

**NELSON MANDELA METROPOLITAN MUNICIPALITY
SCIENTIFIC SERVICES
TARIFFS FOR 2017/18**

<u>Analytical Parameter</u>	<u>Cost/Sample</u> (2016/2017)	<u>Cost/Sample</u> (2017/2018)
	R471/hr	R499/hr
<u>Physical/Chemical Water Analysis</u>		
pH	R48	R51
Electrical conductivity **	R56	R59
Colour *	R39	R42
Turbidity *	R39	R42
Total dissolved solids **	R80	R85
Total, carbonate & bicarbonate alkalinity *	R52	R55
Total hardness + calcium & magnesium*	R192	R203
Calcium *	R95	R101
Magnesium *	R95	R101
Sodium *	R95	R101
Potassium *	R95	R101
Chloride **	R95	R101
Sulphate **	R95	R101
Nitrate + nitrite *	R119	R127
Fluoride *	R95	R101
Phosphorus	R119	R127
Silica	R119	R127
Aluminium	R153	R162
Free & Total Residual Chlorine	R95	R101
Boron by ICP	R119	R127
Water for Potability Purposes - all */** parameters	R1,298	R1,376
Water for irrigation purposes - all ** parameters includes pH, EC, TDS, TA, Cl, SO4. Extras are Na & B.	R 428	R454
Drinking Water to full SABS 241-2001 specification, but excluding somatic coliphages, enteric viruses & protozoan parasites.	R4,159	R4,408
Water for Bottling to full SABS 1657-1996 spec. excl. organochlorinepesticides, PCB's and organophosphate pesticides.	R2,924	R3,100
<u>Sewage/Effluent/Sludge Analyses</u>		
Ammonical nitrogen	R133	R141
Biochemical oxygen demand	R228	R241
Chemical oxygen demand	R126	R133
Methylene Blue Active Substances (Detergents)	R360	R381
Moisture	R48	R51
Nitrate nitrogen	R119	R127
Nitrite nitrogen	R119	R127
Permanganate value	R70	R74
Settleable solids	R39	R42
Settleable solids for SVI & DSVI	R48	R51
Suspended solids	R44	R47
Total & Volatile Solids	R95	R101
Total Kjeldahl nitrogen	R224	R237
Total/Dissolved Organic Carbon	R142	R151
<u>Miscellaneous Analyses</u>		
Boron by ICP	R130	R137
Cyanide - solid & liquid samples	R144	R152
Phenols	R184	R195
Sulphide	R140	R148
		R0

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All Metals by ICP/AA - per element	R130	R137
Mercury or Arsenic or Selenium	R259	R275
A suite of 8 or more Metals by ICP per element		
Chromium (hexavalent)	R119	R127
Soil Analysis - Ambic 1 - P, Na, K, Ca & Mg	R719	R763
Calorific Value	R559	R593
Cement content of mortars	R416	R441
Compost/manure analysis - TKN, P, K etc.	R799	R847
Fat - Feedstuffs	R217	R230
Flash point	R184	R195
Oil & Grease - petroleum ether extraction	R280	R296
Pesticides - minimum	R559	R593
Trihalomethanes (THM's)	R140	R148
Flocculation Testing - minimum x complexity factor	R1,439	R1,525
Distilled Water/ litre	R9	R9
<u>Microbiological & bacteriological Analyses</u>		
<u>Milk & Dairy Samples</u>		
Total bacterial count	R95	R101
Total coliform count	R69	R73
E. coli - presence/absence	R72	R77
Ethanol stability	R44	R47
Phosphatase activity	R66	R70
Antibiotics & Inhibitory Substances	R44	R47
Coulter Count - Particle Count	R72	R77
<u>Water Samples</u>		
Total coliform count	R112	R119
Faecal coliform count	R112	R119
E. coli count	R153	R162
Total bacterial count	R72	R77
Enterococci	R112	R119