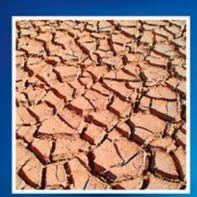
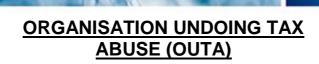




LEADERS IN ENVIRONMENTAL MONITORING







BATCH 59234

MOGALE CITY

WATER QUALITY REPORT





10TH FLOOR O'KEEFFE AND SWARTZ BUILDING 318 OAK AVENUE

ATTENTION: ORGANISATION UNDOING TAX ABUSE

16 NOVEMBER 2018

WATER QUALITY EVALUATION (TEST REPORT 59234)

A water sample was submitted to Aquatico Laboratories on **30 October 2018** for testing the quality for intended use as domestic water. The water quality test results are displayed on the attached Test Report. Water quality is compared to the SANS 241-1:2015 Drinking Water Standard (SABS, 2015).

Table 1. Sampling Register

SAMPLING REGISTER : MONTHLY										
PROJECT NAME:		Organisation undoing Tax Abuse								
MONTH:		October 2018								
SAMPLER NAME:		Thabiso Phalane								
Organisation undoing Tax Abuse										
Locality	Coordinates		Sample Time	Status	Remarks					
	Latitude	Longitude	Sample Time	Status	Nemarks					
					1					
Drinking water tap										
OUTA Mogale City	S26.10535	E27.77189	2018-10-30 12:04	Yes	CLEAR					



Figure 1: Photographic monitoring catalogue of the water sample taken in Mogale City.









leaders in enuironmental monitoring

postal: P.O. Box 905008, Garsfontein, 0042

office: 012 450 3800 • fax: 012 450 3851

web: www.aquatico.co.za

address: 89 Regency drive, R21 Corporate Park, Centurion

WATER QUALITY RESULTS

Table 2. Water quality results for Mogale City.

DATA TABLE								
CLIENT NAME	Organisation Undoing Tax Abuse		DATE COMPILED	2018-11-16				
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)		COMPILED BY	lan Belford				
				*Value exceeds the assessment set				
VARIABLE	UNITS	ASSESSMENT SET	SAMPLE NAME : Mogale City Potable Water	POSSIBLE HEALTH EFFECTS				
pH @ 25°C	рН	Range 5.0 - 9.7	8.31	No health effects				
Electrical conductivity (EC) @ 25°C	mS/m	170	20.6	No effects				
Total Dissolved solids @ 180°C	mg/l	1200	126					
Chloride (CI)	mg/l	300	10.4	No health effects				
Sulphate (SO ₄)	mg/l	500	14.7	No effects				
Nitrate (NO ₃) as N	mg/l	11	<0.459					
Nitrite (NO ₂) as N	mg/l	0.9	0.017					
Ammonium (NH₄) as N	mg/l	1.5	0.324					
Ammonia (NH ₃) as N	mg/l	-	0.025					
Fluoride (F)	mg/l	1.5	<0.466					
Acid Soluble Sodium (Na)	mg/l	-	8.17	Negligible effects				
Acid Soluble Aluminium (AI)	mg/l	0.3	<0.005					
Acid Soluble Iron (Fe)	mg/l	0.3	<0.009					
Acid Soluble Manganese (Mn)	mg/l	0.1	<0.001					
Acid Soluble Chromium (Cr)	mg/l	0.05	<0.007					
Acid Soluble Copper (Cu)	mg/l	2	0.011	No health effects				
Acid Soluble Nickel (Ni)	mg/l	0.07	<0.005					
Acid Soluble Zinc (Zn)	mg/l	5	<0.005					
Acid Soluble Cadmium (Cd)	mg/l	0.003	<0.005					
E.coli	CFU/100 ml	0	0					
Total coliform	CFU/100 ml	10	0					
TotalViableCount	CFU/ml	1000	0					
Turbidity	NTU	1	0.286	Slight risk of potential health effects				
Free chlorine (Cl ₂)	mg/l	5	<0.1					
Total organic carbon (TOC)	mg/l	10	4.79					
Temperature	°C	-	21.2					
Total oxidised nitrogen	mg/l	-	0.31					
Monochloramine	mg/l	3	2.24					

The water quality of the sample called '**Mogale City Potable Water**' can be described as neutral (pH 6.0 - 8.5), non-saline (TDS < 450 mg/l) and moderately soft (total hardness 50 - 100 CaCO₃) with no *E.coli* and no total coliforms detected.

Compliance with the 'SANS 241-1:2015 Drinking Water Standard (SABS, 2015)' guidelines is as follows:

Chronic health Risk: All compliant
Acute health Risk: All compliant
Operational (non-health): All compliant
Aesthetic (non-health): All compliant

In terms of the classification system of the 'Quality of Domestic water supplies' (WRC,1998) the quality is classified as follows:

Drinking: Class 1 - Good
Bathing: Class 0 - Ideal
Washing: Class 0 - Ideal
Food Preparation: Class 1 - Good
Aesthetic: Class 1 - Good

Based on the assessment of variables analysed in comparison to 'SANS 241-1:2015 Drinking Water Standard (SABS, 2015)' and 'Quality of Domestic water supplies' (WRC, 1998), the tested water sample is Fit for use as potable water and domestic use.

Treatment for intended use: none-required

Variables requiring treatment: None







Test Report Page 1 of 1

Client: Organisation Undoing Tax Abuse

Address: 10th Floor, Okeeffe and Swartz Building, 318 Oak Avenue, Ferndale, Randburg

Report no: 59234

Project: OUTA

Date of certificate: 06 November 2018

Date accepted: 30 October 2018 **Date completed:** 06 November 2018

Revision: 0

Lab no:							
Da	30-Oct-2018						
Sample type:							
Loc	Mogale City Potable Water						
	Analyses	Unit	Method				
	pH @ 25°C	pH	ALM 20	8.31			
	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	20.6			
	Total Dissolved solids @ 180°C	mg/l	ALM 24	126			
Α	Chloride (CI)	mg/l	ALM 02	10.4			
Α	Sulphate (SO ₄)	mg/l	ALM 03	14.7			
Α	Nitrate (NO₃) as N	mg/l	ALM 06	0.296			
Α	Nitrite (NO ₂) as N	mg/l	ALM 07	0.017			
Α	Ammonium (NH ₄) as N	mg/l	ALM 05	0.324			
N	Ammonia (NH₃) as N	mg/l	ALM 26	0.025			
Α	Fluoride (F)	mg/l	ALM 08	<0.263			
Α	Acid Soluble Sodium (Na)	mg/l	ALM 30	8.17			
Α	Acid Soluble Aluminium (AI)	mg/l	ALM 31	<0.002			
Α	Acid Soluble Iron (Fe)	mg/l	ALM 31	<0.004			
Α	Acid Soluble Manganese (Mn)	mg/l	ALM 31	<0.001			
Α	Acid Soluble Chromium (Cr)	mg/l	ALM 31	<0.003			
Α	Acid Soluble Copper (Cu)	mg/l	ALM 31	0.011			
Α	Acid Soluble Nickel (Ni)	mg/l	ALM 31	<0.002			
Α	Acid Soluble Zinc (Zn)	mg/l	ALM 31	<0.002			
Α	Acid Soluble Cadmium (Cd)	mg/l	ALM 31	<0.002			
Α	E.coli	CFU/100ml	ALM 40	<1			
Α	Total coliform	CFU/100ml	ALM 40	<1			
Α	TotalViableCount	CFU/ml	ALM 43	<1			
Α	Turbidity	NTU	ALM 21	0.286			
N	Free chlorine (Cl ₂)	mg/l	ALM 23	0.1			
Α	Total organic carbon (TOC)	mg/l	ALM 63	4.79			
N	Temperature	°C	ALM 20	21.2			
N	Total oxidised nitrogen	mg/l	ALM 26	0.31			
N	Monochloramine	mg/l	ALM 67	2.24			

A = Accredited N = Non accredited O = Outsourced S = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report; The results relates only to the test item tested.

Results reported against the limit of detection.

Results marked 'Not SANAS Accredited' in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation.