON, P3E 5S8	Regulation:	Other
		Project #:	Compliance Thrice Weekly Water Sampling Various Sites
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	JR SF MB MA SM
Date Order Received:	4/28/2023	Analysis Started:	4/28/2023
Arrival Temperature:	8 °C	Analysis Completed:	5/2/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1873240	Surface Water	None		4/27/2023	9:50 AM
OSNSP-D	1873241	Surface Water	None		4/27/2023	9:50 AM
OSNSP-U	1873242	Surface Water	None		4/27/2023	10:00 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B

REPORT COMMENTS

Regulation: Cote- Daily Compliance

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497189

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497189

WORK ORDER RESULTS

Sample Description	OSNSP		OSNSP - D		OSNSP - U		
Sample Date	4/27/2023 9:50 AM		4/27/2023 9:50 AM		4/27/2023 10:00 AM		
Lab ID	1873240		1873241		1873242		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.1	N/A	6.95	N/A	7.81	N/A	pH
Field Temp	4.8	N/A	4.6	N/A	4.5	N/A	°C

Sample Description	OSNSP		OSNSP - D		OSNSP - U		
Sample Date	4/27/2023 9:50 AM		4/27/2023 9:50 AM		4/27/2023 10:00 AM		
Lab ID	1873240		1873241		1873242		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Turbidity	26.80	0.06	1.44	0.06	1.19	0.06	NTU

Sample Description	OSNSP		OSNSP - D		OSNSP - U		
Sample Date	4/27/2023 9:50 AM		4/27/2023 9:50 AM		4/27/2023 10:00 AM		
Lab ID	1873240		1873241		1873242		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	17	2	2.0	1.3	2.0	1.3	mg/L

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497189

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497189

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	0	0.13	0.3	20230428.TM-G.A21D

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	5.02	5.26	5.54	20230428.TM-G.A21D

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	23	55.9	58.6	20230428.TM-G.A21D

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	445	470	492	20230428.TM-G.A21D

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230501.TM-G.A27C

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	253	287.5	20230501.TM-G.A27C

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497189

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
OSNSP	1873240	Field pH (R112)	20230428.R112X	
OSNSP	1873240	Field Temp (R113)	20230428.R113Y	
OSNSP	1873240	TSS (A27)	20230501.TM-G.A27C	
OSNSP	1873240	Turbidity (A21)	20230428.TM-G.A21D	
OSNSP - D	1873241	Field pH (R112)	20230428.R112X	
OSNSP - D	1873241	Field Temp (R113)	20230428.R113Y	
OSNSP - D	1873241	TSS (A27)	20230501.TM-G.A27C	
OSNSP - D	1873241	Turbidity (A21)	20230428.TM-G.A21D	
OSNSP - U	1873242	Field pH (R112)	20230428.R112X	
OSNSP - U	1873242	Field Temp (R113)	20230428.R113Y	
OSNSP - U	1873242	TSS (A27)	20230501.TM-G.A27C	
OSNSP - U	1873242	Turbidity (A21)	20230428.TM-G.A21D	

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CERTIFICATE OF ANALYSIS

Client:	Jean-Michel Giroux	Work Order Number:	497282
Company:	IAMGOLD - Cote Project	PO #:	9405
Address:	9-2140 Regent St	Regulation:	Cote - Daily, North and South Sedimentation Ponds
	Sudbury, ON, P3E 5S8	Project #:	North Sed. Pond Weekly Water Sampling
Phone:	(705) 266-5193	DWS #:	
Email:	jean-Michel_Giroux@iamgold.com	Sampled By:	SF
Date Order Received:	5/1/2023	Analysis Started:	5/1/2023
Arrival Temperature:	9 °C	Analysis Completed:	5/9/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OSNSP	1873510	Surface Water	None		4/30/2023	11:00 AM
Dup2	1873511	Surface Water	None		4/30/2023	
FIELD BLANK	1873512	Surface Water	None		4/30/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Field pH (R112)	Garson	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Garson	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Garson	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Tot. Water (A13.2)	Garson	Determination of Total Metals in Water by ICP/MS with Digestion	Modified from SW846-6020A
Mercury CV Water (S8)	Timmins	Determination of Inorganic Mercury in Water by Cold Vapour	Modified from EPA 245.7
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Method	Lab	Description	Reference
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Turbidity (A21)	Garson	Determination of Turbidity by Nephelometry	Modified from APHA-2130B
Un-Ionized NH3 (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

REPORT COMMENTS

Compliance

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

WORK ORDER RESULTS

Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Field Parameters	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Field pH	6.79	N/A	pH	~
Field Temp	8	N/A	°C	~

Sample Description	OSNSP		Dup2		FIELD BLANK			
Sample Date	4/30/2023 11:00 AM		4/30/2023		4/30/2023			
Lab ID	1873510		1873511		1873512			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Ammonia (as N)	0.43	0.01					mg/L	~
Free Cyanide	0.002	0.001					mg/L	~
pH	7.5	N/A					pH	~
Total Cyanide	0.006	0.002					mg/L	1
Total Phosphorus (as P)	0.015	0.002					mg/L	~
Turbidity	27.90	0.06	25.20	0.06	0.14 [0.14]	0.06	NTU	~
Un-Ionized Ammonia (Calc.)	<0.002	0.002					mg/L	1

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Sample Description	OSNSP			
Sample Date	4/30/2023 11:00 AM			
Lab ID	1873510			
Mercury by CV	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Mercury	<0.00001	0.00001	mg/L	~

Sample Description	OSNSP			
Sample Date	4/30/2023 11:00 AM			
Lab ID	1873510			
Mercury by CV (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Mercury	<0.00001	0.00001	mg/L	~

Sample Description	OSNSP			
Sample Date	4/30/2023 11:00 AM			
Lab ID	1873510			
Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Aluminum	0.023 [0.023]	0.001	mg/L	~
Dissolved Antimony	<0.0005 [<0.0005]	0.0005	mg/L	~
Dissolved Arsenic	<0.001 [<0.001]	0.001	mg/L	~

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Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Barium	0.019 [0.019]	0.001	mg/L	~
Dissolved Beryllium	<0.0005 [<0.0005]	0.0005	mg/L	~
Dissolved Bismuth	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Boron	<0.002 [<0.002]	0.002	mg/L	~
Dissolved Cadmium	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Calcium	52.4 [51.1]	0.5	mg/L	~
Dissolved Cerium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Cesium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Chromium	0.015 [0.016]	0.001	mg/L	~
Dissolved Chromium [rr]	0.016 [0.016]	0.001	mg/L	~
Dissolved Cobalt	0.0022 [0.0023]	0.0001	mg/L	~
Dissolved Copper	0.004 [0.004]	0.001	mg/L	~
Dissolved Europium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Gallium	<0.001 [0.001]	0.001	mg/L	~
Dissolved Iron	0.31 [0.33]	0.02	mg/L	~
Dissolved Lanthanum	<0.001 [<0.001]	0.001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Lead	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Lithium	<0.005 [<0.005]	0.005	mg/L	~
Dissolved Magnesium	7.040 [7.230]	0.004	mg/L	~
Dissolved Manganese	1.06 [1.01]	0.01	mg/L	~
Dissolved Mercury	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Molybdenum	0.002 [0.002]	0.001	mg/L	~
Dissolved Nickel	0.002 [0.002]	0.001	mg/L	~
Dissolved Niobium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Phosphorus	<0.05 [<0.05]	0.05	mg/L	~
Dissolved Potassium	2.7 [2.8]	0.1	mg/L	~
Dissolved Rhodium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Rubidium	0.004 [0.004]	0.001	mg/L	~
Dissolved Scandium	0.001 [0.001]	0.001	mg/L	~
Dissolved Selenium	<0.0002 [<0.0002]	0.0002	mg/L	~
Dissolved Silicon	2.7 [2.8]	0.6	mg/L	~
Dissolved Silver	<0.0001 [<0.0001]	0.0001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Metals (Dissolved)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Dissolved Sodium	4.2 [4.2]	0.1	mg/L	~
Dissolved Strontium	0.082 [0.082]	0.001	mg/L	~
Dissolved Sulfur	6.5 [7.4]	0.8	mg/L	~
Dissolved Tellurium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Thallium	<0.0001 [<0.0001]	0.0001	mg/L	~
Dissolved Thorium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Tin	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Titanium	0.001 [0.001]	0.001	mg/L	~
Dissolved Tungsten	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Uranium	0.001 [0.001]	0.001	mg/L	~
Dissolved Vanadium	0.001 [0.001]	0.001	mg/L	~
Dissolved Yttrium	<0.001 [<0.001]	0.001	mg/L	~
Dissolved Zinc	0.001 [0.001]	0.001	mg/L	~
Dissolved Zirconium	<0.001 [<0.001]	0.001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Aluminum	0.433 [0.441]	0.001	mg/L	~
Total Antimony	<0.0005 [<0.0005]	0.0005	mg/L	~
Total Arsenic	<0.001 [<0.001]	0.001	mg/L	0.2
Total Barium	0.024 [0.025]	0.001	mg/L	~
Total Beryllium	<0.0005 [<0.0005]	0.0005	mg/L	~
Total Bismuth	<0.001 [<0.001]	0.001	mg/L	~
Total Boron	<0.002 [<0.002]	0.002	mg/L	~
Total Cadmium	0.00008 [0.00006]	0.00002	mg/L	~
Total Calcium	57.0 [57.8]	0.5	mg/L	~
Total Cerium	0.002 [0.002]	0.001	mg/L	~
Total Cesium	<0.001 [<0.001]	0.001	mg/L	~
Total Chromium	0.001 [0.001]	0.001	mg/L	~
Total Chromium [rr]	0.002 [0.002]	0.001	mg/L	~
Total Cobalt	0.0027 [0.0027]	0.0001	mg/L	~
Total Copper	0.007 [0.006]	0.001	mg/L	0.2
Total Europium	<0.001 [<0.001]	0.001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Gallium	<0.001 [<0.001]	0.001	mg/L	~
Total Iron	2.8 [2.8]	0.2	mg/L	~
Total Lanthanum	0.001 [0.001]	0.001	mg/L	~
Total Lead	0.0003 [0.0003]	0.0001	mg/L	0.16
Total Lithium	<0.005 [<0.005]	0.005	mg/L	~
Total Magnesium	7.170 [7.240]	0.004	mg/L	~
Total Manganese	1.19 [1.22]	0.01	mg/L	~
Total Mercury	<0.0001 [<0.0001]	0.0001	mg/L	~
Total Molybdenum	0.002 [0.002]	0.001	mg/L	~
Total Nickel	0.003 [0.003]	0.001	mg/L	0.5
Total Niobium	<0.001 [<0.001]	0.001	mg/L	~
Total Phosphorus	<0.05 [<0.05]	0.05	mg/L	~
Total Potassium	2.9 [2.9]	0.1	mg/L	~
Total Rhodium	<0.001 [<0.001]	0.001	mg/L	~
Total Rubidium	0.005 [0.005]	0.001	mg/L	~
Total Scandium	0.001 [0.001]	0.001	mg/L	~

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Sample Description	OSNSP
Sample Date	4/30/2023 11:00 AM
Lab ID	1873510

Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Selenium	0.0004 [0.0003]	0.0002	mg/L	~
Total Silicon	3.1 [3.2]	0.6	mg/L	~
Total Silver	<0.0001 [<0.0001]	0.0001	mg/L	~
Total Sodium	4.1 [4.1]	0.1	mg/L	~
Total Strontium	0.092 [0.094]	0.001	mg/L	~
Total Sulphur	5.7 [5.7]	0.8	mg/L	~
Total Tellurium	<0.001 [<0.001]	0.001	mg/L	~
Total Thallium	<0.0001 [<0.0001]	0.0001	mg/L	~
Total Thorium	<0.001 [<0.001]	0.001	mg/L	~
Total Tin	<0.001 [<0.001]	0.001	mg/L	~
Total Titanium	0.017 [0.018]	0.001	mg/L	~
Total Tungsten	<0.001 [<0.001]	0.001	mg/L	~
Total Uranium	0.002 [0.002]	0.001	mg/L	~
Total Vanadium	0.001 [0.001]	0.001	mg/L	~
Total Yttrium	<0.001 [<0.001]	0.001	mg/L	~
Total Zinc	0.002 [0.002]	0.001	mg/L	0.8

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Sample Description	OSNSP			
Sample Date	4/30/2023 11:00 AM			
Lab ID	1873510			
Metals (Total)	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Zirconium	0.002 [0.002]	0.001	mg/L	~

Sample Description	OSNSP			
Sample Date	4/30/2023 11:00 AM			
Lab ID	1873510			
Radionuclides	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Radium-226	0.011	0.005	Bq/L	1.11

Sample Description	OSNSP		Dup2		FIELD BLANK			
Sample Date	4/30/2023 11:00 AM		4/30/2023		4/30/2023			
Lab ID	1873510		1873511		1873512			
Solids	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: Cote - Daily, North and South Sedimentation Ponds
Total Suspended Solids	15.3	1.3	11.0	1.3	<0.67	0.67	mg/L	30

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

General Chemistry

Blank: LRB-6 (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0	<0.01	0.03	20230501.A42G

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0	<0.001	0.003	20230508.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0	<0.002	0.006	20230504.TM-KL.A43T5
Turbidity	0.1	NTU	0	0.15	0.3	20230501.TM-G.A21C

Method Blank: Method Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0	0.00542	0.006	20230502.A23.2C

Positive Control: Gel-0to10 (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	5.02	5.29	5.54	20230501.TM-G.A21C

Positive Control: Gel-0to100 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	23	55.9	58.6	20230501.TM-G.A21C

Positive Control: Gel-0to1000 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Turbidity	0.1	NTU	445	470	492	20230501.TM-G.A21C

Positive Control: Lab Control Sample .05 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.04	0.0471	0.06	20230502.A23.2C

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CERTIFICATE OF ANALYSIS

IAMGOLD - Cote Project

Work Order Number: 497282

Positive Control: Lab Control Sample .2 (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.18	0.207	0.22	20230502.A23.2C

Positive Control: LFB-7 (0.25 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.01	mg/L	0.2	0.208	0.3	20230501.A42G

Positive Control: LFRB-5 (0.250 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.213	0.272	0.288	20230508.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0.213	0.26	0.288	20230504.TM-KL.A43T5

Positive Control: LFRB-7 (0.100 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.085	0.115	0.115	20230508.TM-KL.A43F1
Total Cyanide	0.002	mg/L	0.085	0.0943	0.115	20230504.TM-KL.A43T5

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	8.02	8.2	20230501.A2.0C

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	%	0	4.9	20	20230502.A23.2C

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	% Rec	0	0.03	0.2	20230501.A2.0C

Sample Replicate: % RPD (99)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	%	0	6.3	20	20230504.TM-KL.A43T5

Sample Replicate: %RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	%	0	9.4	20	20230501.A42G

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Sample Spike: LFS-9 (Sample Spike) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	% Rec	80	94.9	120	20230501.A42G

Sample Spike: LFSM-9 (0.100 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	N/A	% Rec	80	104	120	20230508.TM-KL.A43F1

Sample Spike: LFSM-9 (0.100 mg/L) (98)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	% Rec	80	94.2	120	20230504.TM-KL.A43T5

Sample Spike: Matrix Spike (UCL 125, LCL 75, New) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Phosphorus (as P)	N/A	% Rec	75	97.6	125	20230502.A23.2C

Mercury by CV

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	2.25E-05	2.58e-005	2.75E-05	20230502.TM-T.A8B

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	9e-006	mg/L	9E-06	1.07e-005	1.1E-05	20230502.TM-T.A8B

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230502.TM-T.A8B

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	0.01	%	85	111	115	20230502.TM-T.A8B

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	2e-006	mg/L	3E-06	5.77e-006	7E-06	20230502.TM-T.A8B

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Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Mercury	N/A	% Rec	85	91.9	115	20230502.TM-T.A8B

Mercury by CV (Dissolved)

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	2.25E-05	2.41e-005	2.75E-05	20230502.TM-T.A8C

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	9e-006	mg/L	9E-06	1e-005	1.1E-05	20230502.TM-T.A8C

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	1e-005	mg/L	0	<1e-005	1E-05	20230502.TM-T.A8C

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	%	85	109	115	20230502.TM-T.A8C

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	2e-006	mg/L	3E-06	5.51e-006	7E-06	20230502.TM-T.A8C

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	% Rec	85	98	115	20230502.TM-T.A8C

Metals (Dissolved)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0	0.00177	0.001	20230502.A13.3L
Dissolved Antimony	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L

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Dissolved Arsenic	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Barium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Beryllium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Bismuth	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Boron	0.002	mg/L	0	<0.002	0.005	20230502.A13.3L
Dissolved Cadmium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Calcium	0.05	mg/L	0	<0.05	0.05	20230502.A13.3L
Dissolved Cerium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Cesium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Chromium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Chromium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3N
Dissolved Cobalt	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Copper	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Europium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Gallium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Iron	0.02	mg/L	0	<0.02	0.02	20230502.A13.3L
Dissolved Lanthanum	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Lead	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Lithium	0.005	mg/L	0	<0.005	0.005	20230502.A13.3L
Dissolved Magnesium	0.004	mg/L	0	<0.004	0.004	20230502.A13.3L
Dissolved Manganese	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230502.A13.3L
Dissolved Molybdenum	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Nickel	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Niobium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Phosphorus	0.05	mg/L	0	<0.05	0.05	20230502.A13.3L
Dissolved Potassium	0.1	mg/L	0	<0.1	0.1	20230502.A13.3L
Dissolved Rubidium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Scandium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Selenium	0.0002	mg/L	0	<0.0002	0.001	20230502.A13.3L
Dissolved Silicon	0.6	mg/L	0	<0.6	0.6	20230502.A13.3L

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Dissolved Silver	0.0001	mg/L	0	<0.0001	0.0001	20230502.A13.3L
Dissolved Sodium	0.1	mg/L	0	<0.1	0.3	20230502.A13.3L
Dissolved Strontium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Sulfur	0.8	mg/L	0	<0.8	0.8	20230502.A13.3L
Dissolved Tellurium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Thallium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Thorium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Tin	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Titanium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Tungsten	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Uranium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Vanadium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Yttrium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Zinc	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L
Dissolved Zirconium	0.001	mg/L	0	<0.001	0.001	20230502.A13.3L

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	80	105	120	20230502.A13.3L
Dissolved Antimony	N/A	%	80	92	120	20230502.A13.3L
Dissolved Arsenic	N/A	%	80	104	120	20230502.A13.3L
Dissolved Barium	N/A	%	80	91.4	120	20230502.A13.3L
Dissolved Beryllium	N/A	%	80	103	120	20230502.A13.3L
Dissolved Boron	N/A	%	80	100	120	20230502.A13.3L
Dissolved Cadmium	N/A	%	80	97.2	120	20230502.A13.3L
Dissolved Calcium	N/A	%	80	98.3	120	20230502.A13.3L
Dissolved Chromium	N/A	%	80	102	120	20230502.A13.3L
Dissolved Chromium	N/A	%	80	104	120	20230502.A13.3N
Dissolved Cobalt	N/A	%	80	101	120	20230502.A13.3L
Dissolved Copper	N/A	%	80	98.2	120	20230502.A13.3L
Dissolved Iron	N/A	%	80	105	120	20230502.A13.3L
Dissolved Lead	N/A	%	80	103	120	20230502.A13.3L

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Dissolved Magnesium	N/A	%	80	97	120	20230502.A13.3L
Dissolved Manganese	N/A	%	80	93.2	120	20230502.A13.3L
Dissolved Mercury	N/A	%	80	90.4	120	20230502.A13.3L
Dissolved Molybdenum	N/A	%	80	105	120	20230502.A13.3L
Dissolved Nickel	N/A	%	80	99	120	20230502.A13.3L
Dissolved Phosphorus	N/A	%	80	91.7	120	20230502.A13.3L
Dissolved Potassium	N/A	%	80	101	120	20230502.A13.3L
Dissolved Selenium	N/A	%	80	100	120	20230502.A13.3L
Dissolved Silicon	N/A	%	80	94.2	120	20230502.A13.3L
Dissolved Sodium	N/A	%	80	93.7	120	20230502.A13.3L
Dissolved Sulfur	N/A	%	80	93.7	120	20230502.A13.3L
Dissolved Thallium	N/A	%	80	98.1	120	20230502.A13.3L
Dissolved Uranium	N/A	%	80	89.9	120	20230502.A13.3L
Dissolved Vanadium	N/A	%	80	103	120	20230502.A13.3L
Dissolved Zinc	N/A	%	80	103	120	20230502.A13.3L

Reference Sample: CRM-12 EP-L-3 (µg/L) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0.0792	0.0978	0.1192	20230502.A13.3L
Dissolved Antimony	0.0005	mg/L	0.0078	0.0102	0.0152	20230502.A13.3L
Dissolved Arsenic	0.001	mg/L	0.0075	0.00989	0.0124	20230502.A13.3L
Dissolved Barium	0.001	mg/L	0.0064	0.00683	0.0097	20230502.A13.3L
Dissolved Beryllium	0.0005	mg/L	0.001	0.00185	0.0029	20230502.A13.3L
Dissolved Boron	0.002	mg/L	0.076	0.0926	0.113	20230502.A13.3L
Dissolved Cadmium	0.0001	mg/L	0.0015	0.00181	0.0024	20230502.A13.3L
Dissolved Calcium	0.05	mg/L	0.273	0.569	0.664	20230502.A13.3L
Dissolved Chromium	0.001	mg/L	0.0094	0.0126	0.0166	20230502.A13.3L
Dissolved Chromium	0.001	mg/L	0.0094	0.0129	0.0166	20230502.A13.3N
Dissolved Cobalt	0.0001	mg/L	0.008	0.0108	0.0122	20230502.A13.3L
Dissolved Copper	0.001	mg/L	0.0123	0.0159	0.02	20230502.A13.3L
Dissolved Lead	0.0001	mg/L	0.00258	0.00427	0.00538	20230502.A13.3L
Dissolved Magnesium	0.004	mg/L	0.041	0.0527	0.071	20230502.A13.3L

Dissolved Manganese	0.001	mg/L	0.0047	0.00548	0.0073	20230502.A13.3L
Dissolved Molybdenum	0.001	mg/L	0.01746	0.0222	0.02644	20230502.A13.3L
Dissolved Nickel	0.001	mg/L	0.0154	0.0197	0.0241	20230502.A13.3L
Dissolved Potassium	0.1	mg/L	0.323	0.393	0.497	20230502.A13.3L
Dissolved Selenium	0.001	mg/L	0.0461	0.0542	0.0708	20230502.A13.3L
Dissolved Sodium	0.1	mg/L	0.145	0.226	0.345	20230502.A13.3L
Dissolved Strontium	0.001	mg/L	0.106	0.136	0.17	20230502.A13.3L
Dissolved Thallium	0.0001	mg/L	0.004678	0.00611	0.007122	20230502.A13.3L
Dissolved Uranium	0.001	mg/L	0.0036	0.00425	0.00687	20230502.A13.3L
Dissolved Vanadium	0.001	mg/L	0.01096	0.0138	0.01644	20230502.A13.3L
Dissolved Zinc	0.001	mg/L	0.0341	0.0398	0.0515	20230502.A13.3L

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	0	0	20	20230502.A13.3L
Dissolved Barium	N/A	%	0	0	20	20230502.A13.3L
Dissolved Calcium	N/A	%	0	2.5	20	20230502.A13.3L
Dissolved Chromium	N/A	%	0	0	20	20230502.A13.3N
Dissolved Chromium	N/A	%	0	6.5	20	20230502.A13.3L
Dissolved Cobalt	N/A	%	0	4.4	20	20230502.A13.3L
Dissolved Iron	N/A	%	0	5.6	20	20230502.A13.3L
Dissolved Magnesium	N/A	%	0	2.7	20	20230502.A13.3L
Dissolved Manganese	N/A	%	0	4.8	20	20230502.A13.3L
Dissolved Potassium	N/A	%	0	1.8	20	20230502.A13.3L
Dissolved Sodium	N/A	%	0	0.2	20	20230502.A13.3L
Dissolved Strontium	N/A	%	0	0	20	20230502.A13.3L

Sample Spike: LFSM-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	% Rec	70	114	130	20230502.A13.3L
Dissolved Antimony	N/A	% Rec	70	105	130	20230502.A13.3L
Dissolved Arsenic	N/A	% Rec	70	117	130	20230502.A13.3L
Dissolved Barium	N/A	% Rec	70	103	130	20230502.A13.3L

Dissolved Beryllium	N/A	% Rec	70	125	130	20230502.A13.3L
Dissolved Cadmium	N/A	% Rec	70	116	130	20230502.A13.3L
Dissolved Chromium	N/A	% Rec	70	103	130	20230502.A13.3L
Dissolved Chromium	N/A	% Rec	70	106	130	20230502.A13.3N
Dissolved Cobalt	N/A	% Rec	70	109	130	20230502.A13.3L
Dissolved Copper	N/A	% Rec	70	102	130	20230502.A13.3L
Dissolved Iron	N/A	% Rec	70	106	130	20230502.A13.3L
Dissolved Lead	N/A	% Rec	70	107	130	20230502.A13.3L
Dissolved Manganese	N/A	% Rec	70	102	130	20230502.A13.3L
Dissolved Molybdenum	N/A	% Rec	70	93	130	20230502.A13.3L
Dissolved Nickel	N/A	% Rec	70	111	130	20230502.A13.3L
Dissolved Selenium	N/A	% Rec	70	122	130	20230502.A13.3L
Dissolved Thallium	N/A	% Rec	70	106	130	20230502.A13.3L
Dissolved Vanadium	N/A	% Rec	70	110	130	20230502.A13.3L
Dissolved Zinc	N/A	% Rec	70	115	130	20230502.A13.3L

Metals (Total)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Antimony	0.0005	mg/L	0	<0.0005	0.001	20230502.A13.2G
Total Arsenic	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Barium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Beryllium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Bismuth	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Boron	0.002	mg/L	0	0.00201	0.005	20230502.A13.2G
Total Cadmium	0.0001	mg/L	0	<0.0001	0.0003	20230502.A13.2G
Total Calcium	0.05	mg/L	0	<0.05	0.05	20230502.A13.2G
Total Cerium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Cesium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Chromium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G

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Total Chromium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2J
Total Cobalt	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Copper	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Europium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Gallium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Iron	0.02	mg/L	0	<0.02	0.06	20230502.A13.2G
Total Lanthanum	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Lead	0.0005	mg/L	0	<0.0005	0.001	20230502.A13.2G
Total Lithium	0.005	mg/L	0	<0.005	0.005	20230502.A13.2G
Total Magnesium	0.004	mg/L	0	<0.004	0.012	20230502.A13.2G
Total Manganese	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Mercury	0.0001	mg/L	0	<0.0001	0.0001	20230502.A13.2G
Total Molybdenum	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Nickel	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Niobium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Phosphorus	0.05	mg/L	0	<0.05	0.05	20230502.A13.2G
Total Potassium	0.1	mg/L	0	<0.1	0.1	20230502.A13.2G
Total Rubidium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Scandium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Selenium	0.0002	mg/L	0	<0.0002	0.001	20230502.A13.2G
Total Silicon	0.6	mg/L	0	<0.6	0.6	20230502.A13.2G
Total Silver	0.0001	mg/L	0	<0.0001	0.0003	20230502.A13.2G
Total Sodium	0.1	mg/L	0	<0.1	0.3	20230502.A13.2G
Total Strontium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Sulphur	0.8	mg/L	0	<0.8	0.8	20230502.A13.2G
Total Tellurium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Thallium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Thorium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Tin	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Titanium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Tungsten	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G

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Total Uranium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Vanadium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Yttrium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Zinc	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G
Total Zirconium	0.001	mg/L	0	<0.001	0.001	20230502.A13.2G

Positive Control: EP-L-3 (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	0.001	mg/L	0.077	0.11	0.137	20230502.A13.2G
Total Antimony	0.0005	mg/L	0.0078	0.0105	0.0152	20230502.A13.2G
Total Arsenic	0.001	mg/L	0.0075	0.00967	0.0124	20230502.A13.2G
Total Barium	0.001	mg/L	0.0064	0.00818	0.0097	20230502.A13.2G
Total Beryllium	0.0005	mg/L	0.001	0.00176	0.0029	20230502.A13.2G
Total Boron	0.002	mg/L	0.076	0.0868	0.113	20230502.A13.2G
Total Cadmium	0.0001	mg/L	0.0015	0.00183	0.0024	20230502.A13.2G
Total Calcium	0.05	mg/L	0.273	0.531	0.664	20230502.A13.2G
Total Chromium	0.001	mg/L	0.0094	0.0135	0.0166	20230502.A13.2J
Total Chromium	0.001	mg/L	0.0094	0.0142	0.0166	20230502.A13.2G
Total Cobalt	0.0001	mg/L	0.008	0.0119	0.0122	20230502.A13.2G
Total Copper	0.001	mg/L	0.0123	0.0174	0.02	20230502.A13.2G
Total Lead	0.0005	mg/L	0.00258	0.00414	0.00538	20230502.A13.2G
Total Magnesium	0.004	mg/L	0.041	0.059	0.071	20230502.A13.2G
Total Manganese	0.001	mg/L	0.0047	0.00648	0.0073	20230502.A13.2G
Total Molybdenum	0.001	mg/L	0.01746	0.0227	0.02644	20230502.A13.2G
Total Nickel	0.001	mg/L	0.0154	0.0205	0.0241	20230502.A13.2G
Total Potassium	0.1	mg/L	0.323	0.439	0.497	20230502.A13.2G
Total Selenium	0.0005	mg/L	0.0461	0.0488	0.0708	20230502.A13.2G
Total Sodium	0.1	mg/L	0.145	0.252	0.345	20230502.A13.2G
Total Strontium	0.001	mg/L	0.106	0.141	0.17	20230502.A13.2G
Total Thallium	0.0001	mg/L	0.004678	0.00616	0.007122	20230502.A13.2G
Total Uranium	0.001	mg/L	0.0036	0.00523	0.00687	20230502.A13.2G
Total Vanadium	0.001	mg/L	0.01096	0.0151	0.01644	20230502.A13.2G

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Total Zinc	0.001	mg/L	0.0341	0.0381	0.0515	20230502.A13.2G

Positive Control: LFB-7 (N 100 ug/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	80	107	120	20230502.A13.2G
Total Antimony	N/A	%	80	93.4	120	20230502.A13.2G
Total Arsenic	N/A	%	80	97.3	120	20230502.A13.2G
Total Barium	N/A	%	80	104	120	20230502.A13.2G
Total Beryllium	N/A	%	80	95.1	120	20230502.A13.2G
Total Boron	N/A	%	80	114	120	20230502.A13.2G
Total Cadmium	N/A	%	80	95.4	120	20230502.A13.2G
Total Calcium	N/A	%	80	101	120	20230502.A13.2G
Total Chromium	N/A	%	80	107	120	20230502.A13.2G
Total Chromium	N/A	%	80	107	120	20230502.A13.2J
Total Cobalt	N/A	%	80	106	120	20230502.A13.2G
Total Copper	N/A	%	80	104	120	20230502.A13.2G
Total Iron	N/A	%	80	115	120	20230502.A13.2G
Total Lead	N/A	%	80	103	120	20230502.A13.2G
Total Magnesium	N/A	%	80	99.1	120	20230502.A13.2G
Total Manganese	N/A	%	80	107	120	20230502.A13.2G
Total Mercury	N/A	%	80	92.7	120	20230502.A13.2G
Total Molybdenum	N/A	%	80	102	120	20230502.A13.2G
Total Nickel	N/A	%	80	105	120	20230502.A13.2G
Total Phosphorus	N/A	%	80	92.7	120	20230502.A13.2G
Total Potassium	N/A	%	80	104	120	20230502.A13.2G
Total Selenium	N/A	%	80	88	120	20230502.A13.2G
Total Silicon	N/A	%	80	97.9	120	20230502.A13.2G
Total Sodium	N/A	%	80	94.6	120	20230502.A13.2G
Total Sulphur	N/A	%	80	98.1	120	20230502.A13.2G
Total Thallium	N/A	%	80	103	120	20230502.A13.2G
Total Uranium	N/A	%	80	108	120	20230502.A13.2G
Total Vanadium	N/A	%	80	109	120	20230502.A13.2G

Total Zinc	N/A	%	80	92.4	120	20230502.A13.2G

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	%	0	1.8	20	20230502.A13.2G
Total Barium	N/A	%	0	4.1	20	20230502.A13.2G
Total Calcium	N/A	%	0	1.4	20	20230502.A13.2G
Total Cobalt	N/A	%	0	0	20	20230502.A13.2G
Total Iron	N/A	%	0	0	20	20230502.A13.2G
Total Magnesium	N/A	%	0	1	20	20230502.A13.2G
Total Manganese	N/A	%	0	2.5	20	20230502.A13.2G
Total Potassium	N/A	%	0	1	20	20230502.A13.2G
Total Sodium	N/A	%	0	1.2	20	20230502.A13.2G
Total Strontium	N/A	%	0	2.2	20	20230502.A13.2G
Total Titanium	N/A	%	0	5.7	20	20230502.A13.2G

Sample Spike: LFSM-9 (N 100 ug/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Aluminum	N/A	% Rec	70	114	130	20230502.A13.2G
Total Antimony	N/A	% Rec	70	100	130	20230502.A13.2G
Total Arsenic	N/A	% Rec	70	107	130	20230502.A13.2G
Total Barium	N/A	% Rec	70	105	130	20230502.A13.2G
Total Beryllium	N/A	% Rec	70	100	130	20230502.A13.2G
Total Cadmium	N/A	% Rec	70	102	130	20230502.A13.2G
Total Chromium	N/A	% Rec	70	105	130	20230502.A13.2J
Total Chromium	N/A	% Rec	70	113	130	20230502.A13.2G
Total Cobalt	N/A	% Rec	70	110	130	20230502.A13.2G
Total Copper	N/A	% Rec	70	105	130	20230502.A13.2G
Total Iron	N/A	% Rec	70	103	130	20230502.A13.2G
Total Lead	N/A	% Rec	70	104	130	20230502.A13.2G
Total Manganese	N/A	% Rec	70	103	130	20230502.A13.2G
Total Molybdenum	N/A	% Rec	70	107	130	20230502.A13.2G
Total Nickel	N/A	% Rec	70	107	130	20230502.A13.2G

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Total Selenium	N/A	% Rec	70	98.5	130	20230502.A13.2G
Total Thallium	N/A	% Rec	70	105	130	20230502.A13.2G
Total Vanadium	N/A	% Rec	70	112	130	20230502.A13.2G
Total Zinc	N/A	% Rec	70	103	130	20230502.A13.2G

Radionuclides

Blank: LMB (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0	<0.005	0.005	20230509.TM-G.A129B

Positive Control: LFMB-1 (0.05) (71)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0598	0.06	20230509.TM-G.A129B

Positive Control: LFMB-2 (0.05) (72)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	0.005	Bq/L	0.04	0.0579	0.06	20230509.TM-G.A129B

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	%	0	3.23	20	20230509.TM-G.A129B

Sample Spike: LFSM (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Radium-226	N/A	% Rec	75	116	125	20230509.TM-G.A129B

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230501.TM-G.A27J
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230501.TM-G.A27K

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Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	217	287.5	20230501.TM-G.A27J
Total Suspended Solids	2	mg/L	212.5	219	287.5	20230501.TM-G.A27K

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
Dup2	1873511	TSS (A27)	20230501.TM-G.A27K	
Dup2	1873511	Turbidity (A21)	20230501.TM-G.A21C	
FIELD BLANK	1873512	TSS (A27)	20230501.TM-G.A27K	
FIELD BLANK	1873512	Turbidity (A21)	20230501.TM-G.A21C	
FIELD BLANK	1873512r	Turbidity (A21)	20230501.TM-G.A21C	
OSNSP	1873510	Ammonia Water (A42)	20230501.A42G	
OSNSP	1873510	Field pH (R112)	20230501.R112R	
OSNSP	1873510	Field Temp (R113)	20230501.R113R	
OSNSP	1873510	Free CN Water (A43)	20230508.TM-KL.A43F1	
OSNSP	1873510	ICPMS Dis. Water (A13.3)	20230502.A13.3L	20230502.A52I
OSNSP	1873510	ICPMS Dis. Water (A13.3)	20230502.A13.3L	20230502.A52ZC
OSNSP	1873510	ICPMS Dis. Water (A13.3)	20230502.A13.3N	20230502.A52I
OSNSP	1873510	ICPMS Dis. Water (A13.3)	20230502.A13.3N	20230502.A52ZC
OSNSP	1873510	ICPMS Tot. Water (A13.2)	20230502.A13.2G	20230501.A52ZF
OSNSP	1873510	ICPMS Tot. Water (A13.2)	20230502.A13.2G	20230502.A52ZB
OSNSP	1873510	ICPMS Tot. Water (A13.2)	20230502.A13.2J	20230501.A52ZF
OSNSP	1873510	ICPMS Tot. Water (A13.2)	20230502.A13.2J	20230502.A52ZB
OSNSP	1873510	Mercury CV Water (S8)	20230502.TM-T.A8B	
OSNSP	1873510	Mercury Dis. Water CV (S8)	20230502.TM-T.A8C	
OSNSP	1873510	pH of Water (A2.0)	20230501.A2.0C	
OSNSP	1873510	Ra226 (A129)	20230509.TM-G.A129B	
OSNSP	1873510	Total CN Water (A43)	20230504.TM-KL.A43T5	
OSNSP	1873510	TP Water (A23.2)	20230502.A23.2C	
OSNSP	1873510	TSS (A27)	20230501.TM-G.A27J	

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OSNSP	1873510	Turbidity (A21)	20230501.TM-G.A21C	
OSNSP	1873510	Un-Ionized NH3 (A42.4)	20230501.TM-G.A42.4B	
OSNSP	1873510r	ICPMS Dis. Water (A13.3)	20230502.A13.3L	20230502.A52I
OSNSP	1873510r	ICPMS Dis. Water (A13.3)	20230502.A13.3L	20230502.A52ZC
OSNSP	1873510r	ICPMS Dis. Water (A13.3)	20230502.A13.3N	20230502.A52I
OSNSP	1873510r	ICPMS Dis. Water (A13.3)	20230502.A13.3N	20230502.A52ZC
OSNSP	1873510r	ICPMS Tot. Water (A13.2)	20230502.A13.2G	20230501.A52ZF
OSNSP	1873510r	ICPMS Tot. Water (A13.2)	20230502.A13.2G	20230502.A52ZB
OSNSP	1873510r	ICPMS Tot. Water (A13.2)	20230502.A13.2J	20230501.A52ZF
OSNSP	1873510r	ICPMS Tot. Water (A13.2)	20230502.A13.2J	20230502.A52ZB

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