

NKANGALA DISTRICT MUNICIPALITY
EMAKHAZENI LOCAL MUNICIPALITY
Certificate of Waste Water and Effluent Analysis - Sewage Purification Works

Our Ref: NDM / 49 - 63 / A / 11/17			
FINAL			
Lab No:		A 49	
ANALYSIS RESULTS mg/l		TEST METHOD	<i>Belfast Sewer Final</i>
		<i>BF9/11/17</i>	
DATE RECEIVED :		06 Nov 17	
DATE REPORTED :		15 Nov 17	
Total Dissolved Solids	LPM 2	522	General Standards Gazette No: 36820
Suspended Solids	LPM 1	38,0	
Settleable Solids ml/l	LPM 3	<0.20	
Conductivity mS/m	LPM 51/82	99,8	
4 Hours Oxygen Absorbed	LPM 25	19,3	Intake + 70-150
Chemical Oxygen Demand	LPM 6	132	< 75
Free and Saline Ammonia as N	LPM 29/76	33,3	< 6
Nitrate - NO₃ as N	LPM 32/76	7,28	< 15
Nitrite - NO₂ as N	LPM 32/76	2,82	
Ortho - Phosphate PO₄ as P	LPM 33/76	5,35	< 10
Chlorides as Cl	LPM 30/76	128	
Total Alkalinity as CaCO₃	LPM 11/81	229	
pH - Value	LPM 51/81	7,76	5.5 - 9.5
Sodium as Na	LPM 15	106	
Potassium as K	LPM 15	20,7	
Sulphate as SO₄	LPM 28/76	62,9	
Residual Chlorine as Cl₂ *	LPM 84	<0.1	0,25
Faecal Coliform / 100ml	LPM 59	Nil	1000/100ml

Tests marked with an asterisk * are not SANAS accredited.

These results are related only to the items tested.

These results must be read in conjunction with the Uncertainty of Measurement list provided by Regen Waters

VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE (GAZETTE 20526) GENERAL LIMITS AS SPECIFIED



P.L.G. UYS (M.D.)
Technical Signatory

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Our Ref: NDM / 49 - 63 / A / 11/17			
FINAL			
Lab No:		A 57	
ANALYSIS RESULTS mg/l	TEST METHOD	<i>Dullstroom Sewer Final</i>	General Standards Gazette No: 36820
		<i>DS9/11/17</i>	
DATE RECEIVED :		06 Nov 17	
DATE REPORTED :		15 Nov 17	
Total Dissolved Solids	LPM 2	224	
Suspended Solids	LPM 1	66,4	25
Settleable Solids ml/l	LPM 3	0,3	
Conductivity mS/m	LPM 51/82	50,4	Intake + 70-150
4 Hours Oxygen Absorbed	LPM 25	18,1	
Chemical Oxygen Demand	LPM 6	120	< 75
Free and Saline Ammonia as N	LPM 29/76	22,2	< 6
Nitrate - NO₃ as N	LPM 32/76	0,15	< 15
Nitrite - NO₂ as N	LPM 32/76	<0.1	
Ortho - Phosphate PO₄ as P	LPM 33/76	4,10	< 10
Chlorides as Cl	LPM 30/76	39,9	
Total Alkalinity as CaCO₃	LPM 11/81	181	
pH - Value	LPM 51/81	7,39	5.5 - 9.5
Sodium as Na	LPM 15	44,9	
Potassium as K	LPM 15	12,0	
Sulphate as SO₄	LPM 28/76	8,32	
Residual Chlorine as Cl₂ *	LPM 84	<0.1	0,25
Faecal Coliform / 100ml	LPM 59	>1000	1000/100ml

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Our Ref: NDM / 49 - 63 / A / 11/17			
FINAL			
Lab No:		A 60	
ANALYSIS RESULTS mg/l	TEST METHOD	<i>Sewer Works Outlet Final</i>	General Standards Gazette No: 36820
		<i>MH 13/11/17</i>	
DATE RECEIVED :		06 Nov 17	
DATE REPORTED :		15 Nov 17	
Total Dissolved Solids	LPM 2	338	
Suspended Solids	LPM 1	23,2	25
Settleable Solids ml/l	LPM 3	0,4	
Conductivity mS/m	LPM 51/82	65,5	Intake + 70-150
4 Hours Oxygen Absorbed	LPM 25	8,5	
Chemical Oxygen Demand	LPM 6	88	< 75
Free and Saline Ammonia as N	LPM 29/76	21,8	< 6
Nitrate - NO₃ as N	LPM 32/76	0,24	< 15
Nitrite - NO₂ as N	LPM 32/76	<0.1	
Ortho - Phosphate PO₄ as P	LPM 33/76	3,51	< 10
Chlorides as Cl	LPM 30/76	49,2	
Total Alkalinity as CaCO₃	LPM 11/81	230	
pH - Value	LPM 51/81	7,62	5.5 - 9.5
Sodium as Na	LPM 15	56,4	
Potassium as K	LPM 15	10,6	
Sulphate as SO₄	LPM 28/76	44,8	
Residual Chlorine as Cl₂ *	LPM 84	<0.1	0,25
Faecal Coliform / 100ml	LPM 59	>1000	1000/100ml

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Our Ref: NDM / 49 - 63 / A / 11/17			
FINAL			
Lab No:		A 63	
ANALYSIS RESULTS mg/l	TEST METHOD	<i>Sewer Works Outlet Final</i>	General Standards Gazette No: 36820
		<i>WB 9/11/17</i>	
DATE RECEIVED :		06 Nov 17	
DATE REPORTED :		15 Nov 17	
<i>Total Dissolved Solids</i>	LPM 2	212	
<i>Suspended Solids</i>	LPM 1	10,0	25
<i>Settleable Solids ml/l</i>	LPM 3	0,6	
<i>Conductivity mS/m</i>	LPM 51/82	33,7	Intake + 70-150
<i>4 Hours Oxygen Absorbed</i>	LPM 25	1,9	
<i>Chemical Oxygen Demand</i>	LPM 6	16	< 75
<i>Free and Saline Ammonia as N</i>	LPM 29/76	0,55	< 6
<i>Nitrate - NO₃ as N</i>	LPM 32/76	4,67	< 15
<i>Nitrite - NO₂ as N</i>	LPM 32/76	0,10	
<i>Ortho - Phosphate PO₄ as P</i>	LPM 33/76	0,20	< 10
<i>Chlorides as Cl</i>	LPM 30/76	29,6	
<i>Total Alkalinity as CaCO₃</i>	LPM 11/81	83	
<i>pH - Value</i>	LPM 51/81	7,69	5.5 - 9.5
<i>Sodium as Na</i>	LPM 15	31,2	
<i>Potassium as K</i>	LPM 15	5,00	
<i>Sulphate as SO₄</i>	LPM 28/76	36,2	
<i>Residual Chlorine as Cl₂ *</i>	LPM 84	<0.1	0,25
<i>Faecal Coliform / 100ml</i>	LPM 59	>1000	1000/100ml

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