

## **Data Summary Tables for United Utilities Water Plc (UU)**

These tables contain a summary of results of monitoring undertaken by the water company in 2009 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled 'Drinking water 2009'.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.gov.uk>

### **Notes relating to the interpretation of the tables : -**

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

Published 1 July 2010  
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## Viewing Site Summary Data for United Utilities Water Plc

Report Date Range: For the whole year 2009

**Table UU 1: Quality of water leaving treatment works - European Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite (Works)	A013B	0.1 mg NO <sub>2</sub> /l	827	1	< 0.0032	< 0.0095	1
<b>Totals:</b>			<b>827</b>	<b>1</b>			

**Table UU 2: Quality of water leaving treatment works - National Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Coliform Bacteria	C001	0 number/100 ml	16,569	14	0	0	12
Cryptosporidium	C111	-(n/a)	6,500				
E Coli	C002	0 number/100 ml	16,569	3	0	0	2
<b>Totals:</b>			<b>39,627</b>	<b>17</b>			

**Table UU 3: Quality of water leaving treatment works - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	16,550	N/A	0	4
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	16,551	N/A	0	3
Residual Disinfectant - Free	C009	No abnormal change	16,582	N/A	0.24	1.47
Residual Disinfectant - Total	C010	No abnormal change	16,582	N/A	0.28	1.54
Combined Chlorine/Residual Disinfectant Combined*	n/a	n/a	(16582)	N/A	0	0.2
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	16,547	7	< 0.04	0.39
<b>Totals:</b>			<b>82,812</b>	<b>7</b>		

\*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

**Table UU 4: Quality of water leaving service reservoirs - National Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	19,887	19	0	0	0
E Coli	C002	0 number/100 ml	19,887	0	0	0	0
<b>Totals:</b>			<b>39,774</b>	<b>19</b>			

**Table UU 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	19,874	N/A	0	14
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	19,871	N/A	0	3
Residual Disinfectant - Free	C009	No abnormal change	19,934	N/A	0.07	1.21
Residual Disinfectant - Total	C010	No abnormal change	19,934	N/A	0.12	1.27
Combined Chlorine/Residual Disinfectant Combined*	n/a	n/a	19,934	N/A	0.01	0.19
<b>Totals:</b>			<b>79,613</b>	<b>0</b>		

\*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters Residual Disinfectant - Total minus Residual Disinfectant - Free.

Table UU 6: Quality of water leaving bulk supply points - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
1,2 Dichloroethane	F001	3 µg/l	790	0	< 0.0753	< 0.103	0
Benzene	F002	1 µg/l	796	0	< 0.0311	< 0.0349	0
Boron	D005A	1 mg B/l	763	0	< 0.0021	0.068136	0
Cyanide	B003	50 µg CN/l	758	0	< 0.5577	2.0151	0
Mercury	B005	1 µg Hg/l	764	0	< 0.01	0.10205	0
Pesticides - Total Substances	B010	0.5 µg/l	3,167	0	0	0.025592	0
Pesticides 2,4,5-T	P076	0.1 µg/l	915	0	< 0.01	< 0.01	0
Pesticides 2,4,-Db	P082	0.1 µg/l	914	0	< 0.01	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	919	0	< 0.01	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	1,043	0	< 0.002	< 0.002	0
Pesticides Asulam	P133	0.1 µg/l	212	0	< 0.01	< 0.01	0
Pesticides Atrazine	P004	0.1 µg/l	905	0	< 0.01	< 0.01	0
Pesticides Carbendazim	P150	0.1 µg/l	798	0	< 0.01	< 0.01	0
Pesticides Carbetamide	P010	0.1 µg/l	39	0	< 0.01	< 0.0104	0
Pesticides Chloromequat	P163	0.1 µg/l	143	0	< 0.01	< 0.04056	0
Pesticides Chlorothalonil	P015	0.1 µg/l	32	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	810	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	64	0	< 0.01	< 0.0147	0
Pesticides Cyanazine	P092	0.1 µg/l	780	0	< 0.01	< 0.01	0
Pesticides Diazinon	P024	0.1 µg/l	874	0	< 0.01	< 0.01	0
Pesticides Dicamba	P025	0.1 µg/l	918	0	< 0.01	< 0.0147	0
Pesticides Dichlorprop	P026	0.1 µg/l	918	0	< 0.01	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	1,026	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	809	0	< 0.01	< 0.01	0
Pesticides Ethofumersate	P221	0.1 µg/l	863	0	< 0.01	< 0.0161	0
Pesticides Fluroxypyr	P040	0.1 µg/l	317	0	< 0.01	< 0.01	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	851	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	606	0	< 0.006	< 0.02	0
Pesticides Heptachlor	P043	0.03 µg/l	1,047	0	< 0.001	< 0.001	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	1,072	0	< 0.003	< 0.003	0
Pesticides Ioxynil	P049	0.1 µg/l	920	0	< 0.01	< 0.01	0
Pesticides Isoproturon	P048	0.1 µg/l	815	1	< 0.01	< 0.01	1
Pesticides Linuron	P051	0.1 µg/l	808	0	< 0.01	< 0.01	0

Pesticides MCPA	P054	0.1 µg/l	916	1	< 0.01	0.03	1
Pesticides MCPB	P055	0.1 µg/l	465	0	< 0.01	< 0.0121	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	924	1	< 0.01	0.02	1
Pesticides Metaldehyde	P226	0.1 µg/l	99	0	< 0.01	0.02	0
Pesticides Metazachlor	P203	0.1 µg/l	30	0	< 0.01	< 0.01	0
Pesticides Propetamphos	P069	0.1 µg/l	821	0	< 0.01	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	862	0	< 0.01	< 0.0157	0
Pesticides Trichlopyr	P131	0.1 µg/l	918	0	< 0.01	< 0.01	0
Pesticides Triforine	P225	0.1 µg/l	818	0	< 0.01	< 0.01	0
<b>Totals:</b>			<b>32,309</b>	<b>3</b>			

**Table UUT 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Chloride (Indicator)	D002A	250 mg Cl/l	739	0	4.972	122
Gross Alpha Activity	F004	0.1 Bq/l	657	0	< 0.012	0.05384
Gross Beta Activity	F005	1 Bq/l	657	0	0.04132	0.27842
Sulphate (Indicator)	A007	250 mg SO4/l	766	0	2.3301	123.65
Total organic carbon (indicator)	A017	No abnormal change	835	N/A	0.2036	2.3164
Tritium (Indicator)	F006	100 Bq/l	67	0	< 4	5.3
<b>Totals:</b>			<b>3,721</b>	<b>0</b>		

**Table UU 9: Quality of water at consumer's tap (zones) - European Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones with failures
1,2 Dichloroethane	F001	3 µg/l	10	0	< 0.0753	< 0.103	0
Antimony	B008A	5 µg Sb/l	2,071	0	< 0.03	0.28	0
Arsenic	B001A	10 µg As/l	2,070	0	0.09	2.2529	0
Benzene	F002	1 µg/l	10	0	< 0.0311	< 0.0349	0
Benzo (a) Pyrene	D007	0.01 µg/l	2,204	5	< 0.002	< 0.002	5
Boron	D005A	1 mg B/l	9	0	< 0.0021	0.0099	0
Bromate	F003	10 µg BrO3/l	2,106	0	< 0.233	3.8272	0
Cadmium	B002	5 µg Cd/l	2,071	0	< 0.02	0.13	0
Chromium	B004	50 µg Cr/l	2,071	0	< 0.16	1.8528	0
Copper	A024A	2 mg Cu/l	2,107	0	0.001008	0.21928	0
Cyanide	B003	50 µg CN/l	9	0	< 0.698	< 0.698	0
E Coli	C002	0 number/100 ml	18,124	4	0	0	4
Enterococci	C003	0 number/100 ml	2,115	0	0	0	0
Fluoride	A027	1.5 mg F/l	2,070	0	< 0.01	0.73	0
Lead	B007A	25 µg Pb/l	2,109	9	< 0.12	11.36	8
Mercury	B005	1 µg Hg/l	9	0	< 0.01	< 0.0175	0
Nickel	B006A	20 µg Ni/l	2,112	3	< 0.26	6.161	3
Nitrate	A012	50 mg NO3/l	7,296	0	< 0.443	24.8	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	7,295	0	0.008	0.49508	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	7,296	0	< 0.0032	< 0.0095	0
Pesticides - Total Substances	B010	0.5 µg/l	23	0	0	0.024	0
Pesticides 2,4,5-T	P076	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides 2,4,-Db	P082	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	11	0	< 0.002	< 0.002	0
Pesticides Atrazine	P004	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Carbendazim	P150	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	12	0	< 0.01	< 0.01	0
Pesticides Cyanazine	P092	0.1 µg/l	8	0	< 0.01	< 0.01	0
Pesticides Diazinon	P024	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Dicamba	P025	0.1 µg/l	11	0	< 0.01	< 0.0147	0
Pesticides Dichlorprop	P026	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	11	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	10	0	< 0.01	< 0.01	0

Pesticides Ethofumersate	P221	0.1 µg/l	10	0	< 0.01	< 0.0161	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Heptachlor	P043	0.03 µg/l	10	0	< 0.001	< 0.001	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	11	0	< 0.003	< 0.003	0
Pesticides Ioxynil	P049	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Isoproturon	P048	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Linuron	P051	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	10	0	< 0.01	0.02	0
Pesticides Propetamphos	P069	0.1 µg/l	8	0	< 0.01	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	10	0	< 0.01	< 0.0157	0
Pesticides Trichlopyr	P131	0.1 µg/l	10	0	< 0.01	< 0.01	0
Pesticides Triforine	P225	0.1 µg/l	11	0	< 0.01	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	2,144	2	0	0.004	2
Selenium	B009	10 µg Se/l	2,071	0	< 0.21	1.2328	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	2,090	0	0	0.52063	0
Total Trihalomethanes	D011	100 µg/l	2,144	0	1.9225	63.575	0
<b>Totals:</b>			<b>71,897</b>	<b>23</b>			

**Table UUT10: Quality of water at consumer's tap (zones) - National Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones with failures
Aluminium	A021	200 µg Al/l	7,205	13	< 2.6	91.964	13
Colour	A001	20 mg/l Pt/Co scale	7,344	1	0.24	2.4955	1
Iron	A022	200 µg Fe/l	7,206	29	< 1.3	112.93	25
Manganese	A023	50 µg Mn/l	7,206	7	< 0.2	9.986	7
Organoleptic Odour	A003	0 Dilution number	4,912	6	0	0	6
Organoleptic Taste	A004	0 Dilution number	4,899	5	0	0	5
Sodium	A009	200 mg Na/l	7,198	0	3.7499	48.702	0
Tetrachloromethane	D008	3 µg/l	2,078	0	< 0.01	0.13	0
Turbidity	A002	4 nephelometric turbidity units	7,340	1	< 0.04	0.5559	1
<b>Totals:</b>			<b>55,388</b>	<b>62</b>			

**Table UU 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Indicator)	A014	0.5 mg NH <sub>4</sub> /l	7,294	0	< 0.0077	< 0.0327
Chloride (Indicator)	D002A	250 mg Cl/l	9	0	4.48	14.2
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	7,187	12	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	18,124	46	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	7,484	N/A	0	34.15
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	7,483	N/A	0	18
Conductivity (Indicator)	D001	2500 µS/cm	3,935	0	53.36	715.64
Gross Alpha Activity	F004	0.1 Bq/l	9	0	< 0.012	0.055
Gross Beta Activity	F005	1 Bq/l	9	0	0.072	0.2
Hydrogen ion (pH)	A006	6.5-9.5 pH Value	7,322	4	6.75	8.2
Residual Disinfectant - Free	C009	No abnormal change	18,239	N/A	0.03	0.96
Residual Disinfectant - Total	C010	No abnormal change	18,239	N/A	0.07	1.02
Combined Chlorine/Residual Disinfectant Combined*	n/a	n/a	18,239	N/A	0	0.25
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	8	0	3.81	37.3
Total organic carbon (indicator)	A017	No abnormal change	9	N/A	0.65	3.98
<b>Totals:</b>			<b>95,351</b>	<b>62</b>		

\*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.