[007274/26.A], [2026/10/21]

Certificate of Analysis

Project details

Customer Details

Invoice Category	400.001
Customer reference:	IRMA WATER TESTING
Quotation number:	Q1103357_1
Company name:	KAMATIVI MINING COMPANY (PVT) LTD
Contact address:	4A, 2 LONA CLOSE, BORROWDALE ROAD, HARARE
Contact person:	MR ZHONG

Sampling Details

Sampled by:	CUSTOMER
Sampled date:	2026/08/14

Sample Details

Sample type(s):	WASTE WATER SAMPLES
Date received:	2026/08/26
Delivered by:	CUSTOMER
Sample condition:	INCORRECT BOTTLE TYPE, SPLIT SAMPLE MADE
Temperature at sample receipt (°C):	22.1
Deviations:	021866/26 - Inappropriate bottle type submitted for bacteriological testing

Report Details

Testing commenced:	2026/08/26
Testing completed:	2026/10/21
Report date:	2026/10/21
Our reference:	007274/26.A

Analytical Results

Methods	Determinands	Units	021866/26
			IRMA WATER TESTING: MINE WATER 03 14.08.2026
Chemical			
233-2	Dissolved Calcium	mg Ca/ℓ	32
233-2	Dissolved Potassium	mg K/ℓ	2.02
233-2	Dissolved Sodium	mg Na/ℓ	81
234-1	Dissolved Silver	µg Ag/ℓ	11.8
234-1	Dissolved Aluminium	µg Al/ℓ	5.47
232-1	Dissolved Arsenic	µg As/ℓ	2.02
234-1	Dissolved Boron	µg B/ℓ	128
234-1	Dissolved Barium	µg Ba/ℓ	16.2
234-1	Dissolved Beryllium	µg Be/ℓ	<5
234-1	Dissolved Cadmium	µg Cd/ℓ	<0.625
234-1	Dissolved Cobalt	µg Co/ℓ	<1.25
Calc.	Trivalent Chromium	mg/ℓ	<0.02
234-1	Dissolved Copper	µg Cu/ℓ	<10
234-1	Dissolved Iron	µg Fe/ℓ	11.9
232-1	Dissolved Mercury	µg Hg/ℓ	<1
234-1	Dissolved Lithium	µg Li/ℓ	75
234-1	Dissolved Manganese	µg Mn/ℓ	15.5
234-1	Dissolved Molybdenum	µg Mo/ℓ	<5
234-1	Dissolved Nickel	µg Ni/ℓ	<2.5
234-1	Dissolved Lead	µg Pb/ℓ	<10
232-1	Dissolved Antimony	µg Sb/ℓ	<1
232-1	Dissolved Selenium	µg Se/ℓ	<12.5
-	Dissolved Thorium*	mg Th/ℓ	<0.001#
234-1	Dissolved Uranium	µg U/ℓ	32
234-1	Dissolved Vanadium	µg V/ℓ	<1.25
234-1	Dissolved Zinc	µg Zn/ℓ	134
233-1	Total Phosphorus	mg P/ℓ	<0.5
10G3	Total Alkalinity	mg $CaCO_3$/ℓ	274
16G3	Chloride	mg Cl/ℓ	25
122	Free Chlorine*	mg Cl_2/ℓ	<0.1

Methods	Determinands	Units	021866/26
			IRMA WATER TESTING: MINE WATER 03 14.08.2026
Chemical			
-	Cyanide (WAD)*	µg CN/ℓ	<10
18G3	Fluoride	mg F/ℓ	0.62
Calc.	Hydrogen Sulphide*	mg H_2S/ℓ	<0.0425
64G3	Total Ammonia	mg N/ℓ	<0.25
65Gc3	Nitrate	mg N/ℓ	<0.5
65Ga3	Nitrate/Nitrite	mg N/ℓ	0.73
65Gb3	Nitrite	mg N/ℓ	<0.25
1	pH at 25°C	pH units	6.8
67G3	Sulphate	mg SO_4/ℓ	21
5	Suspended Solids at 105°C	mg/ℓ	<18
41	Total Dissolved Solids at 180°C	mg/ℓ	304
Calc.	Total Hardness	mg $CaCO_3$/ℓ	153
Microbiological			
32	*E.coli*	MPN/100mℓ	1
32	Faecal Coliforms*	MPN/100mℓ	2
Organics			
104	Soluble Organic Carbon	mg C/ℓ	3.1

Refer to the “Notes” section at the end of this report for further explanations.

Where a deviation has been noted, the validity of the results may be affected. Results should be used with this consideration in mind.

Specific Observations

None

Quality Assurance

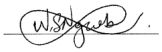
Technical signatories



Inorganic Chemistry: Sipho Mgabhi



Microbiology: Nothile Phiri



Organic Chemistry: Wanda Mbokazi

Notes to this report

Limitations

This report shall not be reproduced except in full without prior written approval of the laboratory.
Results in this report relate only to the samples as taken, and the condition received by the laboratory.
Any opinions and interpretations expressed herein are outside the scope of SANAS accreditation.
Sample preparation may require filtration, dilution, digestion or similar. Final results are reported accordingly.
Where the laboratory has undertaken the sampling, the location of sampling and sampling plan are available on request. Talbot is guided by the National Standards SANS 5667-1:2008 Part 1 Guidance on the Design of Sampling Programmes and Sampling Techniques and SANS 5667-3:2008 Part 3 Guidance on the Preservation and Handling of Water Samples.

Customers to contact Talbot Laboratories for further information.

Uncertainty of measurement

The reported uncertainty of measurement is based on a standard uncertainty multiplied by a coverage factor of =2, which, unless otherwise specifically stated, provides a level of confidence of approximately 95%.
Uncertainty of measurement is available here.

Decision Rule

Talbot Laboratories (Pty) Ltd shall apply the following decision rule in assessing the conformity of test results to the
specification on the test report:

- A binary rule (pass / fail) based on a guard band as referenced in ILAC G8_09_2019; shall apply to results. This has a global false acceptance risk of 2%.
- Statements of conformity are reported as:
  Passed - The measured values were observed within tolerance at the points tested.
  Failed - The measured values were either observed out of tolerance at the points tested.
- Based on the laboratory's decision rule, all results in bold font are deemed non-compliant to the defined
  specification per determinand, where applicable.
- The decision rule will only be applied to accredited method results.
- In instances when a statement of conformity is not required, test results are reported as an absolute value.

Analysis explanatory notes

Tests may be marked as follows:

^	Tests conducted at our Pretoria satellite laboratory (1 Sydney Brenner St, Lynwood, Pretoria, 0087).
s	Tests conducted at our PMB satellite laboratory (20 Pentrich Road, Pietermaritzburg, South Africa, 3200).
*	Tests not included in our Schedule of Accreditation and therefore that are not SANAS accredited.
#	Tests that have been sub-contracted to a peer laboratory.
NR	Not required -shown, for example, where the schedule of analysis varied between samples.
σ	ISO 9001 Certified testing.
a	Testing has deviated from Method.

**********End of Report**********