

**FAO:** Richard Lane  
 Geologic Boreholes & Systems Ltd  
 Unit 2  
 Moorview Industrial Estate  
 Straightway Head  
 Whimble  
 DEVON  
 EX5 2QT

**From:** SWW Laboratory Services  
 Exeter Laboratories  
 Bridge Road  
 Exeter  
 EX2 7AA  
 Tel: 01392 205700  
 Fax: 01392 205756

Sampler LBENNETTS  
 Sampled date 19-Jun-2014 13:15  
 Collected from KOBASHI - TAP  
 Material code Private Water Supply Raw ( W55 )  
 Purpose code Private ( P )  
 Sampling method Single spot ( S )  
 Date Sample Received 19-Jun-2014 16:30  
 Date authorised 30-Jun-2014 08:20

**MICROBIOLOGY**

<u>Bacteriology</u>	<u>Result</u>	<u>Unit</u>	<u>PCV</u>	<u>Notes</u>	<u>Method Reference</u>
Presumptive(Total)coliforms by Membrane Filtration	0	no/100ml	Max 0 no/100ml	U 1	RAW AND WASTE WATER BY MF
Presumptive Faecal coliform by Membrane Filtration	0	no/100ml	Max 0 no/100ml	U	RAW AND WASTE WATER BY MF
Presumptive Enterococci by Membrane Filtration	0	no/100ml	Max 0 no/100ml	U	RAW AND WASTE WATER BY MF
TVC by Pour Plate at 22 °C for 3 days	560	no/ml		U 2	TVC BY POUR PLATE
TVC by Pour Plate at 37 °C for 2 days	300	no/ml		U 3	TVC BY POUR PLATE
<u>Miscellaneous analysis</u>	<u>Result</u>	<u>Unit</u>	<u>PCV</u>	<u>Notes</u>	<u>Method Reference</u>
Transmittance at 254nm by Spectro.	97.8	%		N 4	UV TRANS BY SPEC

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Comments

*For Microbiology tests, zero means 'not detected per volume examined'.*

**INORGANIC CHEMISTRY**

<u>General Chemical Analysis</u>	<u>Result</u>	<u>Unit</u>	<u>PCV</u>	<u>Notes</u>	<u>Method Reference</u>
pH Langelier Index by Calculation	7.6	pH units		N	CALCULATION
Hydrogen ion conc by pH Electrode	7.3	pH units	6.5 - 9.5 pH units	U	PH COND ALK WATERS
Conductivity at 20°C by Electro Conductivity	404	µS/cm	Max 2500.0 µS/cm	U	PH COND ALK WATERS
Dry Residue by Calculation	283	mg/l	Max 1750.00 mg/l	N	CALCULATION
Alkalinity Bicarbonate as HCO <sub>3</sub> by Calculation	204	mg/l		U	CALCULATION
Alkalinity Carbonate as HCO <sub>3</sub> by Calculation	0	mg/l		U	CALCULATION
Alkalinity Hydroxide as HCO <sub>3</sub> by Calculation	0	mg/l		U	CALCULATION
Alkalinity at pH 8.3 as HCO <sub>3</sub> by Titr	0	mg/l		U	PH COND ALK WATERS
Alkalinity at pH 4.5 Tot as HCO <sub>3</sub> by Titr	204	mg/l		U	PH COND ALK WATERS
Carbon Dioxide Free as CO <sub>2</sub> by Calculation	15.67	mg/l		U	CALCULATION
Hardness Calcium as Ca by Calculation	57.0	mg/l		U	CALCULATION
Hardness Carbonate as Ca by Calculation	66.7	mg/l		U	CALCULATION
Hardness Magnesium as Ca by Calculation	33.6	mg/l		U	CALCULATION
Hardness Non Carbonate as Ca by Calculation	23.5	mg/l		U	CALCULATION
Hardness(Total)as Ca by Calculation	90.2	mg/l		U	CALCULATION
Hardness(Total)as CaCO <sub>3</sub> by Calculation	225.50	mg/l		U	CALCULATION
Colour as Pt/Co by Spectrophotometry	<0.6	mg/l	Max 20 mg/l	U <	COLOUR
Turbidity by Nephelometry	0.19	NTU	Max 4.00 NTU	U	TURBIDITY
Solids Suspended at 105°C by Gravimetry	1	mg/l		U	SUSPENDE SOLIDS
<u>Metals</u>	<u>Result</u>	<u>Unit</u>	<u>PCV</u>	<u>Notes</u>	<u>Method Reference</u>
Calcium as Ca by ICPMS	57	mg/l		U	METALS & CATS IN CLEAN WATER

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**INORGANIC CHEMISTRY**

<u>Metals</u>	<u>Result</u>	<u>Unit</u>	<u>PCV</u>	<u>Notes</u>	<u>Method Reference</u>
Magnesium as Mg by ICPMS	20	mg/l		U	METALS & CATS IN CLEAN WATER
Potassium as K by ICPMS	2.4	mg/l		U	METALS & CATS IN CLEAN WATER
Sodium as Na by ICPMS	27	mg/l	Max 200.00 mg/l	U	METALS & CATS IN CLEAN WATER
Aluminium as Al by ICPMS	<7	µg/l	Max 200.00 µg/l	U <	METALS & CATS IN CLEAN WATER
Iron(Dissolved) as Fe by ICPMS	6.88	µg/l	Max 200.00 µg/l	U	METALS & CATS IN CLEAN WATER
Iron as Fe by ICPMS	<6.5	µg/l	Max 200.00 µg/l	U <	METALS & CATS IN CLEAN WATER
Manganese as Mn by ICPMS	<2	µg/l	Max 50.00 µg/l	U <	METALS & CATS IN CLEAN WATER
Copper as Cu by ICPMS	0.0684	mg/l	Max 2.00 mg/l	U	METALS & CATS IN CLEAN WATER
Zinc as Zn by ICPMS	41.0	µg/l		U	METALS & CATS IN CLEAN WATER
Lead as Pb by ICPMS	1.83	µg/l	Max 10.00 µg/l	U	METALS & CATS IN CLEAN WATER

<u>Nutrients &amp; other Anions</u>	<u>Result</u>	<u>Unit</u>	<u>PCV</u>	<u>Notes</u>	<u>Method Reference</u>
Nitrogen(Total)Oxidised as NO3 by Colorimetry	<1.60	mg/l		U <	NUTRIENTS IN CLEAN WATER
Ammonium as NH4 by Colorimetry	0.01	mg/l	Max 0.50 mg/l	U	NUTRIENTS IN CLEAN WATER
Nitrate as NO3 by Calculation	<1.60	mg/l	Max 50.00 mg/l	U <	CALCULATION
Nitrite as NO2 by Colorimetry	<0.01	mg/l	Max 0.50 mg/l	U <	NUTRIENTS IN CLEAN WATER
Chloride as Cl- by Colorimetry	61	mg/l	Max 250.00 mg/l	U	NUTRIENTS IN CLEAN WATER
Phosphorus as P by ICPMS	<15	µg/l		U <	METALS & CATS IN CLEAN WATER
Fluoride as F by Ion-Selective Electrode	0.289	mg/l	Max 1.50 mg/l	U	FLUORIDE
Sulphate(Dissolved) as SO4 by ICPMS	21.9	mg/l	Max 250.00 mg/l	U	METALS & CATS IN CLEAN WATER

Comments

None

**KEY TO ABBREVIATIONS AND NOTES**

1 Time analysis started was 19-Jun-2014 16:36.

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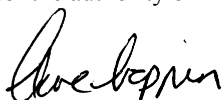
## KEY TO ABBREVIATIONS AND NOTES

- 2 Time analysis started was 19-Jun-2014 16:49.
- 3 Time analysis started was 19-Jun-2014 16:48.
- 4 Time analysis started was 20-Jun-2014 14:14.
- < Result less than reported value ie: is below the Limit of Detection for that method
- U Analysis is UKAS accredited
- N Analysis is not accredited

## LIMIT DESCRIPTION

PCV 'Prescribed Concentration or Value' are the recommended limits for drinking water set by the Drinking Water Inspectorate. They are generally maximum values above which the water would be deemed to have failed the standard

Under the authority of



Claire Coppin  
Laboratory Services Manager

*Details of date(s) analysis commenced, analytical methods and estimated uncertainty of results are available from the Laboratory address above. The results are given for the sample as received by the laboratory. Sampling is outside the scope of UKAS accreditation. Opinions and interpretations are outside the scope of UKAS accreditation. This Certificate of Analysis shall not be reproduced except in full, without the written approval of the laboratory. The validity of results with 'Associated Deviations' on the Certificate of Analysis may be compromised. The validity of results may be compromised when a result is highlighted on the Certificate of Analysis as analysed or received outside sample stability time or is missing a date and time of sampling. Stability times have not been allocated to calculated results. Validity of calculated results may be compromised if an associated analysis on your C of A has been analysed outside of its recommended stability time.*

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