

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 255 - 258/ E /01/10
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Date received: 7 January 2010

Attention: Mr. G. Coertze

Date completed: 14 January 2010

Quantity Analyzed: 4

Lab No :

Analysis Results mg/l	E255	E256	SANS Standard Class I (recommended operational limit)
	Main Lab Drinking Water	Optimum Mine Drinking Water	
Total Dissolved Solids	120	122	< 1 000
Nitrate & Nitrite as N	<0.1	<0.1	< 10
Chlorides as Cl	16	17	< 200
Total Alkalinity as CaCO ₃	60	60	
Fluoride as F	<0.20	<0.20	< 1.0
Sulphate as SO ₄	18.9	18.5	< 400
Calcium as Ca	13.0	13.1	< 150
Magnesium as Mg	8.37	8.26	< 70
Sodium as Na	18.3	18.9	< 200
Potassium as K	3.13	3.07	< 50
Iron as Fe	0.02	0.06	< 0.20
Manganese as Mn	0.01	0.02	< 0.10
Conductivity at 25° C in mS/m	21.2	21.7	< 150
pH-Value at 25 ° C	8.03	8.23	5.0 - 9.5
Turbidity as N.T.U	0.28	5.00	< 1
Free & Saline Ammonia NH ₃ as N	<0.20	<0.20	
Free Residual Chlorine as Cl ₂	<0.1	<0.1	
Aluminium as Al	<0.01	0.02	< 0.30

All heavy metal analyses have been performed on filtered samples

Tests marked with an asterisk * are not SANAS accredited

These results are related only to the items tested

QUALITY CONTROL CHECKS		
Cation Balance	2.22	2.24
Anion Balance	2.04	2.06
% Difference	4.0	4.1
Measured TDS	120	122
Calculated TDS	114	116
Limits > 1.0 - <1.2	1.0	1.1
Calcul TDS / E.C. (0.55 - 0.70)	0.5	0.5

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

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 255 - 258/ E /01/10
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Date received: 7 January 2010
 Date completed: 14 January 2010
 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	E255	E256	SANS Standard
	Main Lab Drinking Water	Optimum Mine Drinking Water	Class I (recommended operational limit)
Selenium as Se	<0.01	<0.01	<0.02
Vanadium as V	<0.01	<0.01	<0.20
Total Organic Carbon (TOC)	3.7	3.8	
Phenolic Compounds	<0.005	<0.005	<0.01
Cyanide as CN	<0.01	<0.01	<0.05
Cadmium as Cd	<0.003	<0.003	<0.005
Cobalt as Co	<0.01	<0.01	<0.50
Total Chromium as Cr	<0.01	<0.01	<0.10
Copper as Cu	<0.01	<0.01	<1.0
Antimony as Sb	<0.005	<0.005	<0.01
Nickel as Ni	0.01	0.01	<0.15
Lead as Pb	<0.01	<0.01	<0.02
Zinc as Zn	0.07	0.05	<5.0
Arsenic as As	<0.01	<0.01	<0.01
Mercury as Hg	<0.001	<0.001	<0.001
Colour as Pt-Co*	<1.0	4.0	<20
Odour*	No offensive odour	No offensive odour	
Taste*	Acceptable Taste	Acceptable Taste	

All heavy metal analyses have been performed on filtered samples
 Tests marked with an asterisk * are not SANAS accredited
 These results are related only to the items tested

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 255 - 258/ E /01/10
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Date received: 7 January 2010

Attention: Mr. G. Coertze

Date completed: 14 January 2010

Quantity Analyzed: 4

Lab No :

E257

E258

Analysis Results mg/l	Sewage Pump House Drinking Water	Water Treatment Plant	SANS Standard
			Class I (recommended operational limit)
Total Dissolved Solids	122	122	< 1 000
Nitrate & Nitrite as N	<0.1	<0.1	< 10
Chlorides as Cl	16	17	< 200
Total Alkalinity as CaCO ₃	62	60	
Fluoride as F	<0.20	<0.20	< 1.0
Sulphate as SO ₄	19.4	19.2	< 400
Calcium as Ca	13.3	13.0	< 150
Magnesium as Mg	8.45	8.12	< 70
Sodium as Na	18.7	18.8	< 200
Potassium as K	3.53	3.39	< 50
Iron as Fe	<0.01	<0.01	< 0.20
Manganese as Mn	0.01	0.02	< 0.10
Conductivity at 25° C in mS/m	21.5	21.8	< 150
pH-Value at 25 ° C	8.59	8.32	5.0 - 9.5
Turbidity as N.T.U	0.30	0.24	< 1
Free & Saline Ammonia NH ₃ as N	<0.20	<0.20	
Free Residual Chlorine as Cl ₂	<0.1	1.00	
Aluminium as Al	<0.01	<0.01	< 0.30

All heavy metal analyses have been performed on filtered samples

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QUALITY CONTROL CHECKS		
Cation Balance	2.26	2.22
Anion Balance	2.10	2.08
% Difference	3.9	3.3
Measured TDS	122	122
Calculated TDS	117	116
Limits > 1.0 - <1.2	1.0	1.1
Calcul TDS / E.C. (0.55 - 0.70)	0.5	0.5

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

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 255 - 258/ E /01/10
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Date received: 7 January 2010
 Date completed: 14 January 2010
 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	E257	E258	SANS Standard
	Sewage Pump House Drinking Water	Water Treatment Plant	Class I (recommended operational limit)
Selenium as Se	<0.01	<0.01	<0.02
Vanadium as V	<0.01	<0.01	<0.20
Total Organic Carbon (TOC)	3.8	3.6	
Phenolic Compounds	<0.005	<0.005	<0.01
Cyanide as CN	<0.01	<0.01	<0.05
Cadmium as Cd	<0.003	<0.003	<0.005
Cobalt as Co	<0.01	<0.01	<0.50
Total Chromium as Cr	<0.01	<0.01	<0.10
Copper as Cu	<0.01	<0.01	<1.0
Antimony as Sb	<0.005	<0.005	<0.01
Nickel as Ni	0.01	<0.01	<0.15
Lead as Pb	<0.01	<0.01	<0.02
Zinc as Zn	0.07	0.02	<5.0
Arsenic as As	<0.01	<0.01	<0.01
Mercury as Hg	<0.001	<0.001	<0.001
Colour as Pt-Co*	<1.0	<1.0	<20
Odour*	No offensive odour	No offensive odour	
Taste*	Acceptable Taste	Acceptable Taste	

All heavy metal analyses have been performed on filtered samples

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<i>Class 2 (max allowable for limited duration)</i>
<i>> 1 000 - 2 400</i>
<i>> 10 - 20</i>
<i>> 200 - 600</i>
<i>> 1.0 - 1.5</i>
<i>> 400 - 600</i>
<i>> 150 - 300</i>
<i>> 70 - 100</i>
<i>> 200 - 400</i>
<i>> 50 - 100</i>
<i>> 0.20 - 2.0</i>
<i>> 0.10 - 1.0</i>
<i>> 150 - 370</i>
<i>> 4.0 - 10.0</i>
<i>> 1 - 5</i>
<i>> 0.30 - 0.50</i>

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<i>Class 2 (max allowable for limited duration)</i>
>0.02 - 0.05
>0.2 - 0.5
>0.01 - 0.07
>0.05 - 0.07
>0.005 - 0.01
>0.50 - 1.0
>0.10 - 0.50
>1.0 - 2.0
>0.01 - 0.05
>0.15 - 0.35
>0.02 - 0.05
>5.0 - 10.0
>0.01 - 0.05
>0.001 - 0.005
>20 - 50

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<i>regs -241 (2005)</i>
<i>Class 2 (max allowable for limited duration)</i>
<i>> 1 000 - 2 400</i>
<i>> 10 - 20</i>
<i>> 200 - 600</i>
<i>> 1.0 - 1.5</i>
<i>> 400 - 600</i>
<i>> 150 - 300</i>
<i>> 70 - 100</i>
<i>> 200 - 400</i>
<i>> 50 - 100</i>
<i>> 0.20 - 2.0</i>
<i>> 0.10 - 1.0</i>
<i>> 150 - 370</i>
<i>> 4.0 - 10.0</i>
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<i>> 0.30 - 0.50</i>

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<i>Class 2 (max allowable for limited duration)</i>
>0.02 - 0.05
>0.2 - 0.5
>0.01 - 0.07
>0.05 - 0.07
>0.005 - 0.01
>0.50 - 1.0
>0.10 - 0.50
>1.0 - 2.0
>0.01 - 0.05
>0.15 - 0.35
>0.02 - 0.05
>5.0 - 10.0
>0.01 - 0.05
>0.001 - 0.005
>20 - 50

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 175 - 178/ A /02/10
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Date received: 9 February 2010
 Date reported: 17 February 2010
 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	Water Plant	Lab	SANS Standard
			Class I (recommended operational limit)
Total Dissolved Solids	124	120	< 1 000
Nitrate & Nitrite as N	<0.1	<0.1	< 10
Chlorides as Cl	18	18	< 200
Total Alkalinity as CaCO ₃	64	58	
Fluoride as F	<0.20	<0.20	< 1.0
Sulphate as SO ₄	22.2	22.8	< 400
Calcium as Ca	11.5	11.3	< 150
Magnesium as Mg	7.47	7.51	< 70
Sodium as Na	17.5	16.1	< 200
Potassium as K	2.56	2.56	< 50
Iron as Fe	0.03	<0.01	< 0.20
Manganese as Mn	0.03	0.04	< 0.10
Conductivity at 25° C in mS/m	20.5	20.5	< 150
pH-Value at 25 ° C	7.92	7.87	5.0 - 9.5
Turbidity as N.T.U	1.3	2.5	< 1
Free & Saline Ammonia NH ₃ as N	0.23	<0.20	
Aluminium as Al	0.07	0.04	< 0.30

All heavy metal analyses have been performed on filtered samples

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QUALITY CONTROL CHECKS		
Cation Balance	2.04	1.95
Anion Balance	2.25	2.14
% Difference	-4.8	-4.6
Measured TDS	124	120
Calculated TDS	118	114
Limits > 1.0 - <1.2	1.0	1.1
Calcul TDS / E.C. (0.55 - 0.70)	0.6	0.6

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 175 - 178/ A /02/10
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Date received: 9 February 2010
 Date reported: 17 February 2010
 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	A 175	A 176	SANS Standard
	Water Plant	Lab	Class I (recommended operational limit)
Selenium as Se	<0.01	<0.01	<0.02
Vanadium as V	<0.01	<0.01	<0.20
Total Organic Carbon (TOC)	4.11	3.77	
Phenolic Compounds	<0.005	<0.005	<0.01
Cyanide as CN	<0.01	<0.01	<0.05
Cadmium as Cd	<0.003	<0.003	<0.005
Cobalt as Co	<0.01	<0.01	<0.50
Total Chromium as Cr	<0.01	<0.01	<0.10
Copper as Cu	0.01	0.02	<1.0
Antimony as Sb	<0.005	<0.005	<0.01
Nickel as Ni	0.01	0.01	<0.15
Lead as Pb	<0.01	<0.01	<0.02
Zinc as Zn	0.02	0.05	<5.0
Arsenic as As	<0.01	<0.01	<0.01
Mercury as Hg	<0.001	<0.001	<0.001
Colour as Pt-Co*	1	4	<20
Odour*	No offensive odour	No offensive odour	
Taste*	Acceptable Taste	Acceptable Taste	

All heavy metal analyses have been performed on filtered samples
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HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 175 - 178/ A /02/10
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 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	A 177 Pump Station	A 178 Optimum Colliery	SANS Standard
			Class I (recommended operational limit)
Total Dissolved Solids	116	122	< 1 000
Nitrate & Nitrite as N	<0.1	<0.1	< 10
Chlorides as Cl	16	17	< 200
Total Alkalinity as CaCO ₃	60	62	
Fluoride as F	<0.20	<0.20	< 1.0
Sulphate as SO ₄	22.8	22.9	< 400
Calcium as Ca	12.7	12.3	< 150
Magnesium as Mg	7.88	7.71	< 70
Sodium as Na	13.8	17.2	< 200
Potassium as K	2.59	2.66	< 50
Iron as Fe	0.02	0.24	< 0.20
Manganese as Mn	0.02	0.02	< 0.10
Conductivity at 25° C in mS/m	19.7	20.9	< 150
pH-Value at 25 ° C	7.82	8.14	5.0 - 9.5
Turbidity as N.T.U	1.6	4.7	< 1
Free & Saline Ammonia NH ₃ as N	<0.20	<0.20	
Aluminium as Al	0.01	<0.01	< 0.30

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QUALITY CONTROL CHECKS		
Cation Balance	1.95	2.08
Anion Balance	2.13	2.20
% Difference	-4.3	-2.8
Measured TDS	116	122
Calculated TDS	112	118
Limits > 1.0 - <1.2	1.0	1.0
Calcul TDS / E.C. (0.55 - 0.70)	0.6	0.6

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 175 - 178/ A /02/10
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Date received: 9 February 2010
 Date reported: 17 February 2010
 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	A 177	A 178	SANS Standard
	Pump Station	Optimum Colliery	Class I (recommended operational limit)
Selenium as Se	<0.01	<0.01	<0.02
Vanadium as V	<0.01	<0.01	<0.20
Total Organic Carbon (TOC)	4.37	3.71	
Phenolic Compounds	<0.005	<0.005	<0.01
Cyanide as CN	<0.01	<0.01	<0.05
Cadmium as Cd	<0.003	<0.003	<0.005
Cobalt as Co	<0.01	<0.01	<0.50
Total Chromium as Cr	<0.01	<0.01	<0.10
Copper as Cu	0.01	0.01	<1.0
Antimony as Sb	<0.005	<0.005	<0.01
Nickel as Ni	0.02	0.02	<0.15
Lead as Pb	<0.01	<0.01	<0.02
Zinc as Zn	0.03	0.12	<5.0
Arsenic as As	<0.01	<0.01	<0.01
Mercury as Hg	<0.001	<0.001	<0.001
Colour as Pt-Co*	2	23	<20
Odour*	No offensive odour	No offensive odour	
Taste*	Acceptable Taste	Acceptable Taste	

All heavy metal analyses have been performed on filtered samples

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Class 2 (max allowable for limited duration)
> 1 000 - 2 400
> 10 - 20
> 200 - 600
> 1.0 - 1.5
> 400 - 600
> 150 - 300
> 70 - 100
> 200 - 400
> 50 - 100
> 0.20 - 2.0
> 0.10 - 1.0
> 150 - 370
> 4.0 - 10.0
> 1 - 5
> 0.30 - 0.50

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<i>Class 2 (max allowable for limited duration)</i>
>0.02 - 0.05
>0.2 - 0.5
>0.01 - 0.07
>0.05 - 0.07
>0.005 - 0.01
>0.50 - 1.0
>0.10 - 0.50
>1.0 - 2.0
>0.01 - 0.05
>0.15 - 0.35
>0.02 - 0.05
>5.0 - 10.0
>0.01 - 0.05
>0.001 - 0.005
>20 - 50

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ards -241 (2005)
Class 2 (max allowable for limited duration)
> 1 000 - 2 400
> 10 - 20
> 200 - 600
> 1.0 - 1.5
> 400 - 600
> 150 - 300
> 70 - 100
> 200 - 400
> 50 - 100
> 0.20 - 2.0
> 0.10 - 1.0
> 150 - 370
> 4.0 - 10.0
> 1 - 5
> 0.30 - 0.50

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<i>Class 2 (max allowable for limited duration)</i>
>0.02 - 0.05
>0.2 - 0.5
>0.01 - 0.07
>0.05 - 0.07
>0.005 - 0.01
>0.50 - 1.0
>0.10 - 0.50
>1.0 - 2.0
>0.01 - 0.05
>0.15 - 0.35
>0.02 - 0.05
>5.0 - 10.0
>0.01 - 0.05
>0.001 - 0.005
>20 - 50

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 362 - 365
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Date received: 4 March 2010

Attention: Mr. G. Coertze

Date reported: 11 March 2010

Quantity Analyzed: 4

Lab No :

D 362

D 363

Analysis Results mg/l	Lab	Pump Station Tap	SANS Standard
			Class I (recommended operational limit)
Total Dissolved Solids	126	122	< 1 000
Nitrate & Nitrite as N	<0.1	<0.1	< 10
Chlorides as Cl	17	16	< 200
Total Alkalinity as CaCO ₃	56	55	
Fluoride as F	0.60	0.26	< 1.0
Sulphate as SO ₄	21.3	19.8	< 400
Calcium as Ca	11.0	12.1	< 150
Magnesium as Mg	7.02	7.34	< 70
Sodium as Na	16.5	15.0	< 200
Potassium as K	2.53	2.73	< 50
Iron as Fe	<0.01	<0.01	< 0.20
Manganese as Mn	<0.01	<0.01	< 0.10
Conductivity at 25° C in mS/m	20.6	20.0	< 150
pH-Value at 25 ° C	7.97	8.06	5.0 - 9.5
Turbidity as N.T.U	0.73	0.61	< 1
Free & Saline Ammonia NH ₃ as N	<0.20	<0.20	
Aluminium as Al	<0.01	<0.01	< 0.30

All heavy metal analyses have been performed on filtered samples

Tests marked with an asterisk * are not SANAS accredited

These results are related only to the items tested

QUALITY CONTROL CHECKS		
Cation Balance	1.91	1.93
Anion Balance	2.07	1.98
% Difference	-4.2	-1.2
Measured TDS	126	122
Calculated TDS	110	107
Limits > 1.0 - <1.2	1.1	1.1
Calcul TDS / E.C. (0.55 - 0.70)	0.5	0.5

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 362 - 365
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Date received: 4 March 2010

Attention: Mr. G. Coertze

Date reported: 11 March 2010

Quantity Analyzed: 4

Lab No :

D 362

D 363

Analysis Results mg/l	Lab	Pump Station Tap	SANS Standard
			Class I (recommended operational limit)
Selenium as Se	<0.01	<0.01	<0.02
Vanadium as V	<0.01	<0.01	<0.20
Total Organic Carbon (TOC)	3.6	3.8	
Phenolic Compounds	<0.005	<0.005	<0.01
Cyanide as CN	<0.01	<0.01	<0.05
Cadmium as Cd	<0.003	<0.003	<0.005
Cobalt as Co	<0.01	<0.01	<0.50
Total Chromium as Cr	<0.01	<0.01	<0.10
Copper as Cu	0.02	0.01	<1.0
Antimony as Sb	<0.005	<0.005	<0.01
Nickel as Ni	0.01	0.01	<0.15
Lead as Pb	<0.01	<0.01	<0.02
Zinc as Zn	0.06	0.02	<5.0
Arsenic as As	<0.01	<0.01	<0.01
Mercury as Hg	<0.001	<0.001	<0.001
Colour as Pt-Co*	<1.0	<1.0	<20
Odour*	Acceptable Taste	Acceptable Taste	
Taste*	Acceptable Taste	Acceptable Taste	

All heavy metal analyses have been performed on filtered samples

Tests marked with an asterisk * are not SANAS accredited

These results are related only to the items tested

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 362 - 365
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Date received: 4 March 2010

Attention: Mr. G. Coertze

Date reported: 11 March 2010

Quantity Analyzed: 4

Lab No :

D 364

D 365

Analysis Results mg/l	Water Plant	Optimum Colliery Tap	SANS Standard
			Class I (recommended operational limit)
Total Dissolved Solids	122	124	< 1 000
Nitrate & Nitrite as N	<0.1	<0.1	< 10
Chlorides as Cl	16	18	< 200
Total Alkalinity as CaCO ₃	58	60	
Fluoride as F	0.20	<0.20	< 1.0
Sulphate as SO ₄	19.3	19.0	< 400
Calcium as Ca	11.0	11.4	< 150
Magnesium as Mg	7.11	7.01	< 70
Sodium as Na	15.7	16.7	< 200
Potassium as K	2.68	2.55	< 50
Iron as Fe	<0.01	0.11	< 0.20
Manganese as Mn	<0.01	<0.01	< 0.10
Conductivity at 25° C in mS/m	20.5	21.1	< 150
pH-Value at 25 ° C	8.00	8.38	5.0 - 9.5
Turbidity as N.T.U	0.7	3.8	< 1
Free & Saline Ammonia NH ₃ as N	<0.20	<0.20	
Aluminium as Al	<0.01	<0.01	< 0.30

All heavy metal analyses have been performed on filtered samples

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These results are related only to the items tested

QUALITY CONTROL CHECKS		
Cation Balance	1.89	1.94
Anion Balance	2.02	2.10
% Difference	-3.5	-3.9
Measured TDS	122	124
Calculated TDS	107	111
Limits > 1.0 - <1.2	1.1	1.1
Calcul TDS / E.C. (0.55 - 0.70)	0.5	0.5

HENDRINA POWER STATION

CHEMICAL ANALYSIS	Our Ref: HPS / 362 - 365
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Date received: 4 March 2010
 Date reported: 11 March 2010
 Quantity Analyzed: 4
 Lab No :

Attention: Mr. G. Coertze

Analysis Results mg/l	Water Plant	Optimum Colliery Tap	SANS Standard
			Class I (recommended operational limit)
Selenium as Se	<0.01	<0.01	<0.02
Vanadium as V	<0.01	<0.01	<0.20
Total Organic Carbon (TOC)	3.4	3.3	
Phenolic Compounds	<0.005	<0.005	<0.01
Cyanide as CN	<0.01	<0.01	<0.05
Cadmium as Cd	<0.003	<0.003	<0.005
Cobalt as Co	<0.01	<0.01	<0.50
Total Chromium as Cr	<0.01	<0.01	<0.10
Copper as Cu	0.01	0.01	<1.0
Antimony as Sb	<0.005	<0.005	<0.01
Nickel as Ni	<0.01	<0.01	<0.15
Lead as Pb	<0.01	<0.01	<0.02
Zinc as Zn	0.03	0.12	<5.0
Arsenic as As	<0.01	<0.01	<0.01
Mercury as Hg	<0.001	<0.001	<0.001
Colour as Pt-Co*	<1.0	6	<20
Odour*	Acceptable Taste	Acceptable Taste	
Taste*	Acceptable Taste	Acceptable Taste	

All heavy metal analyses have been performed on filtered samples

Tests marked with an asterisk * are not SANAS accredited

These results are related only to the items tested

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fax: 013-656-5050
lab@mweb.co.za

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<i>Class 2 (max allowable for limited duration)</i>
> 1 000 - 2 400
> 10 - 20
> 200 - 600
> 1.0 - 1.5
> 400 - 600
> 150 - 300
> 70 - 100
> 200 - 400
> 50 - 100
> 0.20 - 2.0
> 0.10 - 1.0
> 150 - 370
> 4.0 - 10.0
> 1 - 5
> 0.30 - 0.50

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<i>Class 2 (max allowable for limited duration)</i>
>0.02 - 0.05
>0.2 - 0.5
>0.01 - 0.07
>0.05 - 0.07
>0.005 - 0.01
>0.50 - 1.0
>0.10 - 0.50
>1.0 - 2.0
>0.01 - 0.05
>0.15 - 0.35
>0.02 - 0.05
>5.0 - 10.0
>0.01 - 0.05
>0.001 - 0.005
>20 - 50

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<i>Class 2 (max allowable for limited duration)</i>
<i>> 1 000 - 2 400</i>
<i>> 10 - 20</i>
<i>> 200 - 600</i>
<i>> 1.0 - 1.5</i>
<i>> 400 - 600</i>
<i>> 150 - 300</i>
<i>> 70 - 100</i>
<i>> 200 - 400</i>
<i>> 50 - 100</i>
<i>> 0.20 - 2.0</i>
<i>> 0.10 - 1.0</i>
<i>> 150 - 370</i>
<i>> 4.0 - 10.0</i>
<i>> 1 - 5</i>
<i>> 0.30 - 0.50</i>

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<i>Class 2 (max allowable for limited duration)</i>
>0.02 - 0.05
>0.2 - 0.5
>0.01 - 0.07
>0.05 - 0.07
>0.005 - 0.01
>0.50 - 1.0
>0.10 - 0.50
>1.0 - 2.0
>0.01 - 0.05
>0.15 - 0.35
>0.02 - 0.05
>5.0 - 10.0
>0.01 - 0.05
>0.001 - 0.005
>20 - 50