

CERTIFICATE OF ANALYSES

Report Nr.: WT016176.DOC

Pathcare Laboratories

Date received: 25-07-2018
Time received: 10:58

Sampled by A.Murray

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
728163450	16176	7.3	27	27.3	3.7	7.6	6.3	2.52	62.0		49.0	8	<0.08	0.20	23/07/2018	9.8	1.3	-1.3	C2-S1
728163451	16177	7.4	28	28.7	3.6	8.2	6.7	1.22	67.0		53.0	9	<0.08	0.10	23/07/2018	10.2	1.4	-1.1	C2-S1
728163452	16178	7.5	27	28.6	3.6	7.9	6.8	1.62	62.0		50.0	9	<0.08	0.09	23/07/2018	9.9	1.3	-1.1	C2-S1
728163453	16179	7.3	28	29.2	3.7	8.3	7.0	1.54	62.0		52.0	9	<0.08	0.08	23/07/2018	10.1	1.4	-1.3	C2-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
728163450	16176	9.5	26/07/2018
728163451	16177	9.1	26/07/2018
728163452	16178	9.2	26/07/2018
728163453	16179	9.6	26/07/2018
Norm			

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Gamtoos Irrigation Board

728163450- KOUGADAM
728163451- B KANAAL
728163452- KOK SE PLAAS
728163453- D KANAAL

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

The classification of the water has the following meaning:

C2: Medium salinity water - Can be used for irrigation if a moderate amount of leaching is allowed.

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.

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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)

31-07-2018
Date reported

—————**END OF REPORT**—————