

UTILITY SERVICES - WATER & SANITATION - SCIENTIFIC SERVICES (MISCELLANEOUS)							
SERVICES RENDERED	UNIT	REMARKS	2013/14	2013/14	VAT	2014/15	2014/15
			Recalculated	R	Yes/No	Recalculated	R
			excl. VAT	incl. VAT		excl. VAT	incl. VAT
LAB TESTS: WATER (DRINKING)		All charges are per test.					
pH			29.82	34.00	y	31.58	36.00
Conductivity			29.82	34.00	y	31.58	36.00
Alkalinity			29.82	34.00	y	31.58	36.00
Chloride			29.82	34.00	y	31.58	36.00
Colour			29.82	34.00	y	31.58	36.00
Calcium			44.74	51.00	y	47.37	54.00
Magnesium			44.74	51.00	y	47.37	54.00
Aluminium			44.74	51.00	y	47.37	54.00
Iron mg			44.74	51.00	y	47.37	54.00
Antimony			44.74	51.00	y	47.37	54.00
Arsenic (undigested)			44.74	51.00	y	47.37	54.00
Cyanide (total dissolved)			115.79	132.00	y	122.54	139.70
Phenol (total dissolved or free)			115.79	132.00	y	122.54	139.70
Selenium			44.74	51.00	y	47.37	54.00
Total Organic Carbon (TOC)			128.95	147.00	y	136.40	155.50
Cadmium			44.74	51.00	y	47.37	54.00
Chromium			44.74	51.00	y	47.37	54.00
Cobalt			44.74	51.00	y	47.37	54.00
Lead			44.74	51.00	y	47.37	54.00
Nickel			44.74	51.00	y	47.37	54.00
Strontium			44.74	51.00	y	47.37	54.00
Total Hardness			44.74	51.00	y	47.37	54.00
Calcium Hardness			44.74	51.00	y	47.37	54.00
Magnesium Hardness			44.74	51.00	y	47.37	54.00
Turbidity NTU			44.74	51.00	y	47.37	54.00
Vanadium			44.74	51.00	y	47.37	54.00
Zinc			44.74	51.00	y	47.37	54.00
Manganese			44.74	51.00	y	47.37	54.00
Sodium			44.74	51.00	y	47.37	54.00
Potassium			44.74	51.00	y	47.37	54.00
Sulphate			44.74	51.00	y	47.37	54.00
UV 4cm at 300nm			44.74	51.00	y	47.37	54.00
Ammonia			44.74	51.00	y	47.37	54.00
Residual Chlorine (DPD)			44.74	51.00	y	47.37	54.00
Total Dissolved Solids			44.74	51.00	y	47.37	54.00
Nitrite (NO2)			44.74	51.00	y	47.37	54.00
Nitrate (NO3)			44.74	51.00	y	47.37	54.00

UTILITY SERVICES - WATER & SANITATION - SCIENTIFIC SERVICES (MISCELLANEOUS)

SERVICES RENDERED	UNIT	REMARKS	2013/14 Recalculated	2013/14 R	VAT Yes/No	2014/15 Recalculated	2014/15 R
Nitrate + Nitrite			44.74	51.00	y	47.37	54.00
Fluoride			44.74	51.00	y	47.37	54.00
Copper			44.74	51.00	y	47.37	54.00
Silica			44.74	51.00	y	47.37	54.00
Phosphate (Total)			44.74	51.00	y	47.37	54.00
Geosmin and 2 Methylisoborneol			899.12	1 025.00	y	951.32	1 084.50
Trihalomethanes			450.00	513.00	y	476.14	542.80
Organochlorine pesticides			N/A	N/A	y	N/A	N/A
Volatile gases O ² ,N ² ,CO ² ,CH ₄			N/A	N/A	y	N/A	N/A
LAB TESTS WASTEWATER/SOLID WASTE/INDUSTRIAL EFFLUENT		All charges are per test.					
Total Suspended Solids			69.30	79.00	y	73.33	83.60
Total + Volatile Suspended Solids			76.32	87.00	y	80.70	92.00
Total + Volatile Solids			76.32	87.00	y	80.70	92.00
Settleable Solids			38.60	44.00	y	40.88	46.60
Total Solids			69.30	79.00	y	73.33	83.60
COD			115.79	132.00	y	122.54	139.70
COD (filt)			115.79	132.00	y	122.54	139.70
TKN			115.79	132.00	y	122.54	139.70
Ammonia			69.30	79.00	y	73.33	83.60
Nitrate			92.98	106.00	y	98.33	112.10
Nitrite			92.98	106.00	y	98.33	112.10
Nitrate + Nitrite			92.98	106.00	y	98.33	112.10
Total Phosphorous			115.79	132.00	y	122.54	139.70
Ortho-phosphate			76.32	87.00	y	80.70	92.00
Chloride			69.30	79.00	y	73.33	83.60
Sulphate			84.21	96.00	y	89.12	101.60
pH			29.82	34.00	y	31.58	36.00
pH (+sludges)			31.58	36.00	y	33.42	38.10
Conductivity			31.58	36.00	y	33.42	38.10
Alkalinity			69.30	79.00	y	73.33	83.60
SVI			38.60	44.00	y	40.88	46.60
DSVI			38.60	44.00	y	40.88	46.60
Volatile Fatty Acids			76.32	87.00	y	80.70	92.00
Tannin			76.32	87.00	y	80.70	92.00
Hydrazine			76.32	87.00	y	80.70	92.00
Hydrogen Sulphide			44.74	51.00	y	47.37	54.00
Residual Chlorine			46.49	53.00	y	49.21	56.10
Arsenic (digested)			115.79	132.00	y	122.54	139.70

UTILITY SERVICES - WATER & SANITATION - SCIENTIFIC SERVICES (MISCELLANEOUS)							
SERVICES RENDERED	UNIT	REMARKS	2013/14 Recalculated	2013/14 R	VAT Yes/No	2014/15 Recalculated	2014/15 R
Arsenic (undigested)			44.74	51.00	y	47.37	54.00
BOD			200.88	229.00	y	212.54	242.30
Boron			84.21	96.00	y	89.12	101.60
Cyanide (total dissolved)			115.79	132.00	y	122.54	139.70
Fats & Oils (Gravimetric)			371.93	424.00	y	393.51	448.60
Mercury			185.96	212.00	y	196.75	224.30
Phenols (Total dissolved)			115.79	132.00	y	122.54	139.70
Metals (Individual)			115.79	132.00	y	122.54	139.70
Metals (Individual for Boreholes)			44.74	51.00	y	47.37	54.00
Metals (Individual for TCLP)			115.79	132.00	y	122.54	139.70
Metals (Total - Raw Influent)			1 577.19	1 798.00	y	1 668.68	1 902.30
Metals (Total - Final Effluent)			1 577.19	1 798.00	y	1 668.68	1 902.30
Metals (Total - Sludges)			1 648.25	1 879.00	y	1 743.86	1 988.00
Calcium			115.79	132.00	y	122.54	139.70
Potassium			115.79	132.00	y	122.54	139.70
Lithium			115.79	132.00	y	122.54	139.70
Magnesium			115.79	132.00	y	122.54	139.70
Molybdenum			115.79	132.00	y	122.54	139.70
Selenium			115.79	132.00	y	122.54	139.70
Sodium			115.79	132.00	y	122.54	139.70
Flashpoint			115.79	132.00	y	122.54	139.70
Oils (Extractable)			N/A	N/A	y	N/A	N/A
Oils (Total)			N/A	N/A	y	N/A	N/A
LAB TESTS: TOXIN ANALYSIS		All charges are per test.					
Microcystin - Eliza Method			819.30	934.00	y	866.84	988.20
Mircocystin - HPLC Method			899.12	1 025.00	y	951.32	1 084.50
HYDROBIOLOGICAL ANALYSIS							
Individual Tests							
Algal Enumeration & Identification			161.40	184.00	y	170.79	194.70
Chlorophyll-a			149.12	170.00	y	157.81	179.90
Phaeophytin			149.12	170.00	y	157.81	179.90
Price for combined tests			309.65	353.00	y	327.63	373.50
Algal Enumeration & Identification							
Chlorophyll-a							
Phaeophytin							
LAB TESTS BACTERIOLOGICAL							

UTILITY SERVICES - WATER & SANITATION - SCIENTIFIC SERVICES (MISCELLANEOUS)							
SERVICES RENDERED	UNIT	REMARKS	2013/14	2013/14	VAT	2014/15	2014/15
			Recalculated	R	Yes/No	Recalculated	R
INDIVIDUAL TESTS (treated water)		All charges are per test.					
Total heterotrophic Plate Count			67.54	77.00	y	71.49	81.50
Total Coliform Count (membrane filtration method)			101.75	116.00	y	107.63	122.70
Faecal Coliform Count (membrane filtration method)			101.75	116.00	y	107.63	122.70
<i>E coli</i> + Faecal Coliform Count (membrane filtration			112.28	128.00	y	118.77	135.40
Total Coliform + <i>E coli</i> (Colilert method)			179.82	205.00	y	190.26	216.90
<i>Pseudomonas</i>			103.51	118.00	y	109.47	124.80
INDIVIDUAL TESTS (environmental water)		All charges are per test.					
<i>E coli</i> + Faecal Coliform Count (membrane filtration			122.81	140.00	y	129.91	148.10
<i>E coli</i> Count (1dilution) (colilert method)			179.82	205.00	y	190.26	216.90
For every additional dilution (colilert method)			67.54	77.00	y	71.49	81.50
Enterococcus Count (membrane filtration method)			114.04	130.00	y	120.61	137.50
PARASITES		Combined charges	2 715.79	3 096.00	y	2 873.33	3 275.60
Cryptosporidium and Giardia							
LAB TESTS: HYDRO-ENVIRONMENTAL CHEMISTRY		All charges are per test.					
Alkalinity			69.30	79.00	y	73.33	83.60
Aluminium			44.74	51.00	y	47.37	54.00
Ammonia			69.30	79.00	y	73.33	83.60
Arsenic (digested)			115.79	132.00	y	122.54	139.70
Arsenic (undigested)			44.74	51.00	y	47.37	54.00
BOD			200.88	229.00	y	212.54	242.30
Boron			84.21	96.00	y	89.12	101.60
Cadmium			44.74	51.00	y	47.37	54.00
Calcium			115.79	132.00	y	122.54	139.70
Calcium Hardness			44.74	51.00	y	47.37	54.00
Chloride			69.30	79.00	y	73.33	83.60
Chromium			44.74	51.00	y	47.37	54.00
Cobalt			44.74	51.00	y	47.37	54.00
COD			115.79	132.00	y	122.54	139.70
COD (filtered)			115.79	132.00	y	122.54	139.70
Conductivity			31.58	36.00	y	33.42	38.10
Copper			44.74	51.00	y	47.37	54.00
Cyanide (total dissolved)			115.79	132.00	y	122.54	139.70
Dissolved Oxygen (probe)			29.82	34.00	y	31.58	36.00
Flouride			44.74	51.00	y	47.37	54.00
Geosmin & 2-Methylisoborneol			899.12	1 025.00	y	951.32	1 084.50

UTILITY SERVICES - WATER & SANITATION - SCIENTIFIC SERVICES (MISCELLANEOUS)							
SERVICES RENDERED	UNIT	REMARKS	2013/14 Recalculated	2013/14 R	VAT Yes/No	2014/15 Recalculated	2014/15 R
Iron			44.74	51.00	y	47.37	54.00
Lead			44.74	51.00	y	47.37	54.00
Lithium			115.79	132.00	y	122.54	139.70
Magnesium			115.79	132.00	y	122.54	139.70
Magnesium Hardness			44.74	51.00	y	47.37	54.00
Manganese			44.74	51.00	y	47.37	54.00
Mercury			185.96	212.00	y	196.75	224.30
Molybdenum			115.79	132.00	y	122.54	139.70
Metals (Individual)			115.79	132.00	y	122.54	139.70
Metals (Individual for Boreholes)			44.74	51.00	y	47.37	54.00
Metals (Total - Sludges)		Combined Charge	1 648.25	1 879.00	y	1 743.86	1 988.00
Nickel			44.74	51.00	y	47.37	54.00
Nitrate			92.98	106.00	y	98.33	112.10
Nitrite			92.98	106.00	y	98.33	112.10
Nitrate + Nitrite			92.98	106.00	y	98.33	112.10
Ortho-phosphate			76.32	87.00	y	80.70	92.00
pH			29.82	34.00	y	31.58	36.00
pH (Sludges)			31.58	36.00	y	33.42	38.10
Phenols (total dissolved)			115.79	132.00	y	122.54	139.70
Potassium			115.79	132.00	y	122.54	139.70
Residual Chlorine (DPD)			44.74	51.00	y	47.37	54.00
Selenium			115.79	132.00	y	122.54	139.70
Silica			44.74	51.00	y	47.37	54.00
Sodium			115.79	132.00	y	122.54	139.70
Strontium			44.74	51.00	y	47.37	54.00
Sulphate			84.21	96.00	y	89.12	101.60
Total Dissolved Solids			44.74	51.00	y	47.37	54.00
Total Hardness			44.74	51.00	y	47.37	54.00
TPON			115.79	132.00	y	122.54	139.70
Total Phosphorous			115.79	132.00	y	122.54	139.70
Total Solids			69.30	79.00	y	73.33	83.60
Total Suspended Solids			69.30	79.00	y	73.33	83.60
Total + Volatile Solids			76.32	87.00	y	80.70	92.00
Total + Volatile Suspended Solids			76.32	87.00	y	80.70	92.00
Turbidity			44.74	51.00	y	47.37	54.00
UV 4cm at 300nm			44.74	51.00	y	47.37	54.00
Vanadium			44.74	51.00	y	47.37	54.00
Volatile Fatty Acids			76.32	87.00	y	80.70	92.00
Zinc			44.74	51.00	y	47.37	54.00

UTILITY SERVICES - WATER & SANITATION - SCIENTIFIC SERVICES (MISCELLANEOUS)							
SERVICES RENDERED	UNIT	REMARKS	2013/14	2013/14	VAT	2014/15	2014/15
			Recalculated	R	Yes/No	Recalculated	R
A MINIMUM ADMINISTRATIVE HANDLING FEE OF R265 (VAT EXCLUSIVE) WILL BE CHARGED PER SAMPLE. IF THE ANALYSIS REQUESTED AMOUNTS TO MORE THAN R265 PER SAMPLE, THEN ONLY THE COST OF THE ANALYSIS WILL BE CHARGED							