

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela WTW Raw
Lab Number	S28433

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	22.80	
Colour	Spectroquant Pharo	Pt-Co-true	73.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	6.04	
Fluoride	Merck Test Kit	mg/L	-	<0.01
Free chlorine	**Mpumamanzi Lab	mg/L	-	not done
Iron	ICP-AES (dissolved - value)	µg/L	23.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	-	<0.5
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.06	
Residual chlorine	Merck Test Kit	mg/L	0.63	
Total Dissolved Solids	NSA	mg/L	26.00	
Turbidity	HACH Turbidity Meter	NTU	15.00	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	Not Done
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	-	Not Done
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	Not Done

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela WTW Final
Lab Number	S28434

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	55.40	
Colour	Spectroquant Pharo	Pt-Co-true	51.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	16.10	
Fluoride	Merck Test Kit	mg/L	0.19	
Free chlorine	**Mpumamanzi Lab	mg/L	-	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	-	<0.5
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.74	
Residual chlorine	Merck Test Kit	mg/L	0.12	
Total Dissolved Solids	NSA	mg/L	66.00	
Turbidity	HACH Turbidity Meter	NTU	0.24	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	5.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Receival at Lab	8/11/2012		

Sample Description	Bela Bela BH
Lab Number	S28435

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	189.00	
Colour	Spectroquant Pharo	Pt-Co-true	47.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	48.20	
Fluoride	Merck Test Kit	mg/L	1.28	
Free chlorine	**Mpumamanzi Lab	mg/L	-	no chlorin
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	2.90	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.67	
Residual chlorine	Merck Test Kit	mg/L	0.12	
Total Dissolved Solids	NSA	mg/L	198.00	
Turbidity	HACH Turbidity Meter	NTU	0.25	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	7.00	
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	108.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	131.00	

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Receival at Lab	8/11/2012		

Sample Description	Bela Bela Town Clinic
Lab Number	S28436

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	77.00	
Colour	Spectroquant Pharo	Pt-Co-true	55.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	22.80	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	-	<0.1
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	0.90	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.86	
Residual chlorine	Merck Test Kit	mg/L	0.14	
Total Dissolved Solids	NSA	mg/L	93.00	
Turbidity	HACH Turbidity Meter	NTU	0.81	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	3.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Township Clinic
Lab Number	S28437

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	70.40	
Colour	Spectroquant Pharo	Pt-Co-true	52.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	22.40	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	0.10	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	0.90	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.88	
Residual chlorine	Merck Test Kit	mg/L	0.15	
Total Dissolved Solids	NSA	mg/L	93.00	
Turbidity	HACH Turbidity Meter	NTU	0.59	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	2.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Jinah Park
Lab Number	S28438

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	71.40	
Colour	Spectroquant Pharo	Pt-Co-true	60.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	22.90	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	0.10	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	1.20	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.70	
Residual chlorine	Merck Test Kit	mg/L	0.18	
Total Dissolved Solids	NSA	mg/L	98.00	
Turbidity	HACH Turbidity Meter	NTU	0.71	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	-	No Growth
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Radium Clinic
Lab Number	S28439

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	283.00	
Colour	Spectroquant Pharo	Pt-Co-true	51.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	95.80	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	0.30	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	29.40	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.28	
Residual chlorine	Merck Test Kit	mg/L	0.06	
Total Dissolved Solids	NSA	mg/L	794.00	
Turbidity	HACH Turbidity Meter	NTU	0.20	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	6.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Receival at Lab	8/11/2012		

Sample Description	Bela Bela Radium Reservoir
Lab Number	S28440

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	291.00	
Colour	Spectroquant Pharo	Pt-Co-true	51.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	94.70	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	1.00	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	26.30	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.28	
Residual chlorine	Merck Test Kit	mg/L	0.20	
Total Dissolved Solids	NSA	mg/L	804.00	
Turbidity	HACH Turbidity Meter	NTU	0.07	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	2.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Pienaar Clinic
Lab Number	S28441

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	125.00	
Colour	Spectroquant Pharo	Pt-Co-true	50.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	41.70	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	1.50	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	2.50	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.73	
Residual chlorine	Merck Test Kit	mg/L	0.35	
Total Dissolved Solids	NSA	mg/L	173.00	
Turbidity	HACH Turbidity Meter	NTU	1.60	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	9.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	-	No Growth

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela House 1316
Lab Number	S28442

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	124.00	
Colour	Spectroquant Pharo	Pt-Co-true	54.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	41.00	
Fluoride	Merck Test Kit	mg/L	-	<0.10
Free chlorine	**Mpumamanzi Lab	mg/L	0.10	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	2.50	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.78	
Residual chlorine	Merck Test Kit	mg/L	0.11	
Total Dissolved Solids	NSA	mg/L	174.00	
Turbidity	HACH Turbidity Meter	NTU	1.08	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	16.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	1.00	

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Rapotokwana BH
Lab Number	S28443

Parameters	Method	Unit	Results	
Chemical Parameters				
Alkalinity - Total	*M7 - Total Alkalinity	mg/L as CaCO ₃	258.00	
Colour	Spectroquant Pharo	Pt-Co-true	47.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	59.60	
Fluoride	Merck Test Kit	mg/L	3.00	
Free chlorine	**Mpumamanzi Lab	mg/L	-	
Iron	ICP-AES (dissolved - value)	µg/L	16.00	
Manganese	ICP-AES (dissolved - value)	µg/L	-	<10
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	5.10	
Odour	NSA		-	No Odour
pH	*M6 - pH at 25°C	pH units	7.73	
Residual chlorine	Merck Test Kit	mg/L	-	<0.05
Total Dissolved Solids	NSA	mg/L	434.00	
Turbidity	HACH Turbidity Meter	NTU	0.14	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	No Growth
Heterotrophic Plate Count	**Mpumamanzi Lab	cfu's/1ml	132.00	
Total Coliforms	**Mpumamanzi Lab	cfu's/100ml	921.00	

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela WWTW Raw Sewage
Lab Number	S28444

Parameters	Method	Unit	Results	
Chemical Parameters				
Ammonium (NH ₄)	*M1 - Ammonia	mg/L	44.60	
COD - Unfiltered	*M2 - COD	mg/L	617.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	81.30	
Free chlorine	**Mpumamanzi Lab	mg/L	-	not done
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	0.70	
Orthophosphate (PO ₄)	Merck Test Kit	mg/L	19.00	
pH	*M6 - pH at 25°C	pH units	6.80	
Residual chlorine	Merck Test Kit	mg/L	1.54	
Total Suspended Solids	*M8 - Suspended Solids	mg/L	272.00	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	Not Done

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Receival at Lab	8/11/2012		

Sample Description	Bela Bela WWTW Final Sewage
Lab Number	S28445

Parameters	Method	Unit	Results	
Chemical Parameters				
Ammonium (NH ₄)	*M1 - Ammonia	mg/L	18.60	
COD - Unfiltered	*M2 - COD	mg/L	39.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	67.90	
Free chlorine	**Mpumamanzi Lab	mg/L	-	not done
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	24.00	
Orthophosphate (PO ₄)	Merck Test Kit	mg/L	19.60	
pH	*M6 - pH at 25°C	pH units	7.11	
Residual chlorine	Merck Test Kit	mg/L	0.13	
Total Suspended Solids	*M8 - Suspended Solids	mg/L	4.00	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	2 420.00	

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Radium Raw Sewage
Lab Number	S28446

Parameters	Method	Unit	Results	
Chemical Parameters				
Ammonium (NH ₄)	*M1 - Ammonia	mg/L	49.80	
COD - Unfiltered	*M2 - COD	mg/L	792.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	148.00	
Free chlorine	**Mpumamanzi Lab	mg/L	-	not done
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	0.70	
Orthophosphate (PO ₄)	Merck Test Kit	mg/L	22.50	
pH	*M6 - pH at 25°C	pH units	6.85	
Residual chlorine	Merck Test Kit	mg/L	2.72	
Total Suspended Solids	*M8 - Suspended Solids	mg/L	560.00	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	Not Done

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Sample Description	Bela Bela Radium Final Sewage
Lab Number	S28447

Parameters	Method	Unit	Results	
Chemical Parameters				
Ammonium (NH ₄)	*M1 - Ammonia	mg/L	27.20	
COD - Unfiltered	*M2 - COD	mg/L	158.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	129.00	
Free chlorine	**Mpumamanzi Lab	mg/L	-	not done
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	0.80	
Orthophosphate (PO ₄)	Merck Test Kit	mg/L	12.80	
pH	*M6 - pH at 25°C	pH units	7.70	
Residual chlorine	Merck Test Kit	mg/L	1.27	
Total Suspended Solids	*M8 - Suspended Solids	mg/L	62.00	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	2 420.00	

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Receival at Lab	8/11/2012		

Sample Description	Bela Bela Pienaar Raw Sewage
Lab Number	S28448

Parameters	Method	Unit	Results	
Chemical Parameters				
Ammonium (NH ₄)	*M1 - Ammonia	mg/L	25.90	
COD - Unfiltered	*M2 - COD	mg/L	433.00	
Conductivity	*M4 - Electrical Conductivity	mS/m	79.50	
Free chlorine	**Mpumamanzi Lab	mg/L	-	not done
Nitrate (NO ₃)	*M5 - Nitrate	mg/L	0.50	
Orthophosphate (PO ₄)	Merck Test Kit	mg/L	13.00	
pH	*M6 - pH at 25°C	pH units	7.02	
Residual chlorine	Merck Test Kit	mg/L	1.26	
Total Suspended Solids	*M8 - Suspended Solids	mg/L	206.00	
Microbiological Parameters				
E. Coli	**Mpumamanzi Lab	cfu's/100ml	-	Not Done

Integral Laboratories (Pty) Ltd, Berlyn Centre, c/o Berlyn & Optenhorst Str, Paarl, 7646

Tel: 021 871 1109

Fax: 086 635 8874

CERTIFICATE OF ANALYSIS

Company	Bela Bela Municipality	Service Request Number	SR13391
Customer Address	Private Bag X 1609, Bela Bela, Limpopo, Bela Bela, Limpopo, South Africa, 0480	Date of Certificate:	23/11/2012
Contact Person	Archie Magana		
Date of Sampling	7/11/2012		
Date of Reveal at Lab	8/11/2012		

Authorised By: _____ **(Signature/s authorised signatories)**

All results have been reviewed and authorised by a technical signatory

1. Sampling is outside the laboratory scope of accreditation Chlorine results are supplied by the sampler
2. This report shall not be reproduced except in full, without written approval from the laboratory
3. Results reflected on this report relate only to the items as received and analysed
4. Uncertainty of measurement for accredited analyses will be provided on request
5. Reports can be emailed These will be unsigned and the laboratory will not be responsible for changes to emailed reports
6. Parameters indicated by an * are accredited

Certificate Number: SR13391

Amended: Y/N