

Certificate Of Analysis

Company: Charlie Myburgh
Address: 8 Willow Road
Stikland

Service Request Number: PW-2022-35782
Date of Certificate: 04-October-2022
Date Completed: 29-September-2022

Date of Sampling: 23-September-2022
Date of Reveal at Lab: 23-September-2022

Contact: Charlie Myburgh

Sample Identification		Drinking Water Sample			
Sample Number:	PW-22-119885	Sample Condition:	Room Temperature	Remark:	
Microbiological Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
E. coli (MF)	M10	cfu's/100mL	0	Not Detected	2022-09-23
Faecal Coliforms	M19	cfu's/100mL	0	Not Detected	2022-09-23
Heterotrophic Plate Count	M11	cfu's/1mL	<1 000	1	2022-09-23
Total Coliforms	M10	cfu's/100mL	<10	Not Detected	2022-09-23
Physical / Aesthetic Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Alkalinity - Total as CaCO ₃	M7	mg/L		<10.0	2022-09-26
Colour (True)	M14	Pt-Co-true	<15	<10.0	2022-09-26
Electrical Conductivity @ 25°C	M4	mS/m	<170	3.49	2022-09-26
pH @ 25°C	M6	pH units	5 - 9.7	5.57	2022-09-26
Total Dissolved Solids*	Calc	mg/L	<1 200	23	2022-09-26
Turbidity	M12	NTU	<5	<0.30	2022-09-26
Chemistry (Macro) Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Ammonium (NH ₄ -N)	M44	mg/L	<1.5	<0.10	2022-09-27
Calcium as Ca	M18	mg/L		3.41	2022-09-27
Chloride as Cl-	M44	mg/L	<300	7.44	2022-09-27
Fluoride as F-	M44	mg/L	<1.5	0.20	2022-09-27
Magnesium as Mg	M18	mg/L		<2.00	2022-09-27
Nitrate as Nitrogen	M44	mg/L	<11	0.10	2022-09-27
Potassium as K	M18	mg/L		<2.00	2022-09-27
Sodium as Na	M18	mg/L	<200	5.72	2022-09-27
Sulphate as SO ₄ ²⁻	M44	mg/L	<250	<0.60	2022-09-27
Zinc as Zn	M16	mg/L	<5	<0.05	2022-09-26
Chemistry (Micro) Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Copper as Cu	M16	µg/L	<2 000	<20.0	2022-09-26
Iron as Fe	M16	µg/L	<300	<20.0	2022-09-26
Iron as Fe (Total)*	M16	µg/L		20.5	2022-09-28

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Chemistry (Micro) Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Manganese as Mn	M16	µg/L	<100	<10.0	2022-09-26
Manganese as Mn (Total)*	M16	µg/L		<20.0	2022-09-28
Organic Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Total Organic Carbon	M20	mg/L	<10	<0.50	2022-09-26
Indexes / Calculations	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Langelier Saturation Index*	Calc			-4.44	2022-09-27

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1. Sampling is outside the laboratory's scope of accreditation. Where applicable, free and total chlorine results are supplied by the sampling officer.
2. This report shall not be reproduced except in full, without written approval from the laboratory.
3. Uncertainties of Measurement, Limits of Detection, and Method Descriptions will be provided upon request.
4. The organization reports results at the 95% confidence interval with a coverage factor $k = 2$. The overlying acceptance criteria for method expanded uncertainty is $< 5\%$. Decision Rule - Results reflecting on the Certificate of Analysis are actual results as obtained at the time of testing, and do not include any uncertainty considerations. The Laboratory does not issue any statement of conformity, unless by prior arrangement.
5. Certificates of Analyses will be reported electronically in a protected format. The laboratory will not be responsible for any unauthorised changes made to results once reported.
6. Parameters indicated by an * are not SANAS accredited and are not included in the SANAS Schedule of Accreditation for this laboratory.
7. Parameters indicated by ** are subcontracted and are not included in the SANAS Schedule of Accreditation for this laboratory.
8. The following has reference:
 - Unless otherwise stated, ICP, HPLC, GC, GC-MS and LC-MS samples have been filtered using a $0.45\mu\text{m}$ filter prior to analysis.
9. In the absence of client specified limits, the limits reflected are based on SANS 241-2015 or General Effluent Standards, as applicable.
10. The quality and integrity of samples submitted has a direct correlation to the results reported. As such, results reflected on this report relate only to the samples as received.
11. Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.



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