



Amatola Water Amanzi - *Water is life*

Scientific Services Department

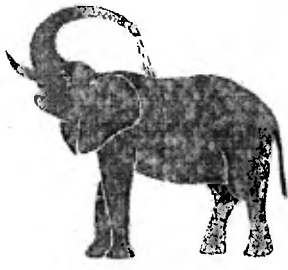
Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Indoor Sports Centre
 Received Date: 18/02/2015

Sample Number			125915
Sample Description			Indoor Sports Centre
Analysis Start Date			19/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	289.5
Ammonia as N	mg/l	C32	-0.07
Cadmium as Cd	µg/l	C03	-0.12
Calcium as Ca	mg/l	C01	72.55
Chloride as Cl	mg/l	C34	78.5
Chromium as Cr	µg/l	C03	-5.78
Cobalt as Co	µg/l	C03	-0.13
Copper as Cu	µg/l	C02	-1.67
EC - Autotitrator	mS/m	C29	79.02
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.52
Hardness (calcium)	mg/l		182.28
Hardness (magnesium)	mg/l		131.78
Hardness (total)	mg/l		314
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Lead as Pb	µg/l	C02	-1.89
Magnesium as Mg	mg/l	C01	32.04
Manganese as Mn	µg/l	C02	1.04
Nickel as Ni	µg/l	C03	-0.4
Nitrate as N	µg/l		0.2
pH - Autotitrator	-	C30	8.29
Potassium as K	mg/l	C01	5.71
Sodium as Na	mg/l	C01	241.01
Sulfate as SO4	mg/l	C33	62.89
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	7
Total Solids - dissolved	mg/l		395.12
Turbidity	NTU	C16	2.04





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

3

Report Number: 69217

Test List: FINAL_MK
 Scheme: J Street Community Tap
 Received Date: 18/02/2015

Sample Number	125914		
Sample Description	J Street Community Tap		
Analysis Start Date	19/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	273.8
Ammonia as N	mg/l	C32	-0.1
Cadmium as Cd	µg/l	C03	-0.07
Calcium as Ca	mg/l	C01	5.12
Chloride as Cl	mg/l	C34	76.91
Chromium as Cr	µg/l	C03	-6.87
Cobalt as Co	µg/l	C03	0.12
Copper as Cu	µg/l	C02	6.11
EC - Autotitrator	mS/m	C29	79.46
Faecal coliforms count Member Filtration	CFU/100ml	M05	1
Fluoride as F	mg/l	C35	0.51
Hardness (calcium)	mg/l		12.73
Hardness (magnesium)	mg/l		24.71
Hardness (total)	mg/l		38
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Lead as Pb	µg/l	C02	-1.8
Magnesium as Mg	mg/l	C01	5.99
Manganese as Mn	µg/l	C02	6.79
Nickel as Ni	µg/l	C03	2.06
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C30	8.39
Potassium as K	mg/l	C01	1.37
Sodium as Na	mg/l	C01	39.4
Sulfate as SO4	mg/l	C33	62.14
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	2
Total Solids - dissolved	mg/l		397.32
Turbidity	NTU	C16	2.27



4

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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: EFFLUENT
 Scheme: Delmontvalley WWTW
 Received Date: 18/02/2015



Sample Number	125927		
Sample Description	Delmontvalley WWTW		
Analysis Start Date	19/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Ammonia as N	mg/l	C32	3.2
Chemical Oxygen Demand - DR2800	mg/l		62
E coli waste water (colilert)	CFU/100ml	M01	>2420
EC @ 25°C	mS/m		122.8
Nitrate as N	µg/l		1.2
Nitrite as N	mg/l	C39	13.65
PH @ 25°C	-		7.33
Solids - Total suspended	mg/l		9

Test List: EFFLUENT
 Scheme: Mayfield Effluent
 Received Date: 05/02/2015



Sample Number	125781		
Sample Description	Mayfield Effluent		
Analysis Start Date	05/02/2015		
Analysis End Date	16/02/2015		
Comment			
	Test	Units	Method No
Ammonia as N	mg/l	C32	10.2
Chemical Oxygen Demand - DR2800	mg/l		50
C	mg/l		0.09
E coli waste water (colilert)	CFU/100ml	M01	261
EC @ 25°C	mS/m		128.8
Nitrate as N	µg/l		0.5
Nitrite as N	mg/l	C39	2.95
Ortho phosphate - Aquakem	mg/l	C37	3.5
PH @ 25°C	-		8
Solids - Total suspended	mg/l		1



Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - *Water is life*
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Alicedale Community Tap WTW
 Received Date: 04/02/2015

Sample Number	125767		
Sample Description	Alicedale Community Tap WTW		
Analysis Start Date	04/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		99.54
Ammonia as N	mg/l	C32	0.01
Cadmium as Cd	µg/l	C03	-0.08
Calcium as Ca	mg/l	C01	23.3
Chloride as Cl	mg/l	C34	156.27
Chlorine	mg/l		0.24
Chromium as Cr	µg/l	C03	-6.42
Copper as Cu	µg/l	C02	-0.81
EC - Autotitrator	mS/m	C29	72.19
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.13
Hardness (calcium)	mg/l		57.43
Hardness (magnesium)	mg/l		65.89
Hardness (total)	mg/l		123
Heterotrophic plate count @35°C	CFU/1ml	M03	2.5
Lead as Pb	µg/l	C02	-1.32
Magnesium as Mg	mg/l	C01	15.78
Manganese as Mn	µg/l	C02	6.91
Nickel as Ni	µg/l	C03	-0.13
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	7.85
pH @ Water Treatment Works (Plants)	-		7.62
Potassium as K	mg/l	C01	5.08
Sodium as Na	mg/l	C01	101.36
Sulphate as SO4	mg/l	C33	21.22
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		360.94
Turbidity	NTU	C16	0.92
Turbidity @ WTW	NTU		1.58
Zinc as Zn	µg/l	C02	16.48



Amatola Water Amarizi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

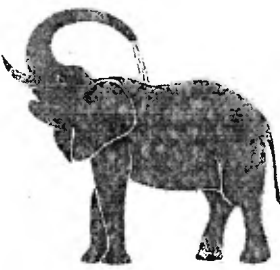
Test List: FINAL_MK
 Scheme: Alicedale Community Tap WTW
 Received Date: 10/02/2015

Sample Number		125832	
Sample Description		Alicedale Community Tap WTW	
Analysis Start Date		10/02/2015	
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		93.82
Ammonia as N	mg/l	C32	-0.04
Ammonium as Cd	µg/l	C03	-0.06
Calcium as Ca	mg/l	C01	32.04
Chloride as Cl	mg/l	C34	157.67
Chlorine	mg/l		0.11
Chromium as Cr	µg/l	C03	-5.81
Cobalt as Co	µg/l	C03	0.01
Copper as Cu	µg/l	C02	2.57
EC - Autotitrator	mS/m	C29	74.12
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.15
Hardness (calcium)	mg/l		79.9
Hardness (magnesium)	mg/l		98.83
Hardness (total)	mg/l		179
Heterotrophic plate count @35°C	CFU/1ml	M03	38
Lead as Pb	µg/l	C02	-1.95
Magnesium as Mg	mg/l	C01	24.09
Manganese as Mn	µg/l	C02	-0.48
Nickel as Ni	µg/l	C03	7.29
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	7.87
pH @ Water Treatment Works (Plants)	-		8.82
Phosphorus as K	mg/l	C01	3.29
Sodium as Na	mg/l	C01	117.45
Sulphate as SO4	mg/l	C33	23.68
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		370.6
Turbidity	NTU	C16	0.56
Turbidity @ WTW	NTU		0.62

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK
 Scheme: Alicedale Community Tap WTW
 Received Date: 18/02/2015

Sample Number	125922		
Sample Description	Alicedale Community Tap WTW		
Analysis Start Date	18/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	104.6
Ammonia as N	mg/l	C32	-0.09
Chlorine as Cl	mg/l	C34	152.1
Chlorine	mg/l		0.45
EC - Autotitrator	mS/m	C29	73.42
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.13
Heterotrophic plate count @35°C	CFU/1ml	M03	1.5
Nitrate as N	µg/l		0
pH - Autotitrator	-	C30	7.85
pH @ Water Treatment Works (Plants)	-		8.4
Sulphate as SO4	mg/l	C33	19.37
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		367.1
Turbidity	NTU	C16	1.77
Turbidity @ WTW	NTU		1.84

Test List: FINAL_MK
 Scheme: Alicedale Community Tap WTW
 Received Date: 24/02/2015

Sample Number	125981		
Sample Description	Alicedale Community Tap WTW		
Analysis Start Date	24/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Chlorine	mg/l		0.13
EC - Autotitrator	mS/m	C29	72.83
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Nitrate as N	µg/l		0.2
pH - Autotitrator	-	C30	7.96
pH @ Water Treatment Works (Plants)	-		7.76
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	7
Total Solids - dissolved	mg/l		364.17
Turbidity	NTU	C16	0.74
Turbidity @ WTW	NTU		0.62



Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

9

Report Number: 69217

Test List: FINAL_MK

Scheme: Beaufort Str Police Station



Received Date: 04/02/2015

Sample Number	125777			
Sample Description	Beaufort Str Police Station			
Analysis Start Date	04/02/2015			
Analysis End Date				
Comment				
	Test	Units	Method No	
	Alkalinity - Autotitrator	mg/l	C28	56.35
	Aluminium as Al	µg/l	C09	29.54
	Ammonia as N	mg/l	C32	0.03
	Calcium as Cd	µg/l	C03	-0.05
	Calcium as Ca	mg/l	C01	8.76
	Chloride as Cl	mg/l	C34	82.33
	Chlorine	mg/l		0.1
	Chromium as Cr	µg/l	C03	-6.69
	Copper as Cu	µg/l	C02	14.77
	EC - Autotitrator	mS/m	C29	34.35
	Faecal coliforms count Member Filtration	CFU/100ml	M05	0
	Fluoride as F	mg/l	C35	0.03
	Hardness (calcium)	mg/l		21.97
	Hardness (magnesium)	mg/l		33.77
	Hardness (total)	mg/l		56
	Heterotrophic plate count @35°C	CFU/1ml	M03	7.5
	Iron (total) as Fe	µg/l	C02	48.28
	Lead as Pb	µg/l	C02	-0.93
	Magnesium as Mg	mg/l	C01	8.16
	Nickel as Ni	µg/l	C03	2.16
	Nitrate as N	µg/l		-0.1
	pH - Autotitrator	-	C30	7.16
	pH @ Water Treatment Works (Plants)	-		7.79
	Phosphorus as K	mg/l	C01	1.65
	Sodium as Na	mg/l	C01	44.56
	Sulphate as SO4	mg/l	C33	11.18
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
	Total Solids - dissolved	mg/l		171.75
	Turbidity	NTU	C16	0.95
	Turbidity @ WTW	NTU		1.01
	Zinc as Zn	µg/l	C02	0.13





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: Beaufort Str Police Station

Received Date: 18/02/2015

Sample Number			125919
Sample Description			Beaufort Str Police Station
Analysis Start Date			19/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	61.52
Ammonia as N	mg/l	C32	-0.08
Ammonium as Cd	µg/l	C03	-0.63
Calcium as Ca	mg/l	C01	35.29
Chloride as Cl	mg/l	C34	127.98
Chromium as Cr	µg/l	C03	-6.46
Cobalt as Co	µg/l	C03	0.42
Copper as Cu	µg/l	C02	0.52
EC - Autotitrator	mS/m	C29	55.73
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.06
Hardness (calcium)	mg/l		87.39
Hardness (magnesium)	mg/l		107.07
Hardness (total)	mg/l		194
Heterotrophic plate count @35°C	CFU/1ml	M03	9.5
Lead as Pb	µg/l	C02	-5.43
Magnesium as Mg	mg/l	C01	26.3
Manganese as Mn	µg/l	C02	-0.49
Nickel as Ni	µg/l	C03	13.61
Nitrate as N	µg/l		0
pH - Autotitrator	-	C30	7.36
Potassium as K	mg/l	C01	3.71
Sodium as Na	mg/l	C01	136.21
Sulfate as SO4	mg/l	C33	8.94
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	11
Total Solids - dissolved	mg/l		278.65
Turbidity	NTU	C16	0.79





Amatola Water Amanzi - *Water is life*
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: Riebeeck Communal Tap

Received Date: 04/02/2015

Sample Number			125776
Sample Description			Riebeeck Communal Tap
Analysis Start Date			04/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	272.7
Aluminium as Al	µg/l	C09	-22.3
Ammonia as N	mg/l	C32	0.02
Arsenic as Cd	µg/l	C03	-0.09
Calcium as Ca	mg/l	C01	9.38
Chloride as Cl	mg/l	C34	140.1
Chlorine	mg/l		1.28
Chromium as Cr	µg/l	C03	-6.68
Copper as Cu	µg/l	C02	-0.31
EC - Autotitrator	mS/m	C29	58.33
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.14
Hardness (calcium)	mg/l		23.47
Hardness (magnesium)	mg/l		61.77
Hardness (total)	mg/l		85
Heterotrophic plate count @35°C	CFU/1ml	M03	110
Lead as Pb	µg/l	C02	-0.4
Magnesium as Mg	mg/l	C01	15.33
Manganese as Mn	µg/l	C02	24.11
Nickel as Ni	µg/l	C03	4.27
Nitrate as N	µg/l		-0.2
pH - Autotitrator	-	C30	7.54
pH @ Water Treatment Works (Plants)	-		8.23
Potassium as K	mg/l	C01	1.24
Sodium as Na	mg/l	C01	86.99
Sulphate as SO4	mg/l	C33	19.53
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		291.67
Turbidity	NTU	C16	1.91
Turbidity @ WTW	NTU		2.25
Zinc as Zn	µg/l	C02	15.99





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Riebeeck Communal Tap
 Received Date: 10/02/2015



Sample Number			125828
Sample Description			Riebeeck Communal Tap
Analysis Start Date			10/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		51.92
Ammonia as N	mg/l	C32	0
Chloride as Cl	µg/l	C03	-0.13
Calcium as Ca	mg/l	C01	3.91
Chlorine	mg/l		0.89
Chromium as Cr	µg/l	C03	-6.15
Cobalt as Co	µg/l	C03	0.25
Copper as Cu	µg/l	C02	-1.22
EC - Autotitrator	mS/m	C29	55.57
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.17
Hardness (calcium)	mg/l		9.74
Hardness (magnesium)	mg/l		22.65
Hardness (total)	mg/l		32.7
Heterotrophic plate count @35°C	CFU/1ml	M03	0
Lead as Pb	µg/l	C02	-1.7
Magnesium as Mg	mg/l	C01	5.52
Manganese as Mn	µg/l	C02	138.47
Nickel as Ni	µg/l	C03	0.92
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	7.18
pH @ Water Treatment Works (Plants)	-		6.78
Potassium as K	mg/l	C01	1.17
Sodium as Na	mg/l	C01	32.76
Sulphate as SO4	mg/l	C33	18.43
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		277.86
Turbidity	NTU	C16	2.19
Turbidity @ WTW	NTU		2.66





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

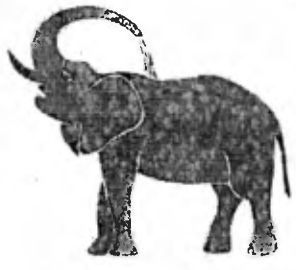
Scheme: Riebeeck Communal Tap

Received Date: 18/02/2015



Sample Number			125918
Sample Description			Riebeeck Communal Tap
Analysis Start Date			18/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	62.32
Ammonia as N	mg/l	C32	-0.1
Ammonium as Cd	µg/l	C03	-0.65
Calcium as Ca	mg/l	C01	36.35
Chloride as Cl	mg/l	C34	111.57
Chlorine	mg/l		0.67
Chromium as Cr	µg/l	C03	-6.91
Cobalt as Co	µg/l	C03	-0.02
Copper as Cu	µg/l	C02	2.64
EC - Autotitrator	mS/m	C29	52.26
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.16
Hardness (calcium)	mg/l		89.89
Hardness (magnesium)	mg/l		107.07
Hardness (total)	mg/l		197
Heterotrophic plate count @35°C	CFU/1ml	M03	0
Lead as Pb	µg/l	C02	-4.05
Magnesium as Mg	mg/l	C01	28.36
Manganese as Mn	µg/l	C02	-1.66
Nickel as Ni	µg/l	C03	10.32
Nitrate as N	µg/l		0
pH - Autotitrator	-	C30	6.98
pH @ Water Treatment Works (Plants)	-		6
Potassium as K	mg/l	C01	3.79
Sodium as Na	mg/l	C01	136.69
Sulphate as SO4	mg/l	C33	17.29
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		261.32
Turbidity	NTU	C16	2.09
Turbidity @ WTW	NTU		2.64





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Environmental Health Office
 Received Date: 04/02/2015

Sample Number			125775
Sample Description			Environmental Health Office
Analysis Start Date			04/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	60.41
Aluminium as Al	µg/l	C09	96.19
Ammonia as N	mg/l	C32	0.03
Cadmium as Cd	µg/l	C03	-0.09
Calcium as Ca	mg/l	C01	5.32
Chloride as Cl	mg/l	C34	67.41
Chlorine	mg/l		0.16
Chromium as Cr	µg/l	C03	-6.33
Copper as Cu	µg/l	C02	7.16
EC - Autotitrator	mS/m	C29	26.45
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.03
Hardness (calcium)	mg/l		13.23
Hardness (magnesium)	mg/l		25.53
Hardness (total)	mg/l		39
Heterotrophic plate count @35°C	CFU/1ml	M03	188
Iron (total) as Fe	µg/l	C02	70.99
Lead as Pb	µg/l	C02	0.37
Magnesium as Mg	mg/l	C01	6.2
Manganese as Mn	µg/l	C02	307.5
Nickel as Ni	µg/l	C03	1.6
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	7
pH - Water Treatment Works (Plants)	-		7.56
Potassium as K	mg/l	C01	1.26
Sodium as Na	mg/l	C01	35.82
Sulphate as SO4	mg/l	C33	11.12
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	8
Total Solids - dissolved	mg/l		132.25
Turbidity	NTU	C16	2.16
Turbidity @ WTW	NTU		2.55
Zinc as Zn	µg/l	C02	12.22



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK
 Scheme: Environmental Health Office
 Received Date: 18/02/2015



Sample Number			125917
Sample Description			Environmental Health Office
Analysis Start Date			18/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	56.23
Ammonia as N	mg/l	C32	-0.05
Ammonium as Cd	µg/l	C03	-0.62
Calcium as Ca	mg/l	C01	25.77
Chloride as Cl	mg/l	C34	130.38
Chromium as Cr	µg/l	C03	-6.64
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	-0.51
EC - Autotitrator	mS/m	C29	56.13
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.07
Hardness (calcium)	mg/l		64.92
Hardness (magnesium)	mg/l		78.24
Hardness (total)	mg/l		143
Heterotrophic plate count @35°C	CFU/1ml	M03	172
Lead as Pb	µg/l	C02	-5.13
Magnesium as Mg	mg/l	C01	18.68
Manganese as Mn	µg/l	C02	4.97
Nickel as Ni	µg/l	C03	-0.96
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C30	7.27
Potassium as K	mg/l	C01	5.67
Sodium as Na	mg/l	C01	121.03
Sulphate as SO4	mg/l	C33	9.21
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		280.63
Turbidity	NTU	C16	8.51



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK
 Scheme: Extension 7 Clinic
 Received Date: 04/02/2015

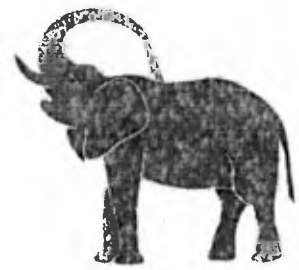
Sample Number			125774
Sample Description			Extension 7 Clinic
Analysis Start Date			04/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	293
Aluminium as Al	µg/l	C09	22.19
Amonia as N	mg/l	C32	0.01
Cadmium as Cd	µg/l	C03	-0.27
Calcium as Ca	mg/l	C01	30.17
Chloride as Cl	mg/l	C34	80.7
Chlorine	mg/l		0.1
Chromium as Cr	µg/l	C03	-6.31
Copper as Cu	µg/l	C02	2.18
EC - Autotitrator	mS/m		79
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.54
Hardness (calcium)	mg/l		74.91
Hardness (magnesium)	mg/l		98.83
Hardness (total)	mg/l		174
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Iron (total) as Fe	µg/l	C02	-25.67
Lead as Pb	µg/l	C02	-0.81
Magnesium as Mg	mg/l	C01	23.82
Manganese as Mn	µg/l	C02	-0.4
Nickel as Ni	µg/l	C03	7.48
Nitrate as N	µg/l		0
pH - Autotitrator	-		8.56
pH - Water Treatment Works (Plants)	-		8.92
Potassium as K	mg/l	C01	3.24
Sodium as Na	mg/l	C01	114.68
Sulphate as SO4	mg/l	C33	67.33
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	4
Total Solids - dissolved	mg/l		394.96
Turbidity	NTU	C16	1.12
Turbidity @ WTW	NTU		1.22
Zinc as Zn	µg/l	C02	-3.3



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK
 Scheme: Extension 7 Clinic
 Received Date: 18/02/2015

Sample Number			125916
Sample Description			Extension 7 Clinic
Analysis Start Date			19/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	274.7
Ammonia as N	mg/l	C32	-0.1
Cadmium as Cd	µg/l	C03	-0
Calcium as Ca	mg/l	C01	7.13
Chloride as Cl	mg/l	C34	75.89
Chromium as Cr	µg/l	C03	-7
Cobalt as Co	µg/l	C03	-0.16
Copper as Cu	µg/l	C02	-0.8
EC - Autotitrator	mS/m	C29	78.79
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.53
Hardness (calcium)	mg/l		17.73
Hardness (magnesium)	mg/l		18.12
Hardness (total)	mg/l		36
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Lead as Pb	µg/l	C02	-1.59
Magnesium as Mg	mg/l	C01	4.36
Manganese as Mn	µg/l	C02	-0.64
Nickel as Ni	µg/l	C03	1.04
Nitrate as N	µg/l		0
pH - Autotitrator	-	C30	8.39
Potassium as K	mg/l	C01	0.93
Sodium as Na	mg/l	C01	49.68
Sulfate as SO4	mg/l	C33	62.8
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	1
Total Solids - dissolved	mg/l		393.97
Turbidity	NTU	C16	3.87





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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Indoor Sports Centre
 Received Date: 04/02/2015

Sample Number			125773
Sample Description			Indoor Sports Centre
Analysis Start Date			04/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	30.33
Aluminium as Al	µg/l	C09	26.54
Ammonia as N	mg/l	C32	0.01
Asbestos as Cd	µg/l	C03	-0.07
Calcium as Ca	mg/l	C01	30.07
Chloride as Cl	mg/l	C34	81.15
Chlorine	mg/l		0.15
Chromium as Cr	µg/l	C03	-6.26
Copper as Cu	µg/l	C02	2.8
EC - Autotitrator	mS/m	C29	78.58
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.56
Hardness (calcium)	mg/l		74.91
Hardness (magnesium)	mg/l		94.71
Hardness (total)	mg/l		170
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Iron (total) as Fe	µg/l	C02	-23.52
Lead as Pb	µg/l	C02	-0.85
Magnesium as Mg	mg/l	C01	23.47
Manganese as Mn	µg/l	C02	0.62
Nickel as Ni	µg/l	C03	6.88
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C30	8.5
pH - Water Treatment Works (Plants)	-		8.9
Potassium as K	mg/l	C01	3.25
Sodium as Na	mg/l	C01	114.47
Sulphate as SO4	mg/l	C33	68.85
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	7
Total Solids - dissolved	mg/l		392.88
Turbidity	NTU	C16	5.27
Turbidity @ WTW	NTU		6.09
Zinc as Zn	µg/l	C02	-3.17





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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: J Street Community Tap
 Received Date: 04/02/2015

Sample Number	125772			
Sample Description	J Street Community Tap			
Analysis Start Date	04/02/2015			
Analysis End Date				
Comment				
	Test	Units	Method No	
	Alkalinity - Autotitrator	mg/l	C28	23.38
	Aluminium as Al	µg/l	C09	-16.77
	Ammonia as N	mg/l	C32	0.01
	Cadmium as Cd	µg/l	C03	-0.07
	Calcium as Ca	mg/l	C01	10.23
	Chloride as Cl	mg/l	C34	80.97
	Chlorine	mg/l		0.11
	Chromium as Cr	µg/l	C03	-8.71
	Copper as Cu	µg/l	C02	-1.62
	EC - Autotitrator	mS/m	C29	78.73
	Faecal coliforms count Member Filtration	CFU/100ml	M05	23
	Fluoride as F	mg/l	C35	0.54
	Hardness (calcium)	mg/l		24.97
	Hardness (magnesium)	mg/l		61.77
	Hardness (total)	mg/l		87
	Heterotrophic plate count @35°C	CFU/1ml	M03	1001
	Iron (total) as Fe	µg/l	C02	-42.54
	Lead as Pb	µg/l	C02	-0.74
	Magnesium as Mg	mg/l	C01	15.27
	Manganese as Mn	µg/l	C02	1.11
	Nickel as Ni	µg/l	C03	4.24
	Nitrate as N	µg/l		0
	pH - Autotitrator	-	C30	8.55
	pH - Water Treatment Works (Plants)	-		8.9
	Potassium as K	mg/l	C01	1.75
	Sodium as Na	mg/l	C01	77.68
	Sulphate as SO4	mg/l	C33	66.36
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04	648
	Total Solids - dissolved	mg/l		393.67
	Turbidity	NTU	C16	1.82
	Turbidity @ WTW	NTU		2.02
	Zinc as Zn	µg/l	C02	103.87



Amatola Water Amanzi - Water is life
Scientific Services Department
Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: J / Kleinshans Final WTW

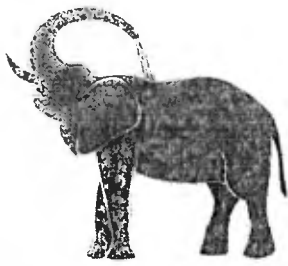
Received Date: 10/02/2015

Sample Number	125833		
Sample Description	J / Kleinshans Final WTW		
Analysis Start Date	10/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		276.4
Ammonia as N	mg/l	C32	-0.08
Ammonium as Cd	µg/l	C03	-0.07
Ammonium as Ca	mg/l	C01	31.11
Chloride as Cl	mg/l	C34	80.78
Chlorine	mg/l		0.08
Chromium as Cr	µg/l	C03	-3.22
Cobalt as Co	µg/l	C03	0.29
Copper as Cu	µg/l	C02	0.63
EC - Autotitrator	mS/m	C29	80.95
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.53
Hardness (calcium)	mg/l		77.41
Hardness (magnesium)	mg/l		98.83
Hardness (total)	mg/l		176
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Lead as Pb	µg/l	C02	-1.95
Magnesium as Mg	mg/l	C01	24.37
Manganese as Mn	µg/l	C02	18.08
Nickel as Ni	µg/l	C03	16.25
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C30	8.5
pH @ Water Treatment Works (Plants)	-		8.87
Potassium as K	mg/l	C01	3.92
Sodium as Na	mg/l	C01	117.18
Sulphate as SO4	mg/l	C33	66.84
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	4
Total Solids - dissolved	mg/l		202.37
Turbidity	NTU	C16	1.98
Turbidity @ WTW	NTU		2.14

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Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK

Scheme: J / Kleinshans Final WTW

Received Date: 18/02/2015

Sample Number	125923		
Sample Description	J / Kleinshans Final WTW		
Analysis Start Date	18/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	296.2
Ammonia as N	mg/l	C32	-0.11
Cadmium as Cd	µg/l	C03	-0.08
Calcium as Ca	mg/l	C01	23.8
Chloride as Cl	mg/l	C34	78.84
Chlorine	mg/l		0.3
Chromium as Cr	µg/l	C03	-6.72
Cobalt as Co	µg/l	C03	-0.16
Copper as Cu	µg/l	C02	-0.17
EC - Autotitrator	mS/m	C29	79.02
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.49
Hardness (calcium)	mg/l		59.93
Hardness (magnesium)	mg/l		65.89
Hardness (total)	mg/l		126
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Lead as Pb	µg/l	C02	-2.54
Magnesium as Mg	mg/l	C01	16.41
Manganese as Mn	µg/l	C02	2.37
Nickel as Ni	µg/l	C03	-0.83
Nitrate as N	µg/l		0.3
pH - Autotitrator	-	C30	8.46
pH @ Water Treatment Works (Plants)	-		9.09
Potassium as K	mg/l	C01	5.17
Sodium as Na	mg/l	C01	114.34
Sulphate as SO4	mg/l	C33	62.34
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	34
Total Solids - dissolved	mg/l		395.11
Turbidity	NTU	C16	0.93
Turbidity @ WTW	NTU		1.68



Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: J / Kleinshans Final WTW

Received Date: 25/02/2015



Sample Number	125982		
Sample Description	J / Kleinshans Final WTW		
Analysis Start Date	25/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
EC - Autotitrator	mS/m	C29	81.78
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Heterotrophic plate count @35°C	CFU/1ml	M03	64
Ammonia as N	µg/l		0.3
pH - Autotitrator	-	C30	8.39
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		408.91
Turbidity	NTU	C18	2.91





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: Nonzwakazi Community Tap in Alicedale ✓

Received Date: 04/02/2015

Sample Number	125771		
Sample Description	Nonzwakazi Community Tap in		
Analysis Start Date	04/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		107.3
Aluminium as Al	µg/l	C09	46.66
Ammonia as N	mg/l	C32	0.01
Cadmium as Cd	µg/l	C03	-0.07
Calcium as Ca	mg/l	C01	23.03
Chloride as Cl	mg/l	C34	163.1
Chlorine	mg/l		0.07
Chromium as Cr	µg/l	C03	-6.33
Copper as Cu	µg/l	C02	-0.25
EC - Autotitrator	mS/m	C29	72.81
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.13
Hardness (calcium)	mg/l		57.43
Hardness (magnesium)	mg/l		65.89
Hardness (total)	mg/l		123
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Iron (total) as Fe	µg/l	C02	-0.24
Lead as Pb	µg/l	C02	-0.35
Magnesium as Mg	mg/l	C01	15.77
Manganese as Mn	µg/l	C02	7.8
Nickel as Ni	µg/l	C03	-0.21
Nitrate as N	µg/l		0
pH - Autotitrator	-	C30	8.09
pH at Water Treatment Works (Plants)	-		7.6
Potassium as K	mg/l	C01	5.09
Sodium as Na	mg/l	C01	101.93
Sulphate as SO4	mg/l	C33	23.16
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	1
Total Solids - dissolved	mg/l		364.04
Turbidity	NTU	C16	1.39
Turbidity @ WTW	NTU		1.83
Zinc as Zn	µg/l	C02	11.3





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: Nonzwakazi Community Tap in Alicedale

Received Date: 10/02/2015



Sample Number	125823		
Sample Description	Nonzwakazi Community Tap in		
Analysis Start Date	10/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	96.89
Ammonia as N	mg/l	C32	-0.03
Cadmium as Cd	µg/l	C03	-0.12
Calcium as Ca	mg/l	C01	8.8
Chloride as Cl	mg/l	C34	161.2
Chlorine	mg/l		0.12
Chromium as Cr	µg/l	C03	-8.13
Cobalt as Co	µg/l	C03	0.35
Copper as Cu	µg/l	C02	0.14
EC - Autotitrator	mS/m	C29	74.09
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.19
Hardness (calcium)	mg/l		21.97
Hardness (magnesium)	mg/l		57.65
Hardness (total)	mg/l		80
Heterotrophic plate count @35°C	CFU/1ml	M03	0
Lead as Pb	µg/l	C02	-2.15
Magnesium as Mg	mg/l	C01	14.35
Manganese as Mn	µg/l	C02	19.57
Nickel as Ni	µg/l	C03	3.88
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	8.05
pH @ Water Treatment Works (Plants)	-		9.04
Potassium as K	mg/l	C01	1.09
Sodium as Na	mg/l	C01	79.78
Sulphate as SO4	mg/l	C33	23.2
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		370.44
Turbidity	NTU	C16	1.75
Turbidity @ WTW	NTU		1.99



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: Nonzwakazi Community Tap in Alicedale ✓

Received Date: 18/02/2015

Sample Number	125913		
Sample Description	Nonzwakazi Community Tap In		
Analysis Start Date	18/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	111.8
Ammonia as N	mg/l	C32	-0.08
Cadmium as Cd	µg/l	C03	-0.61
Calcium as Ca	mg/l	C01	4.53
Chloride as Cl	mg/l	C34	152.36
Chlorine	mg/l		0.08
Chromium as Cr	µg/l	C03	-8.16
Cobalt as Co	µg/l	C03	0.13
Copper as Cu	µg/l	C02	-0.56
EC - Autotitrator	mS/m	C29	73.96
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.13
Hardness (calcium)	mg/l		11.24
Hardness (magnesium)	mg/l		26.77
Hardness (total)	mg/l		38
Heterotrophic plate count @35°C	CFU/1ml	M03	314
Lead as Pb	µg/l	C02	-5.16
Magnesium as Mg	mg/l	C01	6.54
Manganese as Mn	µg/l	C02	33.57
Nickel as Ni	µg/l	C03	2.06
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C30	7.95
pH @ Water Treatment Works (Plants)	-		8.5
Potassium as K	mg/l	C01	1.33
Sodium as Na	mg/l	C01	37.93
Sulphate as SO4	mg/l	C33	20.73
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		369.81
Turbidity	NTU	C16	1.56
Turbidity @ WTW	NTU		1.69





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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Nonzwakazi Community Tap in Alicedale
 Received Date: 24/02/2015

Sample Number			125009
Sample Description			Nonzwakazi Community Tap in
Analysis Start Date			24/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Chlorine	mg/l		0.05
EC - Autotitrator	mS/m	C29	70.55
Faecal coliforms count Member Filtration	CFU/100ml	M05	3
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C30	8.09
pH @ Water Treatment Works (Plants)	-		7.98
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	40
Total Solids - dissolved	mg/l		352.73
Turbidity	NTU	C16	0.46
Turbidity @ WTW	NTU		0.67



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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK

Scheme: Riebeeck East Network Reservoir

Received Date: 04/02/2015



Sample Number	125770		
Sample Description	Riebeeck East Network Reservoir		
Analysis Start Date	04/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	249.5
Aluminium as Al	µg/l	C09	-22.8
Ammonia as N	mg/l	C32	0.02
Ammonium as Cd	µg/l	C03	0
Barium as Ca	mg/l	C01	9.48
Chloride as Cl	mg/l	C34	135.28
Chlorine	mg/l		0.78
Chromium as Cr	µg/l	C03	-6.75
Copper as Cu	µg/l	C02	-1.78
EC - Autotitrator	mS/m	C29	56.66
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.13
Hardness (calcium)	mg/l		23.72
Hardness (magnesium)	mg/l		61.77
Hardness (total)	mg/l		86
Heterotrophic plate count @35°C	CFU/1ml	M03	6
Iron (total) as Fe	µg/l	C02	-47.04
Lead as Pb	µg/l	C02	-1
Magnesium as Mg	mg/l	C01	14.5
Manganese as Mn	µg/l	C02	-0.51
Nickel as Ni	µg/l	C03	5.94
Nitrate as N	µg/l		-0.3
pH - Autotitrator	-	C30	7.16
pH @ Water Treatment Works (Plants)	-		7.96
Potassium as K	mg/l	C01	1.52
Sodium as Na	mg/l	C01	85.35
Sulphate as SO4	mg/l	C33	18.59
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		283.33
Turbidity	NTU	C16	1.92
Turbidity @ WTW	NTU		2.21
Zinc as Zn	µg/l	C02	111.78





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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Riebeeck East Network Reservoir
 Received Date: 10/02/2015



Sample Number	125822		
Sample Description	Riebeeck East Network Reservoir		
Analysis Start Date	10/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	55.86
Ammonia as N	mg/l	C32	-0.04
Cadmium as Cd	µg/l	C03	-0.11
Calcium as Ca	mg/l	C01	8.72
Chloride as Cl	mg/l	C34	129.3
Chlorine	mg/l		1.33
Chromium as Cr	µg/l	C03	-8.16
Cobalt as Co	µg/l	C03	-0.02
Copper as Cu	µg/l	C02	-1.04
EC - Autotitrator	mS/m	C29	53.96
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.2
Hardness (calcium)	mg/l		21.72
Hardness (magnesium)	mg/l		61.77
Hardness (total)	mg/l		84
Heterotrophic plate count @35°C	CFU/1ml	M03	0
Lead as Pb	µg/l	C02	-1.43
Magnesium as Mg	mg/l	C01	14.77
Manganese as Mn	µg/l	C02	4.91
Nickel as Ni	µg/l	C03	4.2
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	6.67
pH @ Water Treatment Works (Plants)	-		6.73
Potassium as K	mg/l	C01	1.22
Sodium as Na	mg/l	C01	81.63
Sulphate as SO4	mg/l	C33	17.29
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		269.81
Turbidity	NTU	C16	5.98
Turbidity @ WTW	NTU		6.7





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Riebeeck East Network Reservoir
 Received Date: 18/02/2015



Sample Number			125912
Sample Description			Riebeeck East Network Reservoir
Analysis Start Date			18/02/2015
Analysis End Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	75.36
Ammonia as N	mg/l	C32	-0.13
Cadmium as Cd	µg/l	C03	-0.04
Calcium as Ca	mg/l	C01	9.31
Chloride as Cl	mg/l	C34	114.34
Chlorine	mg/l		1.17
Chromium as Cr	µg/l	C03	-6.92
Cobalt as Co	µg/l	C03	0.07
Copper as Cu	µg/l	C02	-1.14
EC - Autotitrator	mS/m	C29	54.98
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.19
Hardness (calcium)	mg/l		23.22
Hardness (magnesium)	mg/l		61.77
Hardness (total)	mg/l		85
Heterotrophic plate count @35°C	CFU/1ml	M03	40
Lead as Pb	µg/l	C02	-2.09
Magnesium as Mg	mg/l	C01	15.34
Manganese as Mn	µg/l	C02	4.29
Nickel as Ni	µg/l	C03	5.33
pH - Autotitrator	-	C30	6.88
pH @ Water Treatment Works (Plants)	-		6.22
Potassium as K	mg/l	C01	1.73
Sodium as Na	mg/l	C01	79.45
Sulphate as SO4	mg/l	C33	18.69
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		274.92
Turbidity	NTU	C16	4.67
Turbidity @ WTW	NTU		5.68





Amatola Water Amanzi - Water is life

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
Scheme: Riebeeck East Network Reservoir
Received Date: 24/02/2015



Sample Number			125968
Sample Description			Riebeeck East Network Reservoir
Analysis Start Date			24/02/2015
Analysis End Date			
Comment			
	Test	Units	Method No
	Chlorine	mg/l	1.33
	EC - Autotitrator	mS/m	C29 55.64
	Faecal coliforms count Member Filtration	CFU/100ml	M05 0
	hetrophilic plate count @35°C	CFU/1ml	M03 0
	Nitrate as N	µg/l	-0.1
	pH - Autotitrator	-	C30 6.76
	pH @ Water Treatment Works (Plants)	-	7.34
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04 0
	Total Solids - dissolved	mg/l	278.22
	Turbidity	NTU	C18 3.5
	Turbidity @ WTW	NTU	3.7





Amatola Water Amanzi - Water is life

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
Scheme: Waainek WTW Final
Received Date: 04/02/2015



Sample Number			125785
Sample Description			Waainek WTW Final
Analysis Start Date			04/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	19.32
Ammonia as N	mg/l	C32	0.06
Cadmium as Cd	µg/l	C03	-0.11
Calcium as Ca	mg/l	C01	4.14
Chloride as Cl	mg/l	C34	58.68
Chlorine	mg/l		0.1
Chromium as Cr	µg/l	C03	-6.55
Copper as Cu	µg/l	C02	-1.64
EC - Autotitrator	mS/m	C29	23.64
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.02
Hardness (calcium)	mg/l		10.24
Hardness (magnesium)	mg/l		22.65
Hardness (total)	mg/l		33
Heterotrophic plate count @35°C	CFU/1ml	M03	96
Lead as Pb	µg/l	C02	-0.53
Magnesium as Mg	mg/l	C01	5.5
Manganese as Mn	µg/l	C02	106.15
Nickel as Ni	µg/l	C03	1.14
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	6.81
pH @ Water Treatment Works (Plants)	-		6.15
Potassium as K	mg/l	C01	1.15
Sodium as Na	mg/l	C01	33.64
Sulfate as SO4	mg/l	C33	10.35
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	1
Total Solids - dissolved	mg/l		118.2
Turbidity	NTU	C16	0.87
Turbidity @ WTW	NTU		1.02
Zinc as Zn	µg/l	C02	-1.8



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Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK
 Scheme: Waainek WTW Final
 Received Date: 10/02/2015



Sample Number		125830	
Sample Description		Waainek WTW Final	
Analysis Start Date		10/02/2015	
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		13.72
Ammonia as N	mg/l	C32	-0.06
Cadmium as Cd	µg/l	C03	-0.1
Calcium as Ca	mg/l	C01	3.93
Chloride as Cl	mg/l	C34	59.8
Chlorine	mg/l		2.2
Chromium as Cr	µg/l	C03	-4.99
Cobalt as Co	µg/l	C03	0.07
Copper as Cu	µg/l	C02	-1
EC - Autotitrator	mS/m	C29	24.05
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.03
Hardness (calcium)	mg/l		9.74
Hardness (magnesium)	mg/l		23.06
Hardness (total)	mg/l		32.7
Heterotrophic plate count @35°C	CFU/1ml	M03	1001
Lead as Pb	µg/l	C02	-1.46
Magnesium as Mg	mg/l	C01	5.55
Manganese as Mn	µg/l	C02	37.54
Nickel as Ni	µg/l	C03	1.72
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	6.5
pH @ Water Treatment Works (Plants)	-		6.74
Potassium as K	mg/l	C01	1.29
Sodium as Na	mg/l	C01	33.07
Sulphate as SO4	mg/l	C33	9.62
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		120.25
Turbidity	NTU	C16	0.98
Turbidity @ WTW	NTU		1.48

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report



Report Number: 69217

Test List: FINAL_MK
 Scheme: Waainek WTW Final
 Received Date: 18/02/2015



Sample Number	125920		
Sample Description	Waainek WTW Final		
Analysis Start Date	18/02/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	22.52
Ammonia as N	mg/l	C32	-0.1
Cadmium as Cd	µg/l	C03	-0.05
Calcium as Ca	mg/l	C01	43.52
Chloride as Cl	mg/l	C34	67.12
Chlorine	mg/l		3.24
Chromium as Cr	µg/l	C03	-6.78
Cobalt as Co	µg/l	C03	0.03
Copper as Cu	µg/l	C02	-0.96
EC - Autotitrator	mS/m	C29	29.17
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.05
Hardness (calcium)	mg/l		109.87
Hardness (magnesium)	mg/l		201.78
Hardness (total)	mg/l		312
Heterotrophic plate count @35°C	CFU/1ml	M03	0
Lead as Pb	µg/l	C02	-2.17
Magnesium as Mg	mg/l	C01	49.12
Manganese as Mn	µg/l	C02	4.77
Nickel as Ni	µg/l	C03	7.25
Nitrate as N	µg/l		-0.1
pH - Autotitrator	-	C30	6.57
pH @ Water Treatment Works (Plants)	-		7.38
Potassium as K	mg/l	C01	7.64
Sodium as Na	mg/l	C01	419.82
Sulphate as SO4	mg/l	C33	7.11
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		145.85
Turbidity	NTU	C16	2.04
Turbidity @ WTW	NTU		1.41



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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: FINAL_MK
 Scheme: Waainek WTW Final
 Received Date: 24/02/2015



Sample Number			125979
Sample Description			Waainek WTW Final
Analysis Start Date			24/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Chlorine	mg/l		0.27
EC - Autotitrator	mS/m	C29	28.1
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
trophic plate count @35°C	CFU/1ml	M03	0
Nitrate as N	µg/l		0
pH - Autotitrator		C30	6.7
pH @ Water Treatment Works (Plants)	-		6.28
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		140.5
Turbidity	NTU	C16	0.8
Turbidity @ WTW	NTU		1.17





Amatola Water Amanzi - Water is life
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69217

Test List: RAW_AUD_MK
 Scheme: J / Kleinshans Raw WTW
 Received Date: 10/02/2015



Sample Number	125834		
Sample Description	J / Kleinshans Raw WTW		
Analysis Start Date	11/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l		261
Ammonia as N	mg/l	C32	-0.07
Cadmium as Cd	µg/l	C03	-0.07
Calcium as Ca	mg/l	C01	22.84
Chloride as Cl	mg/l	C34	83.38
Chromium as Cr	µg/l	C03	-5.96
Cobalt as Co	µg/l	C03	0.14
Copper as Cu	µg/l	C02	-0.16
EC - Autotitrator	mS/m	C15	79.4
Fluoride as F	mg/l	C35	0.56
Hardness (calcium)	mg/l		57.43
Hardness (magnesium)	mg/l		65.89
Hardness (total)	mg/l		123
Lead as Pb	µg/l	C02	-1.16
Magnesium as Mg	mg/l	C01	15.94
Manganese as Mn	µg/l	C02	7.23
Nickel as Ni	µg/l	C03	-0.42
Nitrate as N	µg/l		0.6
pH - Autotitrator		C14	8.39
Potassium as K	mg/l	C01	5.1
Sodium as Na	mg/l	C01	107.51
Sulphate as SO4	mg/l	C33	69.97
Total Solids - dissolved	mg/l		388
Turbidity	NTU	C16	73.6





Amatola Water Amanzi - Water is life

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: RAW_AUD_MK
 Scheme: J / Kleinshans Raw WTW
 Received Date: 18/02/2015

Sample Number			125924
Sample Description			J / Kleinshans Raw WTW
Analysis Start Date			18/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	293.2
Ammonia as N	mg/l	C32	-0.08
Chloride as Cl	mg/l	C34	77.34
Coliform waste water (colilert)	CFU/100ml	M01	11
Electrical Conductivity - Autotitrator	mS/m	C15	79
Fluoride as F	mg/l	C35	0.51
Nitrate as N	µg/l		0.6
pH - Autotitrator	-	C14	8.39
pH @ Water Treatment Works (Plants)	-		9.04
Sulphate as SO4	mg/l	C33	65.7
Total Solids - dissolved	mg/l		395
Turbidity	NTU	C18	84.3
Turbidity @ WTW	NTU		115



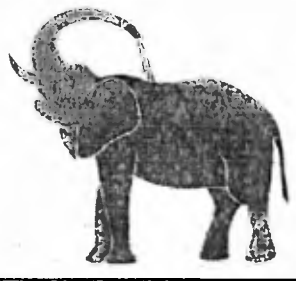


Amatola Water Amanzi - Water is life
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69217

Test List: RAW_AUD_MK
 Scheme: Waainek WTW Raw
 Received Date: 04/02/2015

Sample Number			125766
Sample Description			Waainek WTW Raw
Analysis Start Date			04/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		21.47
Ammonia as N	mg/l	C32	0.06
Cadmium as Cd	µg/l	C03	-0.42
Cadmium as Ca	mg/l	C01	23.35
Cadmium as Cl	mg/l	C34	57.82
Chromium as Cr	µg/l	C03	-7.04
Cobalt as Co	µg/l	C03	-0.01
Copper as Cu	µg/l	C02	-0.67
E coli waste water (colliert)	CFU/100ml	M01	20
EC - Autotitrator	mS/m	C29	23.8
Fluoride as F	mg/l	C35	0.05
Hardness (calcium)	mg/l		57.43
Hardness (magnesium)	mg/l		65.89
Hardness (total)	mg/l		123
Lead as Pb	µg/l	C02	-1.94
Magnesium as Mg	mg/l	C01	18.43
Nickel as Ni	µg/l	C03	2.55
Nitrate as N	µg/l		-0.4
pH - Autotitrator	-	C30	6.59
pH @ Water Treatment Works (Plants)	-		5.68
Potassium as K	mg/l	C01	3.28
Sodium as Na	mg/l	C01	70.73
Sulphate as SO4	mg/l	C33	10.66
Total Solids - dissolved	mg/l		119
Tu	NTU	C16	13.1
Turbidity @ WTW	NTU		15.5



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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: RAW_AUD_MK
 Scheme: Waainek WTW Raw
 Received Date: 10/02/2015

Sample Number			125831
Sample Description			Waainek WTW Raw
Analysis Start Date			10/02/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l		17.1
Ammonia as N	mg/l	C32	-0.05
Cadmium as Cd	µg/l	C03	-0.12
Cadmium as Ca	mg/l	C01	22.61
Cadmium as Cl	mg/l	C34	56.18
Chromium as Cr	µg/l	C03	-5.8
Cobalt as Co	µg/l	C03	-0.11
Copper as Cu	µg/l	C02	-0.59
E coli waste water (coliert)	CFU/100ml	M01	10
EC - Autotitrator	mS/m	C15	22.5
Fluoride as F	mg/l	C35	0.07
Hardness (calcium)	mg/l		57.43
Hardness (magnesium)	mg/l		65.89
Hardness (total)	mg/l		123
Lead as Pb	µg/l	C02	-1.37
Magnesium as Mg	mg/l	C01	16.06
Manganese as Mn	µg/l	C02	5.4
Nickel as Ni	µg/l	C03	-0.95
Nitrate as N	µg/l		0.1
pH - Autotitrator	-	C14	7.67
pH @ Water Treatment Works (Plants)	-		6.7
Potassium as K	mg/l	C01	5
Sodium as Na	mg/l	C01	104.76
Sulphate as SO4	mg/l	C33	9.95
Tot. Sol. - dissolved	mg/l		111.1
Turbidity	NTU	C16	12.5
Turbidity @ WTW	NTU		14.3





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Scientific Services Department

Preliminary Water Quality Report

Report Number: 69217

Test List: RAW_AUD_MK
 Scheme: Wainek WTW Raw
 Received Date: 18/02/2015



Sample Number	125921		
Sample Description	Wainek WTW Raw		
Analysis Start Date	19/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	21.65
Ammonia as N	mg/l	C32	-0
Cadmium as Cd	µg/l	C03	-0.82
Calcium as Ca	mg/l	C01	28.1
Chloride as Cl	mg/l	C34	51.61
Chromium as Cr	µg/l	C03	-7.04
Cobalt as Co	µg/l	C03	-0.05
Copper as Cu	µg/l	C02	-0.12
EC - Autotitrator	mS/m	C15	183.4
Fluoride as F	mg/l	C35	0.06
Hardness (calcium)	mg/l		64.92
Hardness (magnesium)	mg/l		78.24
Hardness (total)	mg/l		143
Lead as Pb	µg/l	C02	-5.72
Magnesium as Mg	mg/l	C01	18.73
Manganese as Mn	µg/l	C02	-0.9
Nickel as Ni	µg/l	C03	-1.18
pH - Autotitrator	-	C14	7.15
Potassium as K	mg/l	C01	5.82
Sodium as Na	mg/l	C01	125.02
Sulphate as SO4	mg/l	C33	7.77
Total Solids - dissolved	mg/l		115.8
Turbidity	NTU	C18	17.6

Test : RAW_AUD_MK
 Scheme: Wainek WTW Raw
 Received Date: 24/02/2015

Sample Number	125980		
Sample Description	Wainek WTW Raw		
Analysis Start Date	24/02/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
E coli waste water (colliert)	CFU/100ml	M01	11
EC - Autotitrator	mS/m		7.07
Nitrate as N	µg/l		0.2
pH - Autotitrator	-		7.07
pH @ Water Treatment Works (Plants)	-		6.18
Total Solids - dissolved	mg/l		114.1
Turbidity	NTU	C18	14.3
Turbidity @ WTW	NTU		16.1