

CERTIFICATE OF ANALYSES

Report Nr.: WT000860.DOC

Pathcare Laboratories

Date received: 21-01-2019
Time received: 12:30

Sampled by client

Water Analyses Report

Irrigation evaluation

Origin	Lab. Nr.	pH @ 25°C	EC @ 25°C mS/m	Na mg/l	K mg/l	Ca mg/l	Mg mg/l	Fe mg/l	Cl mg/l	CO ₃ ²⁻ mg/l	HCO ₃ ⁻ mg/l	SO ₄ mg/l	B mg/l	Mn mg/l	Date Sampled	*OP (kPa)	*Adj. SAR	*Langelier index	*Class
728167743	860	6.7	21	15.0	1.7	5.1	4.1	0.73	30.3		15.0	12	0.17	<0.03	16/01/2019	7.6	0.6	-2.6	C1-S1
728167744	861	6.5	21	15.6	1.9	5.5	4.4	0.86	32.1		15.0	12	0.16	0.04	16/01/2019	7.7	0.6	-2.7	C1-S1
728167745	862	6.4	21	15.4	1.8	5.2	4.3	0.96	30.6		13.0	12	0.15	0.04	16/01/2019	7.6	0.6	-2.9	C1-S1
728167746	863	6.2	21	15.2	1.7	5.2	4.3	0.75	31.4		13.0	12	0.15	<0.03	16/01/2019	7.6	0.6	-3.1	C1-S1
728167747	864	6.1	21	16.6	2.0	5.6	4.6	1.03	33.9		13.0	12	0.17	0.11	16/01/2019	7.6	0.6	-3.2	C1-S1
728167748	865	6.1	22	17.1	2.0	5.8	4.7	0.98	34.6		14.0	12	0.41	0.09	16/01/2019	7.7	0.7	-3.1	C1-S1
728167749	866	6.7	21	18.0	2.0	5.5	4.6	1.05	35.6		18.0	12	0.25	0.20	16/01/2019	7.6	0.8	-2.4	C1-S1
728167750	867	6.9	21	16.5	1.9	5.6	4.5	0.81	33.5		16.0	12	0.23	<0.03	16/01/2019	7.6	0.7	-2.3	C1-S1
Norm		≥5.5-≤9.0	≤270	≤70.0				≤1.50	≤100.0		≤150.0		≤1.00	≤0.10				≥-0.5-≤0.5	

Origin	Lab. Nr.	Temperature at reception (°C)	Date Analysed
728167743	860	19.0	22/01/2019
728167744	861	18.0	22/01/2019
728167745	862	18.2	22/01/2019
728167746	863	18.4	22/01/2019
728167747	864	18.0	22/01/2019
728167748	865	17.6	22/01/2019
728167749	866	17.7	22/01/2019
728167750	867	18.6	22/01/2019
Norm			

* = Not SANAS Accredited

GAMTOOS IRRIGATION BOARD
728167743- DUPLEX
728167744- K. KANAAL
728167745- PATENSIE
728167746- D. KANAAL
728167747- KOK SE PLAAS
728167748- B. KANAAL
728167749- KOUGADAM
728167750- LYN 106

See [analyses interpretation](#) for assistance with interpreting the report and relevance of each analyses.

The classification of the water has the following meaning:

C1: Low salinity water - Can be used for irrigation on most soils.

S1: Low sodium water - Can be used for irrigation on almost all soils with little danger.

A positive value for the Langelier index indicate a tendency for calcium carbonate to precipitate, whereas a negative value indicate that the water will dissolve calcium carbonate. The latter water is regarded as aggressive and corrosive. If there is a tendency for calcium to precipitate it will result in a higher SAR value than the value shown in the table above and the sodium hazard with use of this water will therefore be greater.

Statement: The reported results may be applied only to samples received. Any recommendations included with this report are based on the assumption that the samples were representative of the source from which they were taken.

Notes:

To ensure sample integrity, samples are stored only for seven days after release of the report. Thereafter it is disposed of and a fresh sample will be required if additional analyses are requested.

Results marked with "**Not SANAS Accredited**" in this report are not included in the SANAS Schedule of Accreditation for this laboratory. These results relate to the items tested.

This test report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.

Refer to [website](#) for uncertainty of measurement and referenced methods.

Sample condition: Samples received in good condition.



Sandisiwe Mbula
Technical Signatory(Water chemistry)

28-01-2019
Date reported

—————END OF REPORT—————