

## **Data summary tables for United Utilities Water Plc (UUT)**

These tables contain a summary of results of monitoring undertaken by the water company in 2013 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 2013*.

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.

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# Site Summary Data for United Utilities Water Plc

Report Date Range: For the whole year 2013

**Table UUT 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	692	0	< 0.0016	< 0.0019	0
<b>Totals:</b>			<b>692</b>	<b>0</b>			

**Table UUT 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	15,731	13	0	0	12
Cryptosporidium	C111	-(n/a)	2,793		0	0	0
E Coli	C002	0 number/100 ml	15,731	0	0	0	0
<b>Totals:</b>			<b>34,255</b>	<b>13</b>			

**Table UUT 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	15,682	-n/a	0	2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	15,683	-n/a	0	1
Residual Disinfectant - Free	C009	No abnormal change	15,741	-n/a	0.25	1.36
Residual Disinfectant - Total	C010	No abnormal change	15,740	-n/a	0.29	1.41
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(15,740)	-(n/a)	0	0.2
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	15,679	5	< 0.07	0.25
<b>Totals:</b>			<b>78,525</b>	<b>5</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 UUT 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	18,336	15	0	0	0
E Coli	C002	0 number/100 ml	18,336	0	0	0	0
<b>Totals:</b>			<b>36,672</b>	<b>15</b>			

**Table UUT 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	18,291	-n/a	0	6
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	18,288	-n/a	0	1
Residual Disinfectant - Free	C009	No abnormal change	18,344	-n/a	0.14	1.05
Residual Disinfectant - Total	C010	No abnormal change	18,344	-n/a	0.2	1.0955
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(18,344)	-(n/a)	0	0.17
<b>Totals:</b>			<b>73,267</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 UUT 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	701	0	< 0.138	< 0.138	0
Benzene	F002	1 µg/l	701	0	< 0.0471	< 0.0471	0
Boron	D005A	1 mg B/l	700	0	< 0.0021	0.07936	0
Cyanide	B003	50 µg CN/l	703	0	< 0.698	2.5068	0
Mercury	B005	1 µg Hg/l	696	0	< 0.01	0.09296	0
Pesticides - Total Substances	B010	0.5 µg/l	1,162	0	0	0.082348	0
Pesticides 2,4-D	P020	0.1 µg/l	197	0	< 0.0074	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	4	0	< 0.001	< 0.002	0
Pesticides Asulam	P133	0.1 µg/l	28	0	< 0.009	< 0.009	0
Pesticides Atrazine	P004	0.1 µg/l	61	0	< 0.01	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	15	0	< 0.01	< 0.01	0
Pesticides Carbendazim	P150	0.1 µg/l	69	0	< 0.01	< 0.01	0
Pesticides Carbetamide	P010	0.1 µg/l	44	0	< 0.0104	< 0.0104	0
Pesticides Chlortoluron	P014	0.1 µg/l	68	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	141	0	< 0.01	< 0.0147	0
Pesticides Diazinon	P024	0.1 µg/l	95	0	< 0.01	< 0.01	0
Pesticides Dicamba	P025	0.1 µg/l	48	0	< 0.01	< 0.0147	0
Pesticides Dichlorprop	P026	0.1 µg/l	69	0	< 0.0081	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	153	0	< 0.003	0.003	0
Pesticides Diuron	P032	0.1 µg/l	44	0	< 0.01	< 0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	68	0	< 0.0091	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	250	0	< 0.001	0.099047	0
Pesticides Heptachlor	P043	0.03 µg/l	4	0	< 0.001	< 0.002	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Ioxynil	P049	0.1 µg/l	14	0	< 0.0062	< 0.01	0
Pesticides Isoproturon	P048	0.1 µg/l	77	0	< 0.01	< 0.01	0
Pesticides Linuron	P051	0.1 µg/l	44	0	< 0.01	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	219	0	< 0.0076	0.07	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	210	1	< 0.0067	0.0656	1
Pesticides Metaldehyde	P226	0.1 µg/l	61	0	< 0.01	0.038	0

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
Pesticides Metazachlor	P203	0.1 µg/l	53	0	< 0.01	0.04	0
Pesticides Simazine	P073	0.1 µg/l	20	0	< 0.0157	< 0.0157	0
Pesticides Trichlopyr	P131	0.1 µg/l	125	0	< 0.0087	0.02	0
<b>Totals:</b>			<b>6,847</b>	<b>1</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	705	0	4.5684	99.91
Gross Alpha Activity	F004	0.1 Bq/l	413	15	< 0.02	0.16302
Gross Beta Activity	F005	1 Bq/l	413	0	< 0.02	0.14386
Sulphate (Indicator)	A007	250 mg SO4/l	698	0	2.4084	131.01
Total organic carbon (indicator)	A017	No abnormal change	702	-n/a	< 0.21	2.4997
Tritium (Indicator)	F006	100 Bq/l	37	0	< 5	< 5.4
<b>Totals:</b>			<b>2,968</b>	<b>15</b>		

**Table UUT 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 failing standard
1,2 Dichloroethane	F001	3 µg/l	9	0	< 0.138	< 0.138	0
Antimony	B008A	5 µg Sb/l	1,762	0	< 0.1	0.2	0
Arsenic	B001A	10 µg As/l	1,763	0	< 0.08	1.9736	0
Benzene	F002	1 µg/l	9	0	< 0.0471	< 0.0471	0
Benzo (a) Pyrene	D007	0.01 µg/l	1,759	1	< 0.002	< 0.002	1
Boron	D005A	1 mg B/l	9	0	0.005	0.0105	0
Bromate	F003	10 µg BrO3/l	1,758	0	< 0.234	2.1841	0
Cadmium	B002	5 µg Cd/l	1,762	0	< 0.02	0.06	0
Chromium	B004	50 µg Cr/l	1,762	0	< 0.04	1.3859	0
Copper	A024A	2 mg Cu/l	1,769	0	< 0.0006	0.156	0
Cyanide	B003	50 µg CN/l	9	0	< 0.698	2.13	0
E Coli	C002	0 number/100 ml	18,342	1	0	0	1
Enterococci	C003	0 number/100 ml	1,794	0	0	0	0
Fluoride	A027	1.5 mg F/l	1,765	0	< 0.01	0.94	0
Lead	B007A	25 µg Pb/l	1,637	3	< 0.05	7.0806	3
Mercury	B005	1 µg Hg/l	9	0	< 0.01	< 0.018	0
Nickel	B006A	20 µg Ni/l	1,769	2	< 0.15	5.02	2
Nitrate	A012	50 mg NO3/l	4,600	0	< 0.859	28.1	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	4,601	0	0.007	0.561	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	4,600	0	< 0.0016	0.0042	0
Pesticides - Total Substances	B010	0.5 µg/l	27	0	0	0.0473	0
Pesticides 2,4-D	P020	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	9	0	< 0.001	< 0.002	0
Pesticides Asulam	P133	0.1 µg/l	9	0	< 0.009	< 0.009	0
Pesticides Atrazine	P004	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Carbendazim	P150	0.1 µg/l	8	0	< 0.01	< 0.01	0
Pesticides Carbetamide	P010	0.1 µg/l	9	0	< 0.0104	< 0.0104	0
Pesticides Chlortoluron	P014	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	9	0	< 0.01	< 0.0147	0
Pesticides Diazinon	P024	0.1 µg/l	9	0	< 0.01	< 0.01	0

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 failing standard
Pesticides Dicamba	P025	0.1 µg/l	9	0	< 0.01	< 0.0147	0
Pesticides Dichlorprop	P026	0.1 µg/l	8	0	< 0.01	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	9	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	8	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	9	0	< 0.0084	< 0.009	0
Pesticides Heptachlor	P043	0.03 µg/l	9	0	< 0.001	< 0.002	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	8	0	< 0.001	< 0.002	0
Pesticides Ioxynil	P049	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Isoproturon	P048	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Linuron	P051	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Metaldehyde	P226	0.1 µg/l	9	0	< 0.01	0.037	0
Pesticides Metazachlor	P203	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	9	0	< 0.0157	< 0.0157	0
Pesticides Trichlopyr	P131	0.1 µg/l	9	0	< 0.0087	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	1,748	0	0	0.00102	0
Selenium	B009	10 µg Se/l	1,762	0	< 0.05	0.75	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	1,773	0	0	0.59732	0
Total Trihalomethanes	D011	100 µg/l	1,773	0	1.6618	56.052	0
<b>Totals:</b>			<b>58,810</b>	<b>7</b>			

**Table UUT 10: 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 failing standard
Aluminium	A021	200 µg Al/l	6,896	5	< 3.31	47.706	5
Colour	A001	20 mg/l Pt/Co scale	6,956	0	< 0.39	2.12	0
Iron	A022	200 µg Fe/l	6,894	15	< 2.15	91.625	15
Manganese	A023	50 µg Mn/l	6,895	7	< 0.13	10.8	6
Organoleptic Odour	A003	0 Dilution number	4,993	12	0	0	12
Organoleptic Taste	A004	0 Dilution number	4,991	12	0	0	12
Sodium	A009	200 mg Na/l	6,893	0	3.3094	55.706	0
Tetrachloromethane	D008	3 µg/l	1,773	0	< 0.0354	< 0.0601	0
Turbidity	A002	4 nephelometric turbidity units	6,957	2	< 0.07	0.3642	1
<b>Totals:</b>			<b>53,248</b>	<b>53</b>			



**Table UUT 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	4,600	0	0.0064	0.0527
Chloride (Indicator)	D002A	250 mg Cl/l	9	0	4.11	22
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	6,908	2	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	18,342	46	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	6,982	-n/a	0	26
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	6,984	-n/a	0	9
Conductivity (Indicator)	D001	2500 µS/cm	3,693	0	44	730.18
Gross Alpha Activity	F004	0.1 Bq/l	9	0	< 0.02	< 0.02
Gross Beta Activity	F005	1 Bq/l	9	0	< 0.02	0.0971
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	6,975	1	6.87	7.97
Residual Disinfectant - Free	C009	No abnormal change	18,399	-n/a	0.09	0.98
Residual Disinfectant - Total	C010	No abnormal change	18,399	-n/a	0.15	1.04
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(18,399)	-(n/a)	0	0.21
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	9	0	7.31	41.6
Total organic carbon (indicator)	A017	No abnormal change	9	-n/a	0.31	2.18
Tritium (Indicator)	F006	100 Bq/l	9	0	< 5	< 5
<b>Totals:</b>			<b>91,336</b>	<b>49</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'.