

## ANNEXURE "A"

NELSON MANDELA METROPOLITAN MUNICIPALITY  
SCIENTIFIC SERVICES  
PROPOSED TARIFFS FOR 2015/16

Analytical Parameter	Cost/Sample (2014/2015)	Cost/Sample (2015/2016)
	R405/hr	R430/hr
Physical/Chemical Water Analysis		
pH	R42	R44
Electrical conductivity **	R48	R51
Colour *	R34	R36
Turbidity *	R34	R36
Total dissolved solids **	R69	R73
Total, carbonate & bicarbonate alkalinity *	R45	R48
Total hardness + calcium & magnesium*	R165	R175
Calcium *	R82	R87
Magnesium *	R82	R87
Sodium *	R82	R87
Potassium *	R82	R87
Chloride **	R82	R87
Sulphate **	R82	R87
Nitrate + nitrite *	R103	R109
Fluoride *	R82	R87
Phosphorus	R103	R109
Silica	R103	R109
Aluminium	R131	R139
Free & Total Residual Chlorine	R82	R87
Boron by ICP	R103	R109
Water for Potability Purposes - all */** parameters	R1,118	R1,185
Water for irrigation purposes - all ** parameters includes pH, EC, TDS, TA, Cl, SO4. Extras are Na & B.	R 369	R 391
Drinking Water to full SABS 241-2001 specification, but excluding somatic coliphages, enteric viruses & protozoan parasites.	R 3,583	R 3,798
Water for Bottling to full SABS 1657-1996 spec. excl. organochlorinepesticides, PCB's and organophosphate pesticides.	R 2,520	R 2,671
Sewage/Effluent/Sludge Analyses		
Ammoniacal nitrogen	R115	R122
Biochemical oxygen demand	R196	R208
Chemical oxygen demand	R108	R115
Methylene Blue Active Substances (Detergents)	R310	R328
Moisture	R42	R44
Nitrate nitrogen	R103	R109
Nitrite nitrogen	R103	R109
Permanganate value	R60	R64
Settleable solids	R34	R36
Settleable solids for SVI & DSVI	R42	R44
Suspended solids	R38	R41
Total & Volatile Solids	R82	R87
Total Kjeldahl nitrogen	R193	R204
Total/Dissolved Organic Carbon	R123	R130

Miscellaneous Analyses		
Boron by ICP	R112	R118
Cyanide - solid & liquid samples	R124	R131
Phenols	R159	R168
Sulphide	R120	R128
All Metals by ICP/AA - per element	R112	R118
Mercury or Arsenic or Selenium	R223	R237
A suite of 8 or more Metals by ICP per element		
Chromium (hexavalent)	R103	R109
Soil Analysis - Ambic 1 - P, Na, K, Ca & Mg	R620	R657
Calorific Value	R482	R511
Cement content of mortars	R358	R380
Compost/manure analysis - TKN, P, K etc.	R689	R730
Fat - Feedstuffs	R187	R198
Flash point	R159	R168
Oil & Grease - petroleum ether extraction	R241	R255
Pesticides - minimum	R482	R511
Trihalomethanes (THM's)	R120	R128
Flocculation Testing - minimum x complexity factor	R1,240	R1,314
Distilled Water/ litre	R8	R8
Microbiological & bacteriological Analyses		
Milk & Dairy Samples		
Total bacterial count	R82	R87
Total coliform count	R59	R63
E. coli - presence/absence	R62	R66
Ethanol stability	R38	R41
Phosphatase activity	R57	R60
Antibiotics & Inhibitory Substances	R38	R41
Coulter Count - Particle Count	R62	R66
Water Samples		
Total coliform count	R96	R102
Faecal coliform count	R96	R102
E. coli count	R131	R139
Total bacterial count	R62	R66
Enterococci	R96	R102