



LEADERS IN ENVIRONMENTAL MONITORING



**ORGANISATION UNDOING TAX  
ABUSE (OUTA)**

**BATCH 59232**

**PRETORIA CBD**

**WATER QUALITY REPORT**

**16 November 2018**

**Compiled by Aquatico Scientific**

10TH FLOOR  
 OKEEFFE AND SWARTZ BUILDING  
 318 OAK AVENUE

ATTENTION: ORGANISATION UNDOING TAX ABUSE

16 NOVEMBER 2018

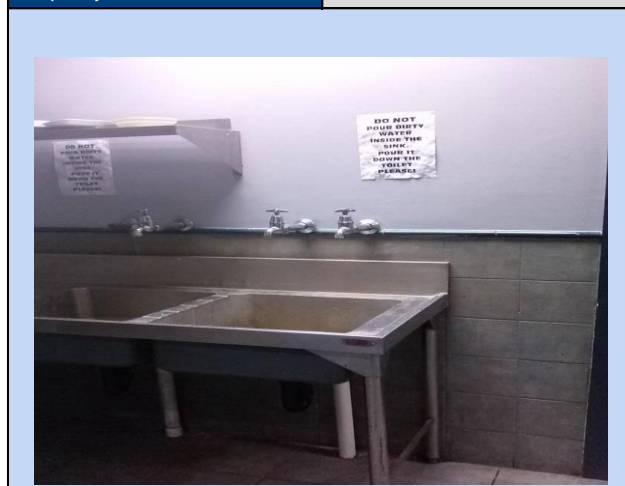
**CONCISE WATER QUALITY EVALUATION**  
**(TEST REPORT 59232)**

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			
Potable Water					
Pretoria CBD	-	-	2018-10-30 14:36	Yes	CLEAR

Locality	OUTA Pretoria CBD
Locality Coordinates	
Sample Date	2018-10-30 14:36
Sample By	Thabiso Phalane



**Figure 1: Photographic monitoring catalogue of the water sample taken in Pretoria CBD.**

## WATER QUALITY RESULTS

**Table 2. Water quality results for Pretoria CBD.**

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	Ian Belford	
*Value exceeds the assessment set				
VARIABLE	UNITS	ASSESSMENT SET	SAMPLE NAME : Pretoria CBD Potable Water	POSSIBLE HEALTH EFFECTS
pH @ 25°C	pH	Range 5.0 - 9.7	8.27	No health effects
Electrical conductivity (EC) @ 25°C	mS/m	170	44.1	No effects
Total Dissolved solids @ 180°C	mg/l	1200	292	
Chloride (Cl)	mg/l	300	13.6	No health effects
Sulphate (SO <sub>4</sub> )	mg/l	500	14.2	No effects
Nitrate (NO <sub>3</sub> ) as N	mg/l	11	4.72	Negligible effects
Nitrite (NO <sub>2</sub> ) as N	mg/l	0.9	<0.017	
Ammonium (NH <sub>4</sub> ) as N	mg/l	1.5	0.039	
Ammonia (NH <sub>3</sub> ) as N	mg/l	-	<0.015	
Fluoride (F)	mg/l	1.5	<0.466	
Acid Soluble Sodium (Na)	mg/l	-	8.46	Negligible effects
Acid Soluble Aluminium (Al)	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	<0.005	
Acid Soluble Nickel (Ni)	mg/l	0.07	<0.005	
Acid Soluble Zinc (Zn)	mg/l	5	0.040	No effects
Acid Soluble Cadmium (Cd)	mg/l	0.003	<0.005	
E.coli	CFU/100ml	0	0	
Total coliform	CFU/100ml	10	0	
TotalViableCount	CFU/ml	1000	0	
Turbidity	NTU	1	0.212	Slight risk of potential health effects
Free chlorine (Cl <sub>2</sub> )	mg/l	5	<0.1	
Total organic carbon (TOC)	mg/l	10	2.11	
Temperature	°C	-	21.1	
Total oxidised nitrogen	mg/l	-	4.73	
Monochloramine	mg/l	3	0.12	

The water quality of the sample called '**Pretoria CBD Potable Water**' can be described as neutral (pH 6.0 - 8.5), non-saline (TDS < 450 mg/l) and hard (total hardness 200 - 300 CaCO<sub>3</sub>) 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**

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**Client:** Organisation Undoing Tax Abuse  
**Address:** 10th Floor, Okeeffe and Swartz Building, 318 Oak Avenue, Ferndale, Randburg  
**Report no:** 59232  
**Project:** OUTA

**Date of certificate:** 06 November 2018  
**Date accepted:** 30 October 2018  
**Date completed:** 06 November 2018  
**Revision:** 0

<b>Lab no:</b>	65958		
<b>Date sampled:</b>	30-Oct-2018		
<b>Sample type:</b>	Water		
<b>Locality description:</b>	Pretoria CBD Potable Water		
	<b>Analyses</b>	<b>Unit</b>	<b>Method</b>
A	pH @ 25°C	pH	ALM 20 8.27
A	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20 44.1
A	Total Dissolved solids @ 180°C	mg/l	ALM 24 292
A	Chloride (Cl)	mg/l	ALM 02 13.6
A	Sulphate (SO <sub>4</sub> )	mg/l	ALM 03 14.2
A	Nitrate (NO <sub>3</sub> ) as N	mg/l	ALM 06 4.72
A	Nitrite (NO <sub>2</sub> ) as N	mg/l	ALM 07 0.008
A	Ammonium (NH <sub>4</sub> ) as N	mg/l	ALM 05 0.039
N	Ammonia (NH <sub>3</sub> ) as N	mg/l	ALM 26 <0.005
A	Fluoride (F)	mg/l	ALM 08 <0.263
A	Acid Soluble Sodium (Na)	mg/l	ALM 30 8.46
A	Acid Soluble Aluminium (Al)	mg/l	ALM 31 <0.002
A	Acid Soluble Iron (Fe)	mg/l	ALM 31 <0.004
A	Acid Soluble Manganese (Mn)	mg/l	ALM 31 <0.001
A	Acid Soluble Chromium (Cr)	mg/l	ALM 31 <0.003
A	Acid Soluble Copper (Cu)	mg/l	ALM 31 0.002
A	Acid Soluble Nickel (Ni)	mg/l	ALM 31 <0.002
A	Acid Soluble Zinc (Zn)	mg/l	ALM 31 0.040
A	Acid Soluble Cadmium (Cd)	mg/l	ALM 31 <0.002
A	E.coli	CFU/100ml	ALM 40 <1
A	Total coliform	CFU/100ml	ALM 40 <1
A	TotalViableCount	CFU/ml	ALM 43 <1
A	Turbidity	NTU	ALM 21 0.212
N	Free chlorine (Cl <sub>2</sub> )	mg/l	ALM 23 <0.1
A	Total organic carbon (TOC)	mg/l	ALM 63 2.11
N	Temperature	°C	ALM 20 21.1
N	Total oxidised nitrogen	mg/l	ALM 26 4.73
N	Monochloramine	mg/l	ALM 67 0.12

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.