

KOMATI POWER STATION

Private Bag
BLINKPAN
2250

CHEMICAL ANALYSIS

Our Ref: KPS / 470 - 477 / C /07/11

Date Received: 22 July 2011

Date Reported : 3 August 2011

Quantity Analyzed: 8

C473

Attention: THABO MOGASHWA

Analysis Results mg/l	Police Station Potable	SANS Standards -241 (2005)	
		Class I (recommended operational limit)	Class II (max. allowable for limited duration)
Total Dissolved Solids	140	< 1 000	> 1 000 - 2 400
Nitrate & Nitrite as N	0.42	< 10	> 10 - 20
Chlorides as Cl	18	< 200	> 200 - 600
Total Alkalinity as CaCO ₃	61		
Fluoride as F	0.27	< 1.0	> 1.0 - 1.5
Sulphate as SO ₄	24.7	< 400	> 400 - 600
Total Hardness as CaCO ₃	74		
Calcium Hardness as CaCO ₃	38		
Magnesium Hardness as CaCO ₃	36		
Calcium as Ca	15.2	< 150	> 150 - 300
Magnesium as Mg	8.74	< 70	> 70 - 100
Sodium as Na	18.5	< 200	> 200 - 400
Potassium as K	2.87	< 50	> 50 - 100
Iron as Fe	0.03	< 0.20	> 0.20 - 2.0
Manganese as Mn	<0.01	< 0.10	> 0.10 - 1.0
Conductivity at 25° C in mS/m	22.2	< 150	> 150 - 370
pH-Value at 25 ° C	8.25	5.0 - 9.5	> 4.0 - 10.0
Turbidity as N.T.U.	0.77	< 1	> 1 - 5
Free Residual Chlorine Cl ₂	<0.1		
Total Residual Chlorine Cl ₂	<0.1		
Free & Saline Ammonia NH ₃ as N	<0.20		
Aluminium as Al	<0.01	< 0.30	> 0.30 - 0.50

All heavy metal analyses have been performed on filtered samples.
Tests marked with an asterisk * are not SANAS accredited
These results are related only to the items tested

QUALITY CONTROL CHECKS	
Cation Balance	2.36
Anion Balance	2.29
% Difference	1.5
Measured TDS	140
Calculated TDS	127
Limits > 1.0 - <1.2	1.1
Calcul TDS / E.C. (0.55 - 0.70)	0.6



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Analysis Results mg/l	Police Station Potable	SANS Standards -241 (2005)	
		Class 1 (recommended operational limit)	Class 2 (max allowable for limited duration)
Selenium as Se	<0.01	<0.02	>0.02 - 0.05
Vanadium as V	<0.01	<0.20	>0.2 - 0.5
Total Organic Carbon (TOC)	4.93		
Phenolic Compounds	<0.005	<0.01	>0.01 - 0.07
Cyanide as CN *	<0.01	<0.05	>0.05 - 0.07
Cadmium as Cd	<0.003	<0.005	>0.005 - 0.01
Cobalt as Co	<0.01	<0.50	>0.50 - 1.0
Total Chromium as Cr	<0.01	<0.10	>0.10 - 0.50
Copper as Cu	<0.01	<1.0	>1.0 - 2.0
Antimony as Sb	<0.005	<0.01	>0.01 - 0.05
Nickel as Ni	<0.01	<0.15	>0.15 - 0.35
Lead as Pb	<0.01	<0.02	>0.02 - 0.05
Zinc as Zn	0.01	<5.0	>5.0 - 10.0
Arsenic as As	<0.01	<0.01	>0.01 - 0.05
Mercury as Hg	<0.001	<0.001	>0.001 - 0.005
Colour as Pt-Co*	5	<20	>20 - 50
Odour*	No offensive odour		
Taste*	Acceptable taste		

All heavy metal analyses have been performed on filtered samples.

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P.L.G. UYS (M.D.)