

Name: Khayakazi Nonkonyana
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ELIDZ Environmental Chemistry Laboratory

Certificate Of Analysis

Report NO:	EC-2026-00791	Sample Description:	Potable Water
Customer:	Makana Municipality	No. of Samples:	02
Address:	City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition:	Cold
Contact:	Siphokazi Shicilela Somagu	Sample Identification:	Riebeek East WTW
Phone:	046 603 6068	Date Received:	18-Sep-2026
Fax:	046 6229 488	Test Date:	18-Sep-2026
Order No:		Date Completed:	06-Oct-2026

				SAMPLE IDENTIFICATION	
				EC-2026-00791-01 Riebeek East WTW Raw	EC-2026-00791-02 Riebeek East WTW Final
Analysis	Unit	Method	UoM		
Chloride	mg/L	MM-CHE026	0.039	70.0	113
Total Alkalinity	mg/L as CaCO ₃	MM-CHE027	2.41	39.1	43.4
Aluminium	µg/l	Sub	4.9	<40	<40
Calcium	mg/l as Ca	Sub	5.6	6.7	8.1
Chlorine (free) *	mg/L	MM-CHE021		0.12	0.10
Electrical conductivity	mS/M	MM-CHE002	3.31	40.3	55.2
Iron	µg/l	Sub	4.9	11943	245
Magnesium	mg/l	Sub	5.1	12.8	14.4
Manganese	µg/l	Sub	5.6	754	283
Turbidity	NTU	MM-CHE008	5.80	14.5	1.22
pH	pH units	MM-CHE005	0.145	6.35	7.51
Sulphate	mg/l as SO ₄	MM-CHE014	0.15	18.6	23.0
Temperature	°C	MM-CHE005		23.1	23.2

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Report NO:	EC-2026-00792	Sample Description:	Potable Water
Customer:	Makana Municipality	No. of Samples	02
Address:	City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition:	Cold
Contact:	Siphokazi Shicilela Somagu	Sample Identification:	James Klynhanns WTW
Phone:	046 603 6068	Date Received:	18-Sep-2026
Fax:	046 6229 488	Test Date:	18-Sep-2026
Order No:		Date Completed:	06-Oct-2026

				SAMPLE IDENTIFICATION	
				EC-2026-00792-01 James Klynhanns WTW Raw	EC-2026-00792-02 James Klynhanns WTW Final
Analysis	Unit	Method	UoM		
Chloride	mg/L	MM-CHE026	0.039	169	180
Total Alkalinity	mg/L as CaCO ₃	MM-CHE027	2.41	250	238
Aluminium	µg/l	Sub	4.9	318	<40
Calcium	mg/l as Ca	Sub	5.6	44.8	45.3
Chlorine (free) *	mg/L	MM-CHE021		0.14	0.07
Electrical conductivity	mS/M	MM-CHE002	3.31	116	118
Iron	µg/l	Sub	4.9	363	<20
Magnesium	mg/l	Sub	5.1	32.1	31.8
Manganese	µg/l	Sub	5.6	33.0	<20
Turbidity	NTU	MM-CHE008	5.80	44.5	0.48
pH	pH units	MM-CHE005	0.145	8.43	8.14
Sulphate	mg/l as SO ₄	MM-CHE014	0.15	72.3	70.5
Temperature	°C	MM-CHE005		22.7	22.6

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Certificate Of Analysis

Report NO: EC-2026-00793	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 18-Sep-2026 Test Date: 18-Sep-2026
Order No:	Date Completed: 06-Oct-2026

				SAMPLE IDENTIFICATION			
				EC-2026-00793-01 Waainek WTW Raw	EC-2026-00793-02 Waainek WTW Final	EC-2026-00793-03 Extension 7 Clinic	EC-2026-00793-04 Tantyi Clinic
Analysis	Unit	Method	UoM				
Chloride	mg/L	MM-CHE026	0.039	42.5	45.5	174	176
Total Alkalinity	mg/L as CaCO ₃	MM-CHE027	2.41	8.44	<7.21	237	237
Aluminium	µg/l	Sub	4.9	77.0	<40	<40	<40
Calcium	mg/l as Ca	Sub	5.6	2.6	4.5	43.8	44.6
Chlorine (free) *	mg/L	MM-CHE021		0.10	1.3	0.07	0.06
Electrical conductivity	mS/M	MM-CHE002	3.31	12.7	13.6	117	116
Iron	µg/l	Sub	4.9	663	44.0	<20	<20
Magnesium	mg/l	Sub	5.1	3.6	3.4	31.3	32.2
Manganese	µg/l	Sub	5.6	<20	<20	<20	<20
Turbidity	NTU	MM-CHE008	5.80	22.4	1.82	0.21	0.25
pH	pH units	MM-CHE005	0.145	6.94	7.02	8.14	8.28
Sulphate	mg/l as SO ₄	MM-CHE014	0.15	10.3	9.69	70.4	69.6
Temperature	°C	MM-CHE005		22.8	22.7	22.8	22.1

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Report NO:	EC-2026-00793	Sample Description:	Potable Water
Customer:	Makana Municipality	No. of Samples:	12
Address:	City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition:	Cold
Contact:	Siphokazi Shicilela Somagu	Sample Identification:	Grahamstown
Phone:	046 603 6068	Date Received:	18-Sep-2026
Fax:	046 6229 488	Test Date:	18-Sep-2026
Order No:		Date Completed:	06-Oct-2026

				SAMPLE IDENTIFICATION			
				EC-2026-00793-05	EC-2026-00793-06	EC-2026-00793-07	EC-2026-00793-08
				Black beard street	Nyaluza High School	George Dickerson Primary School	Raglan Road Clinic
Analysis	Unit	Method	UoM				
Chloride	mg/L	MM-CHE026	0.039	173	160	145	161
Total Alkalinity	mg/L as CaCO ₃	MM-CHE027	2.41	240	242	210	244
Aluminium	µg/l	Sub	4.9	<40	<40	<40	<40
Calcium	mg/l as Ca	Sub	5.6	44.0	44.3	39.5	44.9
Chlorine (free) *	mg/L	MM-CHE021		0.06	0.06	0.09	0.09
Electrical conductivity	mS/M	MM-CHE002	3.31	117	116	103	117
Iron	µg/l	Sub	4.9	<20	<20	<20	<20
Magnesium	mg/l	Sub	5.1	31.3	32.0	28.1	31.6
Manganese	µg/l	Sub	5.6	<20	<20	<20	<20
Turbidity	NTU	MM-CHE008	5.80	0.20	0.18	1.02	0.24
pH	pH units	MM-CHE005	0.145	8.23	8.21	8.43	8.22
Sulphate	mg/l as SO ₄	MM-CHE014	0.15	70.0	71.8	92.2	73.2
Temperature	°C	MM-CHE005		22.0	22.8	22.5	22.8

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Customer:	Makana Municipality	No. of Samples:	12
Address:	City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition:	Cold
Contact:	Siphokazi Shicilela Somagu	Sample Identification:	Grahamstown
Phone:	046 603 6068	Date Received:	18-Sep-2026
Fax:	046 6229 488	Test Date:	18-Sep-2026
Order No:		Date Completed:	06-Oct-2026

				SAMPLE IDENTIFICATION			
				EC-2026-00793-09 Joza Clinic	EC-2026-00793-10 Healthcare Office	EC-2026-00793-11 Extension 10 tap	EC-2026-00793-12 J-Street tap
Analysis	Unit	Method	UoM				
Chloride	mg/L	MM-CHE026	0.039	161	37.5	161	158
Total Alkalinity	mg/L as CaCO ₃	MM-CHE027	2.41	243	11.4	239	240
Aluminium	µg/l	Sub	4.9	<40	60.9	<40	<40
Calcium	mg/l as Ca	Sub	5.6	44.6	4.2	44.5	44.1
Chlorine (free) *	mg/L	MM-CHE021		0.07	0.07	0.07	0.06
Electrical conductivity	mS/M	MM-CHE002	3.31	118	13.8	116	117
Iron	µg/l	Sub	4.9	<20	30.4	<20	<20
Magnesium	mg/l	Sub	5.1	32.2	3.6	32.3	31.3
Manganese	µg/l	Sub	5.6	<20	<20	<20	<20
Turbidity	NTU	MM-CHE008	5.80	0.20	1.37	0.20	0.19
pH	pH units	MM-CHE005	0.145	8.28	7.62	8.16	8.24
Sulphate	mg/l as SO ₄	MM-CHE014	0.15	115	12.7	97.9	73.0
Temperature	°C	MM-CHE005		22.7	22.8	22.0	22.1

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Report NO:	EM-2026-01215	Sample Description:	Potable Water
Customer:	Makana Municipality	No. of Samples	02
Address:	City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition:	Cold
Contact:	Siphokazi Shicilela Somagu	Sample Identification:	Riebeek East
Phone:	046 603 6068	Date Received:	18-Sept-2026
Fax:	046 6229 488	Test Date:	18-Sept-2026
Order No:		Date Completed:	23-Sept-2026

				SAMPLE IDENTIFICATION	
				EM-2026-01215-01	EM-2026-01215-02
				Raw Riebeek East	Final Riebeek East
Analysis	Unit	Method	UoM		
E. coli	MPN/100mL	MM-MIC002	0.067	276	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	276	<1

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Certificate Of Analysis

Report NO: EM-2026-01216	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: James Kleynhans
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 18-Sept-2026 Test Date: 18-Sept-2026
Order No:	Date Completed: 23-Sept-2026

				SAMPLE IDENTIFICATION	
				EM-2026-01216-01	EM-2026-01216-02
				Raw James Kleynhans	Final James Kleynhans
Analysis	Unit	Method	UoM		
E. coli	MPN/100mL	MM-MIC002	0.067	5	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	>2420	<1

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Report NO: EM-2026-01217	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 18-Sept-2026 Test Date: 18-Sept-2026
Order No:	Date Completed: 23-Sept-2026

				SAMPLE IDENTIFICATION			
				EM-2026-01217-01 Raw Waainek	EM-2026-01217-02 Final Waainek	EM-2026-01217-03 Nyaluza High School	EM-2026-01217-04 Tanjie Clinic
Analysis	Unit	Method	UoM				
E. coli	MPN/100mL	MM-MIC002	0.067	23	<1	<1	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	816	<1	32	2

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Report NO: EM-2026-01217	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 18-Sept-2026 Test Date: 18-Sept-2026
Order No:	Date Completed: 23-Sept-2026

				SAMPLE IDENTIFICATION			
				EM-2026-01217-05 Healthcare Office	EM-2026-01217-06 J-Street	EM-2026-01217-07 Extension 7 Clinic	EM-2026-01217-08 Raglan Road Clinic
Analysis	Unit	Method	UoM				
E. coli	MPN/100mL	MM-MIC002	0.067	<1	<1	<1	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	<1	<1	<1	1

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A copy of the original of this certificate is available from the ELIDZ on request. This certificate is issued without any alteration or erasure.

Name: Khayakazi Nonkonyana
Tel: 043 702 8209/043 101 0750
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Certificate Of Analysis

Report NO:	EM-2026-01217	Sample Description:	Potable Water
Customer:	Makana Municipality	No. of Samples	12
Address:	City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition:	Cold
Contact:	Siphokazi Shicilela Somagu	Sample Identification:	Grahamstown
Phone:	046 603 6068	Date Received:	18-Sept-2026
Fax:	046 6229 488	Test Date:	18-Sept-2026
Order No:		Date Completed:	23-Sept-2026

				SAMPLE IDENTIFICATION			
				EM-2026-01217-09 Joza Clinic	EM-2026-01217-10 Blackbeard street	EM-2026-01217-11 Extension 10 tap	EM-2026-01217-12 George Dickerson Primary School
Analysis	Unit	Method	UoM				
E. coli	MPN/100mL	MM-MIC002	0.067	<1	<1	<1	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	>2420	<1	129	<1

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Certificate Of Analysis

Report NO: EM-2026-01280	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Alicedale
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 01-Oct-2026 Test Date: 01-Oct-2026
Order No:	Date Completed: 02-Oct-2026

				SAMPLE IDENTIFICATION	
Lab No Sample ID				EM-2026-01280-01 Alicedale Raw	EM-2026-01280-02 Alicedale Final
Analysis	Unit	Method	UoM		
E. coli	MPN/100mL	MM-MIC002	0.067	3	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	345	<1

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