16 Van der Berg Crescent
Strand, 7140
Tel : 021 853 1490
VAT No : 4200161414
www.bemlab.co.za

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Testing Laboratory
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CERTIFICATE OF ANALYSIS

Client	: Groenland Water Users Association	Report No	: WT2026-05553	Order No/Ref	: N/A
Address	: Posbus 323 Viljoenshoop Road	Samples	: 10	Delivery Date	: 21/09/2026
Phone	: 0725577308	Department	: Water		
Contact	: Timothy Jack				
Email	: timothy@groenlandwater.co.za				

Lab number:	WT26-11493
Sampling Date:	21/09/2026
Sampling Time:	10:00
Sampling temperature upon receipt (°C):	18.3
Sampling ID:	Eikenhof Dam

Physical & Aesthetic Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Electrical Conductivity (Titrando) at 25°C	3777	mS/m	6.1	5.85	Not Applicable	NA
pH (Titrando Method) at 25°C	3777	pH Units	5.1	0.16	≥6.5 to ≤8.4	Does not comply
Alkalinity as CaCO3 (Titrando)	3777	mg/L	3.5		Not Applicable	NA
Langelier Index *	Calc		-5.8		≥-0.5 to ≤0.5	Undersaturated
Saturation pH (pHs) *	Calc	pH Units	10.9		Not Applicable	NA
Sodium Adsorption Ratio (SAR) *	Calc		1.0		Not Applicable	NA

Macro Chemical Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Chloride as Cl *	999	mg/L	11.8		Not Applicable	NA
Sodium (Na) Dissolved	3132	mg/L	5.9	2.18	≤70	Complies
Calcium (Ca) Dissolved	3132	mg/L	1.2	2.17	Not Applicable	NA
Magnesium (Mg) Dissolved	3132	mg/L	0.92	2.07	Not Applicable	NA
Potassium (K) Dissolved	3132	mg/L	<1.0	4.41	Not Applicable	NA
Sulphur (S) Dissolved	3132	mg/L	0.61	4.28	Not Applicable	NA
Sulphate (SO4) *	Calc	mg/L	1.8	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	0.42	4.34	<5 Not toxic to root uptake	Complies
Iron (Fe) Total	3132	mg/L	0.48	4.34	>0.2 Increased risk of drip system clogging	Does not comply
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
Dissolved Oxygen as O2 *	*	mg/L	8.9		Not Applicable	NA
Microbiology Determinands	**Method ID**	**Unit**	**Results**	**UoM %**	**Basic Irrigation Limits**	**Compliance Statement**
E coli (Membrane Filtration)	6386	cfu/100mL	5	14.99	Not Applicable	NA