

EMAKHAZENI LOCAL MUNICIPALITY

P.O. Box 17
 BELFAST
 1100

CERTIFICATE OF CHEMICAL ANALYSIS

Attention: **MARIANNE JOUBERT**

Date received : 16 November 2018

Date reported : 26 November 2018

Quantity Analyzed : 14

Our Ref : ELM / 706 - 719 / B / 11 / 18

Lab No:

B 706

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EDS2/11/18
		Standard Limits	Dullstroom Waterworks Inlet
Total Dissolved Solids	LPM 2	≤ 1 200	42
Suspended Solids	LPM 1		<0.4
Nitrate & Nitrite as N	LPM 32/76		<0.1
Nitrate NO ₃ as N	LPM 32/76	≤ 11	<0.1
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	6,29
Total Alkalinity as CaCO ₃	LPM 11/81		30
Fluoride as F	LPM 27/76	≤ 1.5	<0.20
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	3,63
Total Hardness as CaCO ₃	LPM 85		22
Calcium Hardness as CaCO ₃	LPM 85		12
Magnesium Hardness as CaCO ₃	LPM 85		11
Calcium as Ca	LPM 15		4,66
Magnesium as Mg	LPM 15		2,62
Sodium as Na	LPM 15	≤ 200	6,39
Potassium as K	LPM 15		1,36
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,27
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	<0.01
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	10,9
pH-Value at 25 ° C	LPM 51/82	≥ 5.0 to ≤ 9.7	7,78
pHs by 21° Celsius	LPM 85		9,14
Langelier Saturation Index	LPM 85		-1.36
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	1,92
Free Residual Chlorine Cl ₂ *	LPM 84		-
Aluminium as Al	LPM 15	≤ 0.30	0,05

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

All heavy metal analyses have been performed on filtered samples.

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These results are related only to the items tested

VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	0,78
Anion Balance	0,85
% Difference	-4,7
Measured TDS	42
Calculated TDS	44
Limits > 1.0 - <1.2	1,0
Calcul TDS / E.C. (0.55 - 0.70)	0,4

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CK. 89/14418/23

REGEN WATERS
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Technical Signatory

(A signed copy of this report is available)

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Lab No:

B 707

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EDS4/11/18
		Standard Limits	Dullstroom Waterworks Final Treated
Total Dissolved Solids	LPM 2	≤ 1 200	56
Suspended Solids	LPM 1		<0.4
Nitrate & Nitrite as N	LPM 32/76		<0.1
Nitrate NO ₃ as N	LPM 32/76	≤ 11	<0.1
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	13,2
Total Alkalinity as CaCO ₃	LPM 11/81		29
Fluoride as F	LPM 27/76	≤ 1.5	<0.20
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	3,91
Total Hardness as CaCO ₃	LPM 85		33
Calcium Hardness as CaCO ₃	LPM 85		18
Magnesium Hardness as CaCO ₃	LPM 85		15
Calcium as Ca	LPM 15		7,14
Magnesium as Mg	LPM 15		3,62
Sodium as Na	LPM 15	≤ 200	6,33
Potassium as K	LPM 15		1,41
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,03
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	<0.01
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	10,1
pH-Value at 25 ° C	LPM 51/82	≥ 5.0 to ≤ 9.7	7,39
pHs by 21° Celsius	LPM 85		8,96
Langelier Saturation Index	LPM 85		-1.57
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	1,40
Free Residual Chlorine Cl ₂ *	LPM 84		>1.0
Aluminium as Al	LPM 15	≤ 0.30	0,16

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VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	0,98
Anion Balance	1,03
% Difference	-2,4
Measured TDS	56
Calculated TDS	53
Limits > 1.0 - <1.2	1,0
Calcul TDS / E.C. (0.55 - 0.70)	0,5

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Lab No:

B 709

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EBF2/11/18
		Standard Limits	Belfast Waterworks Inlet
Total Dissolved Solids	LPM 2	≤ 1 200	204
Suspended Solids	LPM 1		1,60
Nitrate & Nitrite as N	LPM 32/76		0,16
Nitrate NO ₃ as N	LPM 32/76	≤ 11	0,16
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	52,2
Total Alkalinity as CaCO ₃	LPM 11/81		80
Fluoride as F	LPM 27/76	≤ 1.5	0,21
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	27,2
Total Hardness as CaCO ₃	LPM 85		83
Calcium Hardness as CaCO ₃	LPM 85		36
Magnesium Hardness as CaCO ₃	LPM 85		47
Calcium as Ca	LPM 15		14,4
Magnesium as Mg	LPM 15		11,4
Sodium as Na	LPM 15	≤ 200	35,9
Potassium as K	LPM 15		5,53
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,01
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	<0.01
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	34,9
pH-Value at 25° C	LPM 51/82	≥ 5.0 to ≤ 9.7	7,90
pHs by 21° Celsius	LPM 85		8,29
Langelier Saturation Index	LPM 85		-0.39
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	2,79
Free Residual Chlorine Cl ₂ *	LPM 84		-
Aluminium as Al	LPM 15	≤ 0.30	0,02

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VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	3,36
Anion Balance	3,66
% Difference	-4,2
Measured TDS	204
Calculated TDS	196
Limits > 1.0 - <1.2	1,0
Calcul TDS / E.C. (0.55 - 0.70)	0,6

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Lab No:

B 710

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EBF4/11/18
		Standard Limits	Belfast Waterworks Final Treated
Total Dissolved Solids	LPM 2	≤ 1 200	206
Suspended Solids	LPM 1		<0.4
Nitrate & Nitrite as N	LPM 32/76		0,11
Nitrate NO ₃ as N	LPM 32/76	≤ 11	0,11
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	57,3
Total Alkalinity as CaCO ₃	LPM 11/81		74
Fluoride as F	LPM 27/76	≤ 1.5	0,22
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	26,0
Total Hardness as CaCO ₃	LPM 85		84
Calcium Hardness as CaCO ₃	LPM 85		37
Magnesium Hardness as CaCO ₃	LPM 85		47
Calcium as Ca	LPM 15		14,9
Magnesium as Mg	LPM 15		11,4
Sodium as Na	LPM 15	≤ 200	36,1
Potassium as K	LPM 15		5,56
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,03
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	0,05
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	35,7
pH-Value at 25 ° C	LPM 51/82	≥ 5.0 to ≤ 9.7	7,92
pHs by 21° Celsius	LPM 85		8,31
Langelier Saturation Index	LPM 85		-0.39
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	1,84
Free Residual Chlorine Cl ₂ *	LPM 84		0,80
Aluminium as Al	LPM 15	≤ 0.30	0,21

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VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	3,42
Anion Balance	3,66
% Difference	-3,3
Measured TDS	206
Calculated TDS	197
Limits > 1.0 - <1.2	1,0
Calcul TDS / E.C. (0.55 - 0.70)	0,6

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Lab No:

B 712

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EWB2/11/18
		Standard Limits	Waterval Boven Waterworks Inlet
Total Dissolved Solids	LPM 2	≤ 1 200	118
Suspended Solids	LPM 1		5,60
Nitrate & Nitrite as N	LPM 32/76		0,43
Nitrate NO ₃ as N	LPM 32/76	≤ 11	0,43
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	9,98
Total Alkalinity as CaCO ₃	LPM 11/81		94
Fluoride as F	LPM 27/76	≤ 1.5	<0.20
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	7,77
Total Hardness as CaCO ₃	LPM 85		84
Calcium Hardness as CaCO ₃	LPM 85		35
Magnesium Hardness as CaCO ₃	LPM 85		49
Calcium as Ca	LPM 15		13,9
Magnesium as Mg	LPM 15		12,0
Sodium as Na	LPM 15	≤ 200	11,3
Potassium as K	LPM 15		1,06
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,05
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	<0.01
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	19,9
pH-Value at 25 ° C	LPM 51/82	≥ 5.0 to ≤ 9.7	7,86
pHs by 21° Celsius	LPM 85		8,23
Langelier Saturation Index	LPM 85		-0.37
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	4,93
Free Residual Chlorine Cl ₂ *	LPM 84		-
Aluminium as Al	LPM 15	≤ 0.30	0,02

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VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	2,20
Anion Balance	2,35
% Difference	-3,3
Measured TDS	118
Calculated TDS	115
Limits > 1.0 - <1.2	1,0
Calcul TDS / E.C. (0.55 - 0.70)	0,6

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Lab No:

B 713

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EWB4/11/18
		Standard Limits	Waterval Boven Waterworks Final
Total Dissolved Solids	LPM 2	≤ 1 200	122
Suspended Solids	LPM 1		4,0
Nitrate & Nitrite as N	LPM 32/76		0,24
Nitrate NO ₃ as N	LPM 32/76	≤ 11	0,24
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	11,6
Total Alkalinity as CaCO ₃	LPM 11/81		97
Fluoride as F	LPM 27/76	≤ 1.5	0,20
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	7,83
Total Hardness as CaCO ₃	LPM 85		89
Calcium Hardness as CaCO ₃	LPM 85		45
Magnesium Hardness as CaCO ₃	LPM 85		44
Calcium as Ca	LPM 15		18,0
Magnesium as Mg	LPM 15		10,8
Sodium as Na	LPM 15	≤ 200	10,6
Potassium as K	LPM 15		1,03
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,01
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	<0.01
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	21,3
pH-Value at 25° C	LPM 51/82	≥ 5.0 to ≤ 9.7	9,12
pHs by 21° Celsius	LPM 85		8,08
Langelier Saturation Index	LPM 85		+1.04
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	2,71
Free Residual Chlorine Cl ₂ *	LPM 84		<0.1
Aluminium as Al	LPM 15	≤ 0.30	0,13

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VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	2,29
Anion Balance	2,46
% Difference	-3,5
Measured TDS	122
Calculated TDS	120
Limits > 1.0 - <1.2	1,0
Calcul TDS / E.C. (0.55 - 0.70)	0,6

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Lab No:

B 715

Analysis Results mg/l	LPM METHOD	SANS Standards -241 - 1: 2015 Ed 2 Domestic Water	EMH4/11/18
		Standard Limits	Machado Waterworks Final
Total Dissolved Solids	LPM 2	≤ 1 200	110
Suspended Solids	LPM 1		<0.5
Nitrate & Nitrite as N	LPM 32/76		0,20
Nitrate NO ₃ as N	LPM 32/76	≤ 11	0,20
Nitrite NO ₂ as N	LPM 32/76	≤ 0.9	<0.1
Chlorides as Cl	LPM 30/76	≤ 300	10,6
Total Alkalinity as CaCO ₃	LPM 11/81		80
Fluoride as F	LPM 27/76	≤ 1.5	<0.20
Sulphate as SO ₄	LPM 28/76	Acute Health ≤ 500 - Aesthetic ≤ 250	4,24
Total Hardness as CaCO ₃	LPM 85		75
Calcium Hardness as CaCO ₃	LPM 85		34
Magnesium Hardness as CaCO ₃	LPM 85		41
Calcium as Ca	LPM 15		13,5
Magnesium as Mg	LPM 15		9,93
Sodium as Na	LPM 15	≤ 200	8,76
Potassium as K	LPM 15		0,88
Iron as Fe	LPM 15	Chronic Health ≤ 2.0 - Aesthetic ≤ 0.3	0,01
Manganese as Mn	LPM 15	Chronic Health ≤ 0.4 - Aesthetic ≤ 0.1	<0.01
Conductivity at 25° C in mS/m	LPM 51/82	≤ 170	17,6
pH-Value at 25 ° C	LPM 51/82	≥ 5.0 to ≤ 9.7	8,24
pHs by 21° Celsius	LPM 85		8,27
Langelier Saturation Index	LPM 85		-0.03
Turbidity as N.T.U.	LPM 23/82	Operational ≤ 1.0 - Aesthetic ≤ 5.0	1,04
Free Residual Chlorine Cl ₂ *	LPM 84		>1.0
Aluminium as Al	LPM 15	≤ 0.30	0,06

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VALUES HIGHLIGHTED IN GREY ARE NOT WITHIN THE SANS 241 - 1 : 2015 LIMITS AS SPECIFIED

QUALITY CONTROL CHECKS

Cation Balance	1,90
Anion Balance	2,00
% Difference	-2,5
Measured TDS	110
Calculated TDS	98
Limits > 1.0 - <1.2	1,1
Calcul TDS / E.C. (0.55 - 0.70)	0,6

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