



195

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

Report Number: 69655

Physical Address

Amatola Water
Scientific Services
Nahoon Dam Complex

Postal Address

Private Bag X2
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5247

Samples Submitted By: Ntombi Tshicilela

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6139

Reported Date: 06/10/2015

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Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

196

Report Number: 69655

Test List: EFFLUENT
 Scheme: Delmontvalley WWTW
 Received Date: 16/09/2015

Sample Number	130202		
Sample Description	Delmontvalley WWTW		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
			0
	Chemical Oxygen Demand - DR3900	mg/l	C50
			177
	Chlorine	mg/l	
			0.06
	E coli waste water(colilert)	MPN/100ML	M01
			1553
	EC @ 25°C	mS/m	C15
			38.5
	Nitrite as N	mg/l	C39
			0.07
	Ortho phosphate - Aquakem as P	mg/l	C37
			0
	PH @ 25°C	-	C14
			7.98
	Solids - Total suspended	mg/l	
			10

Test List: EFFLUENT
 Scheme: Mayfield Effluent
 Received Date: 02/09/2015

Sample Number	130058		
Sample Description	Mayfield Effluent		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
			30.22
	E coli waste water(colilert)	MPN/100ML	M01
			345
	EC @ 25°C	mS/m	C15
			122.9
	Nitrite as N	mg/l	C39
			2.04
	Ortho phosphate - Aquakem as P	mg/l	C37
			5.02
	PH @ 25°C	-	C14
			7.59
	Solids - Total suspended	mg/l	
			11



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197

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

Report Number: 69655

Test List: EFFLUENT
Scheme: Mayfield Effluent
Received Date: 16/09/2015

Sample Number	130200		
Sample Description	Mayfield Effluent		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
	Chemical Oxygen Demand - DR3800	mg/l	C50
	Chlorine	mg/l	
	E coli waste water (colibert)	MPN/100ML	M01
	EC @ 25°C	mS/m	C15
	Nitrite as N	mg/l	C39
	Ortho phosphate - Aquakem as P	mg/l	C37
	PH @ 25°C	-	C14
	Solids - Total suspended	mg/l	



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198

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

Report Number: 69655

Test List: SANS_241
 Scheme: Alicedale Community Tap WTW
 Received Date: 22/09/2015

Sample Number	130240		
Sample Description	Alicedale Community Tap WTW		
Sample Received Date	22/09/2015		
Sample Commencement Date	22/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Hardness - Autotitrator	mg/l	C28
			69.65
	Aluminium as Al	µg/l	C09
			111.5
	Ammonia as N	mg/l	C32
			0
	Cadmium as Cd	µg/l	C03
			0
	Chloride as Cl	mg/l	C34
			154.55
	Chlorine	mg/l	
			2.09
	Chromium as Cr	µg/l	C03
			0.54
	Cobalt as Co	µg/l	C03
			0
	Copper as Cu	µg/l	C02
			0.3
	Cyanide (recoverable) as CN	µg/l	C36
			0
	EC - Autotitrator @ 25°C	mS/m	C29
			69.91
	Ecoli	MPN/100ML	M01
			<1
	Fluoride as F	mg/l	C35
			0.12
	Heterotrophic plate count @35°C	CFU/1ml	M03
			<1
	Iron (total) as Fe	µg/l	C02
			57
	Lead as Pb	µg/l	C02
			0
	Manganese as Mn	µg/l	C02
			2.64
	Nickel as Ni	µg/l	C03
			0
	Nitrite as N	mg/l	C39
			0
	pH - Autotitrator @ 25°C	-	C30
			7.7
	Sulfate as SO4	mg/l	C33
			37.12
	Total coliform	MPN/100ML	M02
			<1
	Turbidity - dissolved	mg/l	
			349.53
	Turbidity @ WTW	NTU	
			1.14
	Zinc as Zn	µg/l	C02
			14



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199

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241

Scheme: Beaufort Str Police Station

Received Date: 02/09/2015

Sample Number	130043		
Sample Description	Beaufort Str Police Station		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Alkalinity - Autotitrator	mg/l	C28
	Aluminium as Al	µg/l	C09
	Ammonia as N	mg/l	C32
	Cadmium as Cd	µg/l	C03
	Chloride as Cl	mg/l	C34
	Chlorine	mg/l	
	Chromium as Cr	µg/l	C03
	Cobalt as Co	µg/l	C03
	Copper as Cu	µg/l	C02
	Cyanide (recoverable) as CN	µg/l	C36
	EC - Autotitrator @ 25°C	mS/m	C29
	Ecoli	MPN/100ML	M01
	Fluoride as F	mg/l	C35
	Heterotrophic plate count @35°C	CFU/1ml	M03
	Iron (total) as Fe	µg/l	C02
	Lead as Pb	µg/l	C02
	Manganese as Mn	µg/l	C02
	Nickel as Ni	µg/l	C03
	Nitrite as N	mg/l	C39
	pH - Autotitrator @ 25°C	-	C30
	Sodium as Na	mg/l	C01
	Sulfate as SO4	mg/l	C33
	Total coliform	MPN/100ML	M02
	Total Solids - dissolved	mg/l	
	Turbidity	NTU	C16
	Turbidity @ WTW	NTU	
	Zinc as Zn	µg/l	C02



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200

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Beaufort Str Police Station
 Received Date: 16/09/2015

Sample Number	130184		
Sample Description	Beaufort Str Police Station		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Arsenic as Al	µg/l	C09	31.95
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	41.35
Chlorine	mg/l		0.23
Chromium as Cr	µg/l	C03	0.1
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	39.58
Cyanide (recoverable) as CN	µg/l	C38	0
EC - Autotitrator @ 25°C	mS/m	C29	19.98
E.coli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0
Heterotrophic plate count @35°C	CFU/1ml	M03	1
Iron (total) as Fe	µg/l	C02	44.8
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	3.74
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.07
pH - Autotitrator @ 25°C	-	C30	6.7
Sulphate as SO4	mg/l	C33	8.87
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		99.9
Turbidity	NTU	C16	0.48
Turbidity @ WTW	NTU		0.72
Zinc as Zn	µg/l	C02	4.93



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Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Riebeeck Communal Tap
 Received Date: 02/09/2015

Sample Number	130044		
Sample Description	Riebeeck Communal Tap		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Alkalinity - Autotitrator	mg/l	C28
	Ammonium as Al	µg/l	C09
	Ammonia as N	mg/l	C32
	Cadmium as Cd	µg/l	C03
	Chloride as Cl	mg/l	C34
	Chlorine	mg/l	
	Chromium as Cr	µg/l	C03
	Cobalt as Co	µg/l	C03
	Copper as Cu	µg/l	C02
	Cyanide (recoverable) as CN	µg/l	C36
	EC - Autotitrator @ 25°C	mS/m	C29
	Ecoli	MPN/100ML	M01
	Fluoride as F	mg/l	C35
	Heterotrophic plate count @35°C	CFU/1ml	M03
	Iron (total) as Fe	µg/l	C02
	Lead as Pb	µg/l	C02
	Manganese as Mn	µg/l	C02
	Nickel as Ni	µg/l	C03
	Nitrite as N	mg/l	C39
	pH - Autotitrator @ 25°C	-	C30
	Sodium as Na	mg/l	C01
	Sulphate as SO4	mg/l	C33
	Total coliform	MPN/100ML	M02
	Total Solids - dissolved	mg/l	
	Turbidity	NTU	C16
	Turbidity @ WTW	NTU	
	Zinc as Zn	µg/l	C02



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Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Riebeeck Communal Tap
 Received Date: 16/09/2015

Sample Number	130185		
Sample Description	Riebeeck Communal Tap		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	10.75
Ammonia as N	mg/l	C32	0.04
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	117.57
Chlorine	mg/l		0.25
Chromium as Cr	µg/l	C03	0.01
Cobalt as Co	µg/l	C03	0.09
Copper as Cu	µg/l	C02	0.02
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	56.45
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.19
Heterotrophic plate count @35°C	CFU/1ml	M03	<1
Iron (total) as Fe	µg/l	C02	0
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	6.96
Nickel as Ni	µg/l	C03	1.34
Nitrite as N	mg/l	C39	0.05
pH - Autotitrator @ 25°C	-	C30	7.02
Sulphate as SO4	mg/l	C33	16.81
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		262.23
Turbidity	NTU	C16	1.65
Turbidity @ WTW	NTU		2.58
Zinc as Zn	µg/l	C02	95.62





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Environmental Health Office
 Received Date: 02/09/2015

Sample Number	130045		
Sample Description	Environmental Health Office		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Alkalinity - Autotitrator	mg/l	C28
			6.72
	Aluminium as Al	µg/l	C09
			17.88
	Ammonia as N	mg/l	C32
			0
	Cadmium as Cd	µg/l	C03
			0
	Chloride as Cl	mg/l	C34
			43.72
	Chlorine	mg/l	
			0.1
	Chromium as Cr	µg/l	C03
			0
	Cobalt as Co	µg/l	C03
			0
	Copper as Cu	µg/l	C02
			26.37
	Cyanide (recoverable) as CN	µg/l	C36
			0
	EC - Autotitrator @ 25°C	mS/m	C29
			18.72
	Ecoli	MPN/100ML	M01
			<1
	Fluoride as F	mg/l	C35
			0.02
	Heterotrophic plate count @35°C	CFU/1ml	M03
			<1
	Iron (total) as Fe	µg/l	C02
			2.8
	Lead as Pb	µg/l	C02
			0
	Manganese as Mn	µg/l	C02
			2.81
	Nickel as Ni	µg/l	C03
			0
	Nitrite as N	mg/l	C39
			0.01
	pH - Autotitrator @ 25°C	-	C30
			6.39
	Sodium as Na	mg/l	C01
			131.97
	Sulphate as SO4	mg/l	C33
			8.71
	Total Coliform	MPN/100ML	M02
			<1
	Total Solids - dissolved	mg/l	
			93.6
	Turbidity	NTU	C16
			1.18
	Turbidity @ WTW	NTU	
			1.36
	Zinc as Zn	µg/l	C02
			33.53





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

Report Number: 69655

Test List: SANS_241

Scheme: Environmental Health Office

Received Date: 16/09/2015

Sample Number	130186		
Sample Description	Environmental Health Office		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	39.97
Ammonia as N	mg/l	C32	0
Lead as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	41.81
Chlorine	mg/l		0.11
Chromium as Cr	µg/l	C03	0.53
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	8.39
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	19.38
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.02
Heterotrophic plate count @35°C	CFU/1ml	M03	1
Iron (total) as Fe	µg/l	C02	3.56
Lead as Pb	µg/l	C02	0.01
Manganese as Mn	µg/l	C02	16.39
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.06
pH - Autotitrator @ 25°C	-	C30	6.39
Sulphate as SO4	mg/l	C33	8.83
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		96.9
Turbidity	NTU	C16	8.75
Turbidity @ WTW	NTU		10.6
Zinc as Zn	µg/l	C02	47.73



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Extension 7 Clinic
 Received Date: 02/09/2015

Sample Number			130048
Sample Description			Extension 7 Clinic
Sample Received Date			02/09/2015
Sample Commencement Date			02/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	239.2
Aluminium as Al	µg/l	C09	7.19
Arsenic as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	96.36
Chlorine	mg/l		0.06
Chromium as Cr	µg/l	C03	0.02
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	8.5
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	87.28
E.coli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.6
Heterotrophic plate count @35°C	CFU/1ml	M03	73
Iron (total) as Fe	µg/l	C02	5.14
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	0.85
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.01
pH - Autotitrator @ 25°C	-	C30	7.97
Sodium as Na	mg/l	C01	107.37
Sulfate as SO4	mg/l	C33	59.5
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		436.4
Turbidity	NTU	C16	2.08
Turbidity @ WTW	NTU		2.38
Zinc as Zn	µg/l	C02	0.42



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

Report Number: 69655

Test List: SANS_241
 Scheme: Extension 7 Clinic
 Received Date: 16/09/2015

Sample Number			130190
Sample Description			Extension 7 Clinic
Sample Received Date			16/09/2015
Sample Commencement Date			16/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	113.26
Ammonia as N	mg/l	C32	0
Lead as Pb	µg/l	C03	0
Chloride as Cl	mg/l	C34	94
Chlorine	mg/l		0.33
Chromium as Cr	µg/l	C03	0.65
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	2
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	88.07
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.58
Heterotrophic plate count @35°C	CFU/1ml	M03	8
Iron (total) as Fe	µg/l	C02	51.04
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	2.17
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.08
pH - Autotitrator @ 25°C	-	C30	8.27
Sulphate as SO4	mg/l	C33	60.71
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		440.35
Turbidity	NTU	C16	1.97
Turbidity @ WTW	NTU		2.77
Zinc as Zn	µg/l	C02	0





207

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Indoor Sports Centre
 Received Date: 02/09/2015

Sample Number	130047		
Sample Description	Indoor Sports Centre		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Hardness - Autotitrator	mg/l	C28	238.9
Aluminium as Al	µg/l	C09	3.43
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	96.4
Chlorine	mg/l		0.41
Chromium as Cr	µg/l	C03	0
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	4.22
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	87.09
E. coli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.59
Heterotrophic plate count @35°C	CFU/1ml	M03	1
Iron (total) as Fe	µg/l	C02	3.89
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	0.18
Nickel as Ni	µg/l	C03	0.51
Nitrite as N	mg/l	C39	0.01
pH - Autotitrator @ 25°C	-	C30	8.29
Sulphate as SO4	mg/l	C33	59.58
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		435.43
Turbidity	NTU	C16	0.98
Turbidity @ WTW	NTU		1.22
Zinc as Zn	µg/l	C02	0



208



Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Indoor Sports Centre
 Received Date: 16/09/2015

Sample Number	130196		
Sample Description	Indoor Sports Centre		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
Arsenic as As	µg/l	C09	120.71
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	94.22
Chlorine	mg/l		0.89
Chromium as Cr	µg/l	C03	0.88
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	1.45
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	87.51
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C3	0.57
Heterotrophic plate count @35°C	CFU/1ml	M03	5
Iron (total) as Fe	µg/l	C02	54.03
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	0.65
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.07
pH - Autotitrator @ 25°C	-	C30	8.29
Sulphate as SO4	mg/l	C33	61.11
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		437.55
Turbidity	NTU	C16	1.81
Turbidity @ WTW	NTU		2.74
Zinc as Zn	µg/l	C02	0



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

Report Number: 69655

Test List: SANS_241
 Scheme: J / Kleinshans Final WTW
 Received Date: 08/09/2015

Sample Number	130104		
Sample Description	J / Kleinshans Final WTW		
Sample Received Date	08/09/2015		
Sample Commencement Date	08/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Hardness - Autotitrator	mg/l	C28
			238.1
	Ammonia as N	mg/l	C32
			0
	Chloride as Cl	mg/l	C34
			93.56
	Chlorine	mg/l	
			1.63
	Cyanide (recoverable) as CN	µg/l	C36
			0
	EC - Autotitrator @ 25°C	mS/m	C29
			86.21
	E.coli	MPN/100ML	M01
			<1
	Fluoride as F	mg/l	C35
			0.63
	Heterotrophic plate count @35°C	CFU/1ml	M03
			56
	Nitrite as N	mg/l	C39
			0
	pH - Autotitrator @ 25°C	-	C30
			8.39
	Sodium as Na	mg/l	C01
			54.93
	Sulphate as SO4	mg/l	C33
			62.41
	Total coliform	MPN/100ML	M02
			<1
	Total Solids - dissolved	mg/l	
			431.05
	Turbidity	NTU	C16
			1.87
	Turbidity @ WTW	NTU	
			2.59





Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: J / Kleinshans Final WTW
 Received Date: 16/09/2015

Sample Number			130192
Sample Description			J / Kleinshans Final WTW
Sample Received Date			16/09/2015
Sample Commencement Date			16/09/2015
Sample Completed Date			
Comment			
	Test	Units	Method No
	Aminium as Al	µg/l	C09
	Ammonia as N	mg/l	C32
	Lead as Cd	µg/l	C03
	Chloride as Cl	mg/l	C34
	Chlorine	mg/l	0.07
	Chromium as Cr	µg/l	C03
	Cobalt as Co	µg/l	C03
	Copper as Cu	µg/l	C02
	Cyanide (recoverable) as CN	µg/l	C36
	EC - Autotitrator @ 25°C	mS/m	C29
	Ecoli	MPN/100ML	M01
	Fluoride as F	mg/l	C35
	Heterotrophic plate count @35°C	CFU/1ml	M03
	Iron (total) as Fe	µg/l	C02
	Lead as Pb	µg/l	C02
	Manganese as Mn	µg/l	C02
	Nickel as Ni	µg/l	C03
	Nitrite as N	mg/l	C39
	pH - Autotitrator @ 25°C	-	C30
	Sulphate as SO4	mg/l	C33
	Total coliform	MPN/100ML	M02
	Total Solids - dissolved	mg/l	440.02
	Turbidity	NTU	C16
	Turbidity @ WTW	NTU	1.45
	Zinc as Zn	µg/l	C02



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



211

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: J / Kleinshans Final WTW
 Received Date: 22/09/2015

Sample Number	130241		
Sample Description	J / Kleinshans Final WTW		
Sample Received Date	22/09/2015		
Sample Commencement Date	22/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	243.4
Aluminium as Al	µg/l	C09	25.37
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	97.07
Chlorine	mg/l		0.45
Chromium as Cr	µg/l	C03	0.39
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	0.81
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	87.69
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.62
Heterotrophic plate count @35°C	CFU/1ml	M03	63
Iron (total) as Fe	µg/l	C02	5.51
Lead as Pb	µg/l	C02	1.05
Manganese as Mn	µg/l	C02	0
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0
pH - Autotitrator @ 25°C	-	C30	8.18
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		438.43
Turbidity @ WTW	NTU		1.06
Zinc as Zn	µg/l	C02	0



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



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

Report Number: 69655

Test List: SANS_241

Scheme: J / Kleinshans Raw WTW

Received Date: 08/09/2015

Sample Number	130105		
Sample Description	J / Kleinshans Raw WTW		
Sample Received Date	08/09/2015		
Sample Commencement Date	08/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	12.63
Ammonia as N	mg/l	C32	0
Lead as Pb	µg/l	C03	0
Chloride as Cl	mg/l	C34	90.13
Chromium as Cr	µg/l	C03	0.58
Cobalt as Co	µg/l	C03	0.02
Copper as Cu	µg/l	C02	1.33
Cyanide (recoverable) as CN	µg/l	C38	0
E coli waste water (colliert)	MPN/100ML	M01	2
EC @ 25°C	mS/m	C15	84
Fluoride as F	mg/l	C35	0.66
Iron (total) as Fe	µg/l	C02	2.44
Lead as Pb	µg/l	C02	2.97
Manganese as Mn	µg/l	C02	0
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0
PH @ 25°C	-	C14	7.7
Sodium as Na	mg/l	C01	56.17
Sulphate as SO ₄	mg/l	C33	62.75
Total Solids - dissolved	mg/l		420
Turbidity	NTU	C16	26.7
Turbidity @ WTW	NTU		9.99
Zinc as Zn	µg/l	C02	18.16



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

Report Number: 69655

Test List: SANS_241

Scheme: J / Kleinshans Raw WTW

Received Date: 16/09/2015

Sample Number			130193
Sample Description			J / Kleinshans Raw WTW
Sample Received Date			16/09/2015
Sample Commencement Date			16/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Hardness - Autotitrator	mg/l	C28	232.3
Aluminium as Al	µg/l	C09	8.18
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	93.55
Chromium as Cr	µg/l	C03	0.73
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	1
Cyanide (recoverable) as CN	µg/l	C36	0
EC @ 25°C	mS/m	C15	84.8
Fluoride as F	mg/l	C35	0.63
Iron (total) as Fe	µg/l	C02	0
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	0
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.13
PH @ 25°C	-	C14	7.7
Sulphate as SO4	mg/l	C33	62.99
Total Solids - dissolved	mg/l		424
Turbidity	NTU	C16	29.7
Zinc as Zn	µg/l	C02	4.67



214

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: J / Kleinshans Raw WTW
 Received Date: 22/09/2015

Sample Number	130242		
Sample Description	J / Kleinshans Raw WTW		
Sample Received Date	22/09/2015		
Sample Commencement Date	22/09/2015		
Sample Completed Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	249.2
Ammonium as Al	µg/l	C09	14.15
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	94.3
Chromium as Cr	µg/l	C03	0.54
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	0.61
Cyanide (recoverable) as CN	µg/l	C36	0
E coli waste water (colifert)	MPN/100ML	M01	2
EC - Autotitrator @ 25°C	mS/m	C15	85.1
Fluoride as F	mg/l	C35	0.66
Iron (total) as Fe	µg/l	C02	1.01
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	0
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.01
pH - Autotitrator @ 25°C	-	C14	7.7
Total Solids - dissolved	mg/l		425
Turbidity @ WTW	NTU		36.2
Zinc as Zn	µg/l	C02	10.77





215

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: J Street Community Tap
 Received Date: 02/09/2015

Sample Number	130048		
Sample Description	J Street Community Tap		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
Hardness - Autotitrator	mg/l	C28	235.9
Aluminium as Al	µg/l	C09	9.81
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	96.6
Chlorine	mg/l		0.44
Chromium as Cr	µg/l	C03	0.09
Cobalt as Co	µg/l	C03	0.03
Copper as Cu	µg/l	C02	2.22
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	87.13
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.56
Heterotrophic plate count @35°C	CFU/1ml	M03	1
Iron (total) as Fe	µg/l	C02	5.88
Lead as Pb	µg/l	C02	1.01
Manganese as Mn	µg/l	C02	1.32
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.01
pH - Autotitrator @ 25°C	-	C30	8.31
Sulphate as SO4	mg/l	C33	59.45
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		435.66
Turbidity	NTU	C16	2.64
Turbidity @ WTW	NTU		3.35
Zinc as Zn	µg/l	C02	0





216

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: J Street Community Tap
 Received Date: 16/09/2015

Sample Number			130197
Sample Description			J Street Community Tap
Sample Received Date			16/09/2015
Sample Commencement Date			16/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	141.14
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	94.84
Chlorine	mg/l		1.14
Chromium as Cr	µg/l	C03	1.12
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	12.74
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	88.42
E.coli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.58
Heterotrophic plate count @35°C	CFU/1ml	M03	1
Iron (total) as Fe	µg/l	C02	64.56
Lead as Pb	µg/l	C02	0.18
Manganese as Mn	µg/l	C02	0.88
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.08
pH - Autotitrator @ 25°C	-	C30	8.27
Sulphate as SO ₄	mg/l	C33	60.78
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		442.09
Turbidity	NTU	C16	2.73
Turbidity @ WTW	NTU		2.94
Zinc as Zn	µg/l	C02	0.83



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



217

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241

Scheme: Nonzwakazi Community Tap in Alicedale

Received Date: 02/09/2015

Sample Number	130049		
Sample Description	Nonzwakazi Community Tap in		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Hardness - Autotitrator	mg/l	C28
			68.21
	Ammonia as N	mg/l	C32
			0
	Chloride as Cl	mg/l	C34
			147.68
	Chlorine	mg/l	
			0.07
	Cyanide (recoverable) as CN	µg/l	C36
			0
	EC - Autotitrator @ 25°C	mS/m	C29
			68.63
	Ecoli	MPN/100ML	M01
			<1
	Fluoride as F	mg/l	C35
			0.1
	Heterotrophic plate count @35°C	CFU/1ml	M03
			<1
	Nitrite as N	mg/l	C39
			0
	pH - Autotitrator @ 25°C	-	C30
			7.77
	Sodium as Na	mg/l	C01
			36.39
	Sulphate as SO4	mg/l	C33
			19.86
	Total coliform	MPN/100ML	M02
			<1
	Total Solids - dissolved	mg/l	
			343.14
	Turbidity	NTU	C16
			2.83
	Turbidity @ WTW	NTU	
			3.36



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



218

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241

Scheme: Riebeeck East Network Reservoir

Received Date: 02/09/2015

Sample Number	130050		
Sample Description	Riebeeck East Network Reservoir		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Alkalinity - Autotitrator	mg/l	C28
			68.32
	Aluminium as Al	µg/l	C09
			0
	Ammonia as N	mg/l	C32
			0
	Cadmium as Cd	µg/l	C03
			0
	Chloride as Cl	mg/l	C34
			122.85
	Chlorine	mg/l	
			2.2
	Chromium as Cr	µg/l	C03
			0
	Cobalt as Co	µg/l	C03
			0
	Copper as Cu	µg/l	C02
			0
	Cyanide (recoverable) as CN	µg/l	C36
			0
	EC - Autotitrator @ 25°C	mS/m	C29
			58.03
	E.coli	MPN/100ML	M01
			<1
	Fluoride as F	mg/l	C35
			0.23
	Heterotrophic plate count @35°C	CFU/1ml	M03
			1
	Iron (total) as Fe	µg/l	C02
			6.34
	Lead as Pb	µg/l	C02
			0
	Manganese as Mn	µg/l	C02
			0
	Nickel as Ni	µg/l	C03
			0.88
	Nitrite as N	mg/l	C39
			0
	pH - Autotitrator @ 25°C	-	C30
			6.86
	Sodium as Na	mg/l	C01
			33.53
	Sulfate as SO4	mg/l	C33
			16.21
	Total Coliform	MPN/100ML	M02
			<1
	Total Solids - dissolved	mg/l	
			290.14
	Turbidity	NTU	C16
			2.85
	Turbidity @ WTW	NTU	
			3.55
	Zinc as Zn	µg/l	C02
			68.03



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



219

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241

Scheme: Riebeeck East Network Reservoir

Received Date: 16/09/2015

Sample Number			130199
Sample Description			Riebeeck East Network Reservoir
Sample Received Date			16/09/2015
Sample Commencement Date			16/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	6.93
Ammonia as N	mg/l	C32	0
Lead as Pb	µg/l	C03	0
Chloride as Cl	mg/l	C34	118.04
Chlorine	mg/l		1.11
Chromium as Cr	µg/l	C03	0
Cobalt as Co	µg/l	C03	0.32
Copper as Cu	µg/l	C02	0
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	56.3
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.19
Heterotrophic plate count @35°C	CFU/1ml	M03	<1
Iron (total) as Fe	µg/l	C02	0
Lead as Pb	µg/l	C02	0.16
Manganese as Mn	µg/l	C02	0
Nickel as Ni	µg/l	C03	1.58
Nitrite as N	mg/l	C39	0.04
pH - Autotitrator @ 25°C	-	C30	6.83
Sulphate as SO4	mg/l	C33	17.08
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		281.5
Turbidity	NTU	C16	2.09
Turbidity @ WTW	NTU		2.46
Zinc as Zn	µg/l	C02	96.13



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



220

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Waainek WTW Final
 Received Date: 02/09/2015

Sample Number			130056
Sample Description			Waainek WTW Final
Sample Received Date			02/09/2015
Sample Commencement Date			02/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	6.9
Ammonia as N	mg/l	C32	0
Chloride as Cl	mg/l	C34	43.05
Chlorine	mg/l		0.57
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	18.79
E.coli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0
Heterotrophic plate count @35°C	CFU/1ml	M03	<1
Nitrite as N	mg/l	C39	0.01
pH - Autotitrator @ 25°C	-	C30	6.48
Sulphate as SO4	mg/l	C33	9.37
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		94
Turbidity	NTU	C16	1.91
Turbidity @ WTW	NTU		2.29



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



221

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Waainek WTW Final
 Received Date: 16/09/2015

Sample Number			130194
Sample Description			Waainek WTW Final
Sample Received Date			16/09/2015
Sample Commencement Date			16/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Aluminium as Al	µg/l	C09	100.31
Ammonia as N	mg/l	C32	0
Antimony as Sb	µg/l	C03	0
Chloride as Cl	mg/l	C34	42.6
Chlorine	mg/l		0.19
Chromium as Cr	µg/l	C03	0.38
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	0
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	22.88
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0
Heterotrophic plate count @35°C	CFU/1ml	M03	1
Iron (total) as Fe	µg/l	C02	33.91
Lead as Pb	µg/l	C02	0.1
Manganese as Mn	µg/l	C02	6.8
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.06
pH - Autotitrator @ 25°C	-	C30	7.36
Sulphate as SO4	mg/l	C33	9.1
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		114.3
Turbidity	NTU	C16	0.72
Turbidity @ WTW	NTU		0.93
Zinc as Zn	µg/l	C02	0.29





222

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69655

Test List: SANS_241
 Scheme: Waainek WTW Final
 Received Date: 22/09/2015

Sample Number			130243
Sample Description			Waainek WTW Final
Sample Received Date			22/09/2015
Sample Commencement Date			22/09/2015
Sample Completed Date			
Comment			
Test	Units	Method No	
Alkalinity - Autotitrator	mg/l	C28	4.86
Aluminium as Al	µg/l	C09	151.05
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	45.38
Chlorine	mg/l		2.3
Chromium as Cr	µg/l	C03	0.26
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	0
Cyanide (recoverable) as CN	µg/l	C36	0
EC - Autotitrator @ 25°C	mS/m	C29	19.68
Ecoli	MPN/100ML	M01	<1
Fluoride as F	mg/l	C35	0.02
Heterotrophic plate count @35°C	CFU/1ml	M03	<1
Iron (total) as Fe	µg/l	C02	55.33
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	7.81
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0
pH - Autotitrator @ 25°C	-	C30	6.27
Sulphate as SO4	mg/l	C33	15.68
Total coliform	MPN/100ML	M02	<1
Total Solids - dissolved	mg/l		98.4
Turbidity @ WTW	NTU		1.32
Zinc as Zn	µg/l	C02	1.37



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



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

223

Report Number: 69655

Test List: SANS_241
 Scheme: Waainek WTW Raw
 Received Date: 02/09/2015

Sample Number	130057		
Sample Description	Waainek WTW Raw		
Sample Received Date	02/09/2015		
Sample Commencement Date	02/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
	Alkalinity - Autotitrator	mg/l	C28
	Ammonia as N	mg/l	C32
	Cadmium as Cd	µg/l	C03
	Chloride as Cl	mg/l	C34
	Chromium as Cr	µg/l	C03
	Cobalt as Co	µg/l	C03
	Copper as Cu	µg/l	C02
	Cyanide (recoverable) as CN	µg/l	C36
	E coli waste water(collert)	MPN/100ML	M01
	EC @ 25°C	mS/m	C15
	Fluoride as F	mg/l	C35
	Lead as Pb	µg/l	C02
	Manganese as Mn	µg/l	C02
	Nickel as Ni	µg/l	C03
	Nitrite as N	mg/l	C39
	PH @ 25°C	-	C14
	Sodium as Na	mg/l	C01
	Sulphate as SO4	mg/l	C33
	Total Solids - dissolved	mg/l	
	Turbidity	NTU	C16
	Turbidity @ WTW	NTU	
	Zinc as Zn	µg/l	C02



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



224

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

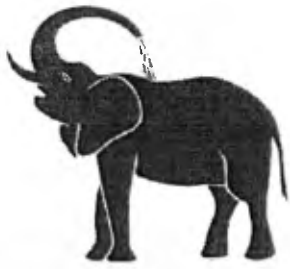
Report Number: 69655

Test List: SANS_241
 Scheme: Waainek WTW Raw
 Received Date: 16/09/2015

Sample Number	130195		
Sample Description	Waainek WTW Raw		
Sample Received Date	16/09/2015		
Sample Commencement Date	16/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	17.37
Ammonia as N	mg/l	C32	0
Asbestos as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	39.92
Chromium as Cr	µg/l	C03	2.75
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	0.07
Cyanide (recoverable) as CN	µg/l	C36	0
E coli waste water(collert)	MPN/100ML	M01	9
EC @ 25°C	mS/m	C15	18.03
Fluoride as F	mg/l	C35	0.02
Lead as Pb	µg/l	C02	1.66
Manganese as Mn	µg/l	C02	3.57
Nickel as Ni	µg/l	C03	0
Nitrite as N	mg/l	C39	0.14
PH @ 25°C	-	C14	8.02
Sulphate as SO4	mg/l	C33	11.28
Total Solids - dissolved	mg/l		90.1
Turbidity	NTU	C16	26.8
Turbidity @ WTW	NTU		25.2
Zinc as Zn	µg/l	C02	83.7



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



225

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

Report Number: 69655

Test List: SANS_241
 Scheme: Waainek WTW Raw
 Received Date: 22/09/2015

Sample Number	130244		
Sample Description	Waainek WTW Raw		
Sample Received Date	22/09/2015		
Sample Commencement Date	22/09/2015		
Sample Completed Date			
Comment			
	Test	Units	Method No
Alkalinity - Autotitrator	mg/l	C28	11.29
Ammonia as N	mg/l	C32	0
Cadmium as Cd	µg/l	C03	0
Chloride as Cl	mg/l	C34	41.53
Chromium as Cr	µg/l	C03	1.93
Cobalt as Co	µg/l	C03	0
Copper as Cu	µg/l	C02	4.23
Cyanide (recoverable) as CN	µg/l	C36	0
E coli waste water (colilert)	MPN/100ML	M01	6
EC - Autotitrator @ 25°C	mS/m	C15	18.32
Fluoride as F	mg/l	C35	0.1
Lead as Pb	µg/l	C02	0
Manganese as Mn	µg/l	C02	69.81
Nickel as Ni	µg/l	C03	0.6
Nitrite as N	mg/l	C39	0
pH - Autotitrator @ 25°C	-	C14	7.1
Sulphate as SO4	mg/l	C33	18.01
Total Solids - dissolved	mg/l		91.6
Zinc as Zn	µg/l	C02	40.39



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