

CERTIFICATE OF ANALYSIS

Client : Groenland Water Users Association

Report No : WT2025-04925

Order No/Ref : N/A

Address : Posbus 323 Viljoenshoop Road GRABOUW

Samples : 7

Delivery Date : 12/09/2025

Phone : 0725577308

Department : Water

Contact : Timothy Jack

Email : timothy@groenlandwater.co.za

Lab number:	WT25-10287					
Sampling Date:	12/09/2025					
Sampling Time:	10:00					
Sampling temperature upon receipt (°C):	16.0					
Sampling ID:	Eikenhof Inloop					
Physical & Aesthetic Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Electrical Conductivity (Titrande) at 25°C	3777	mS/m	7.5	5.85	Not Applicable	NA
pH (Titrande Method) at 25°C	3777	pH Units	5.1	0.16	≥6.5 to ≤8.4	Does not comply
Alkalinity as CaCO ₃ (Titrande)	3777	mg/L	2.8		Not Applicable	NA
Langelier Index *	Calc		-6.1		≥-0.5 to ≤0.5	Undersaturated
Saturation pH (pHs) *	Calc	pH Units	11.2		Not Applicable	NA
Sodium Adsorption Ratio (SAR) *	Calc		1.5		Not Applicable	NA
Macro Chemical Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Chloride as Cl *	999	mg/L	17.8		Not Applicable	NA
Sodium (Na) Dissolved	3132	mg/L	8.8	2.18	≤70	Complies
Calcium (Ca) Dissolved	3132	mg/L	0.71	2.17	Not Applicable	NA
Magnesium (Mg) Dissolved	3132	mg/L	1.1	2.07	Not Applicable	NA
Potassium (K) Dissolved	3132	mg/L	<1.0	4.41	Not Applicable	NA
Sulphur (S) Dissolved	3132	mg/L	0.82	4.28	Not Applicable	NA
Sulphate (SO ₄) *	Calc	mg/L	2.4	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	0.26	4.34	<5 Not toxic to root uptake	Complies
Iron (Fe) Total	3132	mg/L	0.40	4.34	>0.2 Increased risk of drip system clogging	Does not comply
Manganese (Mn) Dissolved	3132	mg/L	<0.05	2.77	≤0.10	Complies
Manganese (Mn) Total	3132	mg/L	<0.05	2.77	≤0.10	Complies

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Phone : 0725577308 Department : Water

Contact : Timothy Jack

Email : timothy@groenlandwater.co.za

Lab number:	WT25-10290					
Sampling Date:	12/09/2025					
Sampling Time:	10:00					
Sampling temperature upon receipt (°C):	17.5					
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	4.8	0.16	≥6.5 to ≤8.4	Does not comply
Alkalinity as CaCO ₃ (Titrand)	3777	mg/L	2.2		Not Applicable	NA
Langelier Index *	Calc		-6.7		≥-0.5 to ≤0.5	Undersaturated
Saturation pH (pHs) *	Calc	pH Units	11.5		Not Applicable	NA
Sodium Adsorption Ratio (SAR) *	Calc		1.2		Not Applicable	NA
Macro Chemical Determinands	Method ID	Unit	Results	UoM %	Basic Irrigation Limits	Compliance Statement
Chloride as Cl *	999	mg/L	11.4		Not Applicable	NA
Sodium (Na) Dissolved	3132	mg/L	5.9	2.18	≤70	Complies
Calcium (Ca) Dissolved	3132	mg/L	0.52	2.17	Not Applicable	NA
Magnesium (Mg) Dissolved	3132	mg/L	0.75	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	0.31	4.34	<5 Not toxic to root uptake	Complies
Iron (Fe) Total	3132	mg/L	0.38	4.34	>0.2 Increased risk of drip system clogging	Does not comply
Manganese (Mn) Dissolved	3132	mg/L	<0.05	2.77	≤0.10	Complies
Manganese (Mn) Total	3132	mg/L	<0.05	2.77	≤0.10	Complies

