

Dairy Farm 1600 cattle Monterey Farm

TOSCALAB (Pty) Ltd.

CIVIL ENGINEERING MATERIALS LABORATORY
Reg. No. 2014/263602/07

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ISO/IEC 17025 ACCREDITED



T 0481

CLIENT : Kwikelc
48 King Edward Road
INV0001126
QUO0001255
DATE REPORTED: 17.02.2022
SAMPLE NO: WL4968 and WL4969
ATT : Michael

PROJECT: Water
JOB CARD : TET1037
DATE TESTED : 15.02.2022
DATE COMPLETED: 17.02.2022
SAMPLE ID: Water
SAMPLED BY: Client
SAMPLING PROCEDURE: N/A

LABORATORY ANALYTICAL REPORT

Parameter	Units	Method Reference / Method No	Measurement Uncertainty	Limits SANS 241:2015	SANS 241 RISK CLASS	Results - WL4968	Results - WL4969
Electrical Conductivity	mS/m	SANS 7888	0.02	≤ 170	Aesthetic	-	-
pH @ 25 °C	pH units	SANS 10523	0.25	≥ 5 and ≤ 9.7	Operational	-	-
Langelier saturation index	pH units	Calc.	-	n/a	n/a	-	-
Turbidity	NTU	Hach 8195	0.22	Operational ≤ 1 Aesthetic ≤ 5		-	-
Colour	Pt-Co Units	Hach 8025	-	< 15	Aesthetic	-	-
Sodium	mg/l Na	SANS 11885	-	≤ 200	Aesthetic	-	-
Calcium	mg/l Ca	SANS 11885	-	n/a	n/a	-	-
Magnesium	mg/l Mg	SANS 11885	-	n/a	n/a	-	-
Potassium	mg/l K	SANS 11885	-	n/a	n/a	-	-
Iron	mg/l Fe	SANS 11885	-	≤ 2	Chronic Health	-	-
Manganese	mg/l Mn	SANS 11885	-	Chronic Health ≤ 0.4 Aesthetic ≤ 0.1		-	-
Total Alkalinity	mg/l CaCO ₃	APHA 2023	1.05	n/a	n/a	-	-
Chloride	mg/l Cl	SANS 9297	12.98	≤ 300	Aesthetic	-	-
Ammonia	mg/l N	Hach 10031	0.01	≤ 1.5	Aesthetic	-	-
Nitrate	mg/l N	Hach 10206	0.06	≤ 11	Acute Health	-	-
Nitrite	mg/l N	Hach 10019	-	≤ 0.9	Acute Health	-	-
Nitrate/Nitrite	Ratio	Calc.	-	≤ 1.0	Acute Health	-	-
Fluoride	mg/l F	Hach 10225	0.01	≤ 1.5	Chronic Health	-	-
Sulphate	mg/l SO ₄ ²⁻	Hach 8051	0.21	Acute Health ≤ 500 Aesthetic ≤ 250		-	-
Total Dissolved Solids	mg/l TDS	SANS 5213	7.09	≤ 1200	Aesthetic	-	-
Dissolved Boron	mg/l B	SANS 11885	-	≤ 2.4	Chronic Health	-	-
Copper	mg/l Cu	SANS 11885	-	≤ 2	Chronic Health	-	-
Zinc	mg/l Zn	SANS 11885	-	≤ 5	Aesthetic	-	-
E. coli	count/100ml	Petrifilm CC	-	0	Acute Health	201	86
Total Coliforms	count/100ml	Petrifilm CC	-	≤ 10	Operational	>2420	1120
Total Bacteria Count	count/ml	Petrifilm AC	-	1000	Operational	179	201
Total Hardness	mg/l as CaCO ₃	Calc	-	n/a	Operational	-	-

The above test results are pertinent only to the samples as per conditions received and tested at the laboratory. This report shall not be reproduced, except in full, without the prior consent of Tosca Lab (Pty) Ltd. (s) = Subcontracted test.

- The highlighted result is an interpretation of the direct comparison between the quoted specification and the single test sample result obtained.
- The results met/not met is based on an approximate of 95% level of confidence with reference to ISO/IEC 98-4

Name: Baxolise Ntshheiyi
Position: Senior Laboratory Analyst

Dagmar - 3" Ring Fitted
see diagram I sent you