

CERTIFICATE OF ANALYSIS

Client : Groenland Water Users Association
Address : Posbus 323 Viljoenshoop Road
Phone : 0725577308
Contact : Timothy Jack
Email : timothy@groenlandwater.co.za

Report No : WT2026-00996
Samples : 10
Department : Water

Order No/Ref : N/A
Delivery Date : 11/02/2026

Lab number:	WT26-01985					
Sampling Date:	11/02/2026					
Sampling Time:						
Sampling temperature upon receipt (°C):	24.3					
Sampling ID:	Eikenhof Dam					
Physical & Aesthetic Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Electrical Conductivity (Titrand) at 25°C	3777	mS/m	5.6	5.85	Not Applicable	NA
pH (Titrand Method) at 25°C	3777	pH Units	5.4	0.16	≥6.5 to ≤8.4	Does not comply
Alkalinity as CaCO ₃ (Titrand)	3777	mg/L	3.4		Not Applicable	NA
Langelier Index *	Calc		-5.6		≥-0.5 to ≤0.5	Undersaturated
Saturation pH (pHs) *	Calc	pH Units	11.0		Not Applicable	NA
Sodium Adsorption Ratio (SAR) *	Calc		1.1		Not Applicable	NA
Macro Chemical Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Chloride as Cl *	999	mg/L	13.1		Not Applicable	NA
Sodium (Na) Dissolved	3132	mg/L	6.2	2.18	≤70	Complies
Calcium (Ca) Dissolved	3132	mg/L	1.1	2.17	Not Applicable	NA
Magnesium (Mg) Dissolved	3132	mg/L	0.85	2.07	Not Applicable	NA
Potassium (K) Dissolved	3132	mg/L	<1.0	4.41	Not Applicable	NA
Sulphur (S) Dissolved	3132	mg/L	0.57	4.28	Not Applicable	NA
Sulphate (SO ₄) *	Calc	mg/L	1.7	12.82	Not Applicable	NA
Micro Chemical Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Boron (B) Total	3132	mg/L	<0.10	3.06	<0.50	Complies
Iron (Fe) Dissolved	3132	mg/L	0.21	4.34	<5 Not toxic to root uptake	Complies
Iron (Fe) Total	3132	mg/L	0.20	4.34	>0.2 Increased risk of drip system clogging	Complies
Manganese (Mn) Total	3132	mg/L	<0.05	2.77	≤0.10	Complies
Manganese (Mn) Dissolved	3132	mg/L	<0.05	2.77	≤0.10	Complies

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General Chemistry	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
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Dissolved Oxygen as O2 *	*	mg/L	8.6		Not Applicable	NA
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Microbiology Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
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E coli (Membrane Filtration)	6386	cfu/100mL	10	14.99	Not Applicable	NA
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