22 June 2011 to 22 July 2011 Date generated : 01 August 2011											
Parameter	Units of measure	Specifications (based on SANS241: 2005) Required compliance		No of results	Achieved compliance levels						
		95% min to Class I	99% min to Class II		Class I	Class II					
SPECIFICATIONS											
Chemical and Physical properti	ies										
Colour	(mg / I as Pt)	< 20	≤ 50	6	100.0%	100.0%					
Conductivity	(mS / m)	< 150	≤ 370	17	100.0%	100.0%					
эH	(pH units)	≥ 5 to ≤ 9.5	≥ 4 to ≤ 10	17	100.0%	100.0%					
urbidity	(NTU)	< 1	≤ 5	36	100.0%	100.0%					
otal Dissolved Solids	(mg / I)	< 1000	≤ 2400	6	100.0%	100.0%					
Taste	(FTN)	< 5	≤ 10	10	100.0%	100.0%					
Ddour	(TON)	< 5	≤ 10	10	100.0%	100.0%					
Organic Determinants											
otal Trihalomethanes	(ug / l)	< 200	≤ 300	8	100.0%	100.0%					
Phenols as C6H5OH	(ug / l)	< 10	≤ 70	4	100.0%	100.0%					
Dissolved Organic Carbon	(mg / l)	< 10	≤ 20	8	100.0%	100.0%					
Micro Elements		•									
Intimony	(µg / Las Sb)	< 10	≤ 50	3	100.0%	100.0%					
rsenic		< 10	≤ 50 ≤ 50	3	100.0%	100.0%					
Cadmium	(µg / Las As)	< 5	<u>≤ 30</u> ≤ 10	6	100.0%	100.0%					
Chromium (Total)	(µg / I as Cd)	< 100	≤ 500	6	100.0%	100.0%					
cobalt	(μg / I as Cr) (μg / I as Co)	< 500	≤ 500 ≤ 1000	6	100.0%	100.0%					
yanide (Recoverable)	(µg / I as CN)	< 50	≤ 70	3	100.0%	100.0%					
ead		< 20	≤ 70 ≤ 50	6	100.0%	100.0%					
	(µg / L as Pb)		<u>≤</u> 50	3	100.0%	100.0%					
lercury lickel	(μg / Las Hg) (μg / Las Ni)	< 1	≤ 350	6	100.0%	100.0%					
Selenium	(µg / I as Se)	< 20	≤ 50	3	100.0%	100.0%					
'anadium	(µg / Las V)	< 200	≤ 500	6	100.0%	100.0%					
		< 200	3 300	0	100.078	100.0 %					
Macro Elements & Miscellaneou											
luminium	(mg / I as Al)	< 0.3	≤ 0.5	6	100.0%	100.0%					
Ammonia	(mg / I as N)	< 1	≤ 2	3	100.0%	100.0%					
	(mg / I as Ca)	< 150	≤ 300	6	100.0%	100.0%					
Chloride	(mg / I as CI)	< 200	≤ 600	2	100.0%	100.0%					
	(mg / I as Cu)	<1	≤2	6	100.0%	100.0%					
luoride	(mg / I as F)	< 1	≤ 1.5	2	100.0%	100.0%					
ron	(mg / I as Fe)	< 0.2	≤2	6	100.0%	100.0%					
Agnesium	(mg / I as Mg)	< 70	≤ 100	6	100.0%	100.0%					
/anganese Jitrate & Nitrite	(mg / I as Mn) (mg / I as N)	< 10	≤ 1 ≤ 20	3	100.0%	100.0% 100.0%					
Potassium	(mg / Las K)	< 50	≤ 100	6	100.0%	100.0%					
Sodium	(mg / Las Na)	< 200	≤ 400	6	100.0%	100.0%					
Sulphate	(mg / Las SO4)	< 400	≤ 600	2	100.0%	100.0%					
linc	(mg / Las Zn)	< 400	≤ 10	6	100.0%	100.0%					
Microbiological				-							
. Coli	(cfu per 100 ml)	minimum of 95% of the original results shall be non-detected	minimum of 99% of the original and repeat/consecutive results shall be non- detected	45	100.0%	100.0%					
Other Determinants as required	by supply contract										
ree chlorine and monochloramine	(mg / l)	≥ 0.2 min 95% compliance		45	97.8%						
Notes :		compliance			<u>.</u>						
1) Specification date of effect : July 200 2) Guideline derived from SANS 241: 20		stry practices									

Metsimaholo Munic	ipality Water	Quality Report
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Parameter	Units of measure	Specification	No of samples	Mean - 3 SD	Mean - 1 SD	Mean	Mean + 1 SD	Mean + 3 SD	Standard
		-							Deviation
Chemical and Physical pro	operties				[]		1	[]	
Colour	(mg / I as Pt)	< 20	6	5.00	5.00	5.00	5.00	5.00	0.00
Conductivity	(mS / m)	< 150	17	18.00	21.87	27.71	33.55	35.00	5.84
Н	(pH units)	≥ 5 to ≤ 9.5	17	7.25	7.48	7.70	7.93	8.02	0.23
Furbidity	(NTU)	< 1	36	0.21	0.21	0.28	0.35	0.42	0.07
Fotal Dissolved Solids	(mg / l)	< 1000	6	135.00	138.74	179.17	219.59	220.00	40.42
Hardness	(mg / I as CaCO3)	> 20 to < 200	6	65.00	68.31	94.33	120.36	130.00	26.03
Faste	(FTN)	< 5	10	1.00	1.00	1.00	1.00	1.00	0.00
Ddour	(TON)	< 5	10	1.00	1.00	1.00	1.00	1.00	0.00
Organic Determinants									
Fotal Trihalomethanes	(ug / l)	< 200	8	36.70	39.31	49.06	58.80	63.04	9.75
Phenols as C6H5OH	(ug / l)	< 10	4	2.70	2.75	2.93	3.10	3.10	0.17
Dissolved Organic Carbon	(mg / l)	< 10	8	5.00	5.08	5.30	5.52	5.70	0.22
Micro Elements							• • • • • • • • • • • • • • • • • • •		
Antimony	(µg / Las Sb)	< 10	3	1.00	1.00	1.00	1.00	1.00	0.00
Arsenic	(µg / Las As)	< 10	3	1.00	1.00	1.67	2.82	3.00	1.15
Cadmium	(µg / I as Cd)	< 5	6	1.25	1.25	1.25	1.25	1.25	0.00
Chromium (Total)	(µg / Las Cr)	< 100	6	5.00	5.00	5.00	5.00	5.00	0.00
Cobalt	(µg / Las Co)	< 500	6	7.50	7.50	7.50	7.50	7.50	0.00
Cyanide (Recoverable)	(µg / Las CN)	< 50	3	5.00	5.00	5.00	5.00	5.00	0.00
_ead	(µg / I as Pb)	< 20	6	4.00	4.00	4.00	4.00	4.00	0.00
Mercury	(µg / I as Hg)	< 1	3	0.40	0.40	0.40	0.40	0.40	0.00
Nickel	(µg / L as Ni)	< 150	6	7.50	7.50	7.50	7.50	7.50	0.00
Selenium	(µg / I as Se)	< 20	3	1.00	1.00	1.00	1.00	1.00	0.00
Vanadium	(µg / I as V)	< 200	6	15.00	15.00	15.00	15.00	15.00	0.00
Macro Elements & Miscell		< 0.3	6	0.005	0.005	0.012	0.022	0.030	0.011
Aluminium	(mg / I as Al)								
Ammonia	(mg / I as N)	< 1 < 150	3 6	0.122	0.122	0.122 30.000	0.122	0.122 45.000	0.000
	(mg / I as Ca)		2		18.441		41.559		11.559
Chloride	(mg / I as CI)	< 200		12.000	12.000	12.000	12.000	12.000	0.000
Copper	(mg / I as Cu)	< 1	6	0.005	0.005	0.008	0.014	0.020	0.006
Fluoride	(mg / I as F)	< 1	2	0.180	0.180	0.185	0.190	0.190	0.007
ron .	(mg / I as Fe)	< 0.2	6	0.010	0.010	0.048	0.095	0.110	0.047
Magnesium	(mg / I as Mg)	< 70	6	3.200	3.200	4.400	5.704	6.300	1.304
Manganese	(mg / I as Mn)	< 0.1	6	0.002	0.002	0.006	0.010	0.010	0.005
Vitrate & Nitrite	(mg / I as N)	< 10	3	0.010	0.052	0.325	0.500	0.500	0.273
Potassium	(mg / I as K)	< 50	6	0.155	0.444	1.526	2.608	3.000	1.082
Sodium	(mg / I as Na)	< 200	6	6.300	6.632	7.983	9.335	9.900	1.351
Sulphate	(mg / I as SO4)	< 400	2	15.000	15.000	15.500	16.000	16.000	0.707
Zinc	(mg/lasZn)	< 5	6	0.004	0.004	0.004	0.004	0.004	0.000
Microbiological	T				[]		1		
:. Coli	(cfu per 100 ml)	minimum of 95% of the original results shall be non-detected	45	0.0	0.0	0	0.0	0.0	0.0
Other Determinants as rec	uired by supply	contract							
Free chlorine and monochloramin		≥ 0.2 min 95%	45	0.17	0.69	1.09	1.48	1.67	0.40
Notes :	1	compliance					1		