CAPRICORN VETERINARY LABORATORIES
ANALYTICAL & DIAGNOSTIC LABORATORY SERVICES

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LABORATORY TEST REPORT

WATER CHEMISTRY:

Your ref: None
Our ref: 21/04/1451
Enquiries: 015 297-6666
Date report issued: 2021/04/15

Sender/ Client:	Water Legend	**Owner:**	Ref sender
Person sent:	Johan	**Sample origin:**	On site – Sekgopo-Malatji Sekgopo-Makhabeni
Postal:	26 Railway street Polokwane 0669	**Postal:**	Ref sender Ref sender Ref sender
Tel:	071 158 4636	**Tel:**	Ref sender
E-mail:	jmeiring86.jm@gmail.com	**E-mail:**	Ref sender

Water

1. Samples received:
2 x ground water sample(s) as indicated in Table 1.

1.1 Date sample(s) received: 2021/04/12
1.2 Time sample(s) received: 13h48
1.3 Date test(s) started: 2021/04/12
1.4 Date report completed: 2021/04/15

2. Required test(s):
2.1 Water chemistry

3. Test method
The sample(s) were tested in accordance with:

3.1 Refer to Table 1.

4. Sample and condition/…

Results in this report only relate to the item(s) tested and to conditions which prevailed upon sample reception. The test results and the statement of compliance with the specification in this report relate only to the test sample as analysed and not to the sample from which the test sample was drawn. This report may not be reproduced, except in full, without the written approval of the Laboratory Technical Manager. Case ref: 21/04/1451

4. Sample and condition :

4.1 Date of sampling: 2021/04/11
4.2 Date sample submitted: 2021/04/12
4.3 Temp. upon sample reception: 11.2℃
4.4 Sample defects noted: None

5. Sub contractor:

5.1 None

6. Results:

Table 1:
Refer to 2.1

Determinand	Test Method Reference	Unit	1-21/1451	2-21/1451
			Malatjie	Makhabeni
Physical and aggregate properties				
pH @ 25℃	CH-METH-001	pH units	7.1	7.2
Conductivity @25℃	CH-METH-002	mS/m	128.6	129.2
*Total dissolved solids (calculated)	CH-METH-038	mg/l	836	840
Alkalinity				
*Bicarbonate alkalinity as $CaCO_3$	CH-METH-054	mg/l	422.0	466.7
*Carbonate alkalinity as $CaCO_3$		mg/l	0.0	0.0
Hardness:				
*Total hardness as $CaCO_3$	CH-METH-039	mg/l	579.63	478.72
*Ca hardness as $CaCO_3$		mg/l	154.05	141.83
*Mg hardness as $CaCO_3$		mg/l	425.58	336.90
Metals				
Arsenic as As	CH-METH-020	mg/l	<0.03	<0.03
Boron as B	CH-METH-020	mg/l	0.02	0.05
Calcium as Ca	CH-METH-020	mg/l	61.62	56.73
Cadmium as Cd	CH-METH-020	mg/l	<0.01	<0.01
Copper as Cu	CH-METH-020	mg/l	<0.01	0.02
Iron as Fe	CH-METH-020	mg/l	<0.01	0.01
Magnesium as Mg	CH-METH-020	mg/l	103.80	82.17
Manganese as Mn	CH-METH-020	mg/l	<0.01	0.01
Potassium as K	CH-METH-020	mg/l	14.72	8.93
Sodium as Na	CH-METH-020	mg/l	54.60	75.18
Zinc as Zn	CH-METH-020	mg/l	0.01	0.16
Inorganic non-metallic constituents				
Chloride as Cl	CH-METH-050	mg/l	133.4	85.2
Fluoride as F	CH-METH-013	mg/l	0.26	0.35
Nitrogen				
*Ammonium as NH_4-N	CH-METH-031	mg/l	<0.20	<0.20
Nitrate as NO_3-N	CH-METH-050	mg/l	17.71	15.04
Phosphorus				
Ortophosphate as PO_4-P	CH-METH-032	mg/l	<0.05	<0.05
`Sulphur				
Sulphate as SO_4	CH-METH-050	mg/l	37.36	33.90

Key/…

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Key:
* - Not a SANAS accredited method

Disclaimer: Comments and interpretations expressed herein are not within the scope of SANAS accreditation.

7. Comments:
7.1 None

8. Interpretations:
8.1 None

Digitally signed by Milan Andrin
Date: 2021.04.15 14:13:29 +02'00'

(Technical Signatory)

(END OF REPORT)

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