

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

These tables contain a summary of results of monitoring undertaken by the water company in 2006 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 2006'.

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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Data Summary 2006 for UNITED UTILITIES WATER PLC (UU)

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

Parameter	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	A013B	0.1 mg NO <sub>2</sub> /l	810	0	<0.0026	<0.0065	0
<b>TOTAL</b>	-	-	<b>810</b>	<b>0</b>	-	-	-

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

Parameter	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	17659	7	0	0	6
Cryptosporidium	C111	ooocysts >1 in10 litres	5829	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	17659	1	0	0	1
<b>TOTAL</b>	-	-	<b>41147</b>	<b>8</b>	-	-	-

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

Indicator Parameter	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	C007	No abnormal change	17651	n/a	0	4
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	17651	n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	17670	n/a	0.15	1.46
Residual Disinfectant - Total	C010	No abnormal change	17670	n/a	0.19	1.56
Turbidity	A002A	1 NTU	17596	11	<0.04	0.4
<b>TOTAL</b>	-	-	<b>88238</b>	<b>11</b>	-	-

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

Parameter	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	20129	20	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	20130	5	0	0	5
<b>TOTAL</b>	-	-	<b>40259</b>	<b>25</b>	-	-	-

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

Indicator Parameter	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	C007	No abnormal change	20122	n/a	0	18
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	20121	n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	20138	n/a	0.03	1.14
Residual Disinfectant - Total	C010	No abnormal change	20138	n/a	0.09	1.24
<b>TOTAL</b>	-	-	<b>80519</b>	<b>0</b>	-	-

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

Parameter	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	774	1	<0.01	0.12	1
Benzene	F002	1 µg/l	777	1	<0.0337	<0.07	1
Boron	D005A	1 mg B/l	771	0	<0.0021	0.073788	0
Cyanide	B003	50 µg CN/l	769	0	<0.54	0.907	0
Mercury	B005	1 µg Hg/l	771	0	<0.01	0.10428	0
Pesticides (2,4,5-T)	P076	µg/l	777	0	<0.01	<0.01	0
Pesticides (2,4,-Db)	P082	µg/l	776	0	<0.01	<0.01	0
Pesticides (2,4-D)	P020	µg/l	778	0	<0.01	<0.01	0
Pesticides (Aldrin)	P002	µg/l	931	0	<0.001	<0.003	0
Pesticides (Atrazine)	P004	µg/l	801	0	<0.01	0.01	0
Pesticides (Bromoxynil)	P008	µg/l	773	0	<0.01	<0.01	0
Pesticides (Carbendazim)	P150	µg/l	807	0	<0.01	<0.01	0
Pesticides (Carbofuran)	P087	µg/l	807	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	P014	µg/l	807	0	<0.01	<0.01	0
Pesticides (Cyanazine)	P092	µg/l	807	0	<0.01	<0.01	0
Pesticides (Diazinon)	P024	µg/l	923	0	<0.005	<0.01	0
Pesticides (Dicamba)	P025	µg/l	773	0	<0.01	<0.01	0
Pesticides (Dichlorprop)	P026	µg/l	779	0	<0.01	<0.01	0
Pesticides (Dieldrin)	P028	µg/l	939	0	<0.002	<0.003	0
Pesticides (Diuron)	P032	µg/l	803	3	<0.01	<0.01	3
Pesticides (Ethofumersate)	P221	µg/l	854	0	<0.01	<0.01	0
Pesticides (Gamma-HCH (Lindane))	P041	µg/l	940	0	<0.01	<0.01	0
Pesticides (Heptachlor)	P043	µg/l	935	0	<0.001	<0.003	0
Pesticides (Heptachlor epoxide)	P044	µg/l	931	0	<0.002	<0.003	0
Pesticides (Ioxynil)	P049	µg/l	774	0	<0.01	<0.01	0
Pesticides (Isoproturon)	P048	µg/l	807	0	<0.01	<0.01	0
Pesticides (Linuron)	P051	µg/l	807	0	<0.01	<0.01	0
Pesticides (MCPA)	P054	µg/l	778	0	<0.01	0.01	0
Pesticides (MCPP(Mecoprop))	P053	µg/l	779	0	<0.01	0.01	0
Pesticides (Metazachlor)	P203	µg/l	806	0	<0.01	<0.01	0
Pesticides (Methiocarb)	P056	µg/l	803	0	<0.01	<0.01	0
Pesticides (Phenmedipham)	P224	µg/l	784	0	<0.01	<0.01	0
Pesticides (Propetamphos)	P069	µg/l	908	0	<0.004	<0.01	0
Pesticides (Propyzamide)	P071	µg/l	879	0	<0.01	<0.01	0

Pesticides (Simazine)	P073	µg/l	853	0	<0.01	<0.01	0
Pesticides (Trichlopyr)	P131	µg/l	778	0	<0.01	<0.01	0
Pesticides (Triforine)	P225	µg/l	796	0	<0.01	<0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	1431	0	0	0.030136	0
<b>TOTAL</b>	-	-	<b>31786</b>	<b>5</b>	-	-	-

**Table UUT 7: Quality of water leaving bulk supply points - Additional Monitoring Requirements**

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Radioactivity - Gross Alpha	F004	0.1 Bq/l	474	0	<0.012	0.0605
Radioactivity - Gross Beta	F005	1 Bq/l	471	0	0.034	0.26956
Radioactivity - Tritium	F006	100 Bq/l	11	0	<4	<4
Sulphate	A007	250 mg SO <sub>4</sub> /l	777	0	3.834	122.88
Total Organic Carbon (TOC)	A017	No abnormal change	771	n/a	0.24	2.8696
<b>TOTAL</b>	-	-	<b>2504</b>	<b>0</b>	-	-

**Table UUT 8: Quality of water at consumer's tap (zones) - European Standards**

Parameter	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	11	0	<0.0409	<0.09	0
Antimony	B008A	5 µg Sb/l	2213	0	<0.06	0.31	0
Arsenic	B001A	10 µg As/l	2210	0	0.0811	1.5823	0
Benzene	F002	1 µg/l	12	0	<0.0337	<0.07	0
Benzo (a) Pyrene	D007	0.01 µg/l	2324	10	<0.001	0.002	9
Boron	D005A	1 mg B/l	19	0	<0.0021	0.0134	0
Bromate	F003	10 µg BrO <sub>3</sub> /l	2058	12	<0.13	8.2712	12
Cadmium	B002	5 µg Cd/l	2207	0	<0.01	0.14	0
Chromium	B004	50 µg Cr/l	2204	0	<0.06	1.298	0
Copper	A024A	2 mg Cu/l	2063	0	0.0011	0.1898	0
Cyanide	B003	50 µg CN/l	20	0	<0.54	<0.54	0
<i>E. coli</i>	C002	0 number/100 ml	18521	4	0	0	4
Enterococci	C003	0 number/100 ml	2059	0	0	0	0
Fluoride	A027	1.5 mg F/l	2091	0	0.0392	0.83	0
Lead	B007A	25 µg Pb/l	2087	4	<0.13	9.906	4
Mercury	B005	1 µg Hg/l	20	0	<0.01	<0.032	0
Nickel	B006A	20 µg Ni/l	2060	4	<0.15	6.5463	4
Nitrate	A012	50 mg NO <sub>3</sub> /l	7151	0	0.709	25.148	0
Nitrite	A013A	0.5 mg NO <sub>2</sub> /l	7151	1	<0.0026	0.008344	1
Nitrate/Nitrite Formula	A013C	1 mg NO <sub>2</sub> /l	7151	0	0.014	0.50352	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	2257	2	0	0.029	2
Selenium	B009	10 µg Se/l	2203	0	0.08	1.23	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	2165	0	0	0.70734	0
Trihalomethanes (THMs)	D011	100 µg/l	2280	0	1.5162	63.195	0
Pesticides (2,4,5-T)	P076	µg/l	9	0	<0.01	<0.01	0
Pesticides (2,4,-Db)	P082	µg/l	9	0	<0.01	<0.01	0
Pesticides (2,4-D)	P020	µg/l	9	0	<0.01	<0.01	0
Pesticides (Aldrin)	P002	µg/l	12	0	<0.001	<0.003	0
Pesticides (Atrazine)	P004	µg/l	10	0	<0.01	0.01	0
Pesticides (Bromoxynil)	P008	µg/l	9	0	<0.01	<0.01	0
Pesticides (Carbendazim)	P150	µg/l	12	0	<0.01	<0.01	0
Pesticides (Carbofuran)	P087	µg/l	12	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	P014	µg/l	12	0	<0.01	<0.01	0
Pesticides (Cyanazine)	P092	µg/l	12	0	<0.01	<0.01	0
Pesticides (Diazinon)	P024	µg/l	11	0	<0.01	<0.01	0
Pesticides (Dicamba)	P025	µg/l	9	0	<0.01	<0.01	0

Pesticides (Dichlorprop)	P026	µg/l	9	0	<0.01	<0.01	0
Pesticides (Dieldrin)	P028	µg/l	12	0	<0.002	<0.003	0
Pesticides (Diuron)	P032	µg/l	12	0	<0.01	<0.01	0
Pesticides (Ethofumersate)	P221	µg/l	10	0	<0.01	<0.01	0
Pesticides (Gamma-HCH (Lindane))	P041	µg/l	12	0	<0.01	<0.01	0
Pesticides (Heptachlor)	P043	µg/l	12	0	<0.001	<0.003	0
Pesticides (Heptachlor epoxide)	P044	µg/l	12	0	<0.002	<0.003	0
Pesticides (Ioxynil)	P049	µg/l	9	0	<0.01	<0.01	0
Pesticides (Isoproturon)	P048	µg/l	12	0	<0.01	<0.01	0
Pesticides (Linuron)	P051	µg/l	12	0	<0.01	<0.01	0
Pesticides (MCPA)	P054	µg/l	9	0	<0.01	<0.01	0
Pesticides (MCPP(Mecoprop))	P053	µg/l	9	0	<0.01	<0.01	0
Pesticides (Metazachlor)	P203	µg/l	12	0	<0.01	<0.01	0
Pesticides (Methiocarb)	P056	µg/l	12	0	<0.01	<0.01	0
Pesticides (Phenmedipham)	P224	µg/l	11	0	<0.01	<0.01	0
Pesticides (Propetamphos)	P069	µg/l	11	0	<0.01	<0.01	0
Pesticides (Propyzamide)	P071	µg/l	11	0	<0.01	<0.01	0
Pesticides (Simazine)	P073	µg/l	11	0	<0.01	<0.01	0
Pesticides (Trichlopyr)	P131	µg/l	9	0	<0.01	<0.01	0
Pesticides (Triforine)	P225	µg/l	12	0	<0.01	<0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	18	0	0	0.011	0
<b>TOTAL</b>	-	-	<b>72900</b>	<b>37</b>	-	-	-

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

Parameter	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	7210	5	<5.2	75.889	5
Colour	A001	20 mg/l Pt/Co scale	7249	0	<0.615	2.49	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	7362	3	6.73	8.15	3
Iron	A022	200 µg Fe/l	7213	39	<3	162.86	35
Manganese	A023	50 µg Mn/l	7213	11	<0.35	14.7	10
Organoleptic Odour	A003	Dilution no. 3 at 25°C	7184	0	0	0	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	7158	0	0	0	0
Sodium	A009	200 mg Na/l	7174	1	3.9375	52.425	1
Tetrachloromethane	D008	3 µg/l	2138	0	0.02	0.16	0
Turbidity	A002	4 NTUs	7244	4	<0.04	0.5655	4
<b>TOTAL</b>	-	-	<b>67145</b>	<b>63</b>	-	-	-

**Table UUT 10: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements**

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium	A014	0.5 mg NH <sub>4</sub> /l	7150	1	0.0025	0.0578
Chloride	D002A	250 mg Cl/l	7151	0	5.45	108
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	7145	12	0	0
Coliform Bacteria	C001A	0 number/100 ml	18515	54	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	7401	n/a	0	39
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	7400	n/a	0	16
Conductivity	D001	2500 µS/cm	3875	0	57	756.72
Hydrogen ion (pH)	A006A	9.5 pH Value	7362	1	6.73	8.15
Radioactivity - Gross Alpha	F004	0.1 Bq/l	13	0	<0.012	0.028
Radioactivity - Gross Beta	F005	1 Bq/l	13	0	0.04	0.162
Residual Disinfectant - Free	C009	No abnormal change	18601	n/a	0.02	0.93
Residual Disinfectant - Total	C010	No abnormal change	18601	n/a	0.07	1.03
Sulphate	A007	250 mg SO <sub>4</sub> /l	27	0	31.8	49.5
Total Organic Carbon (TOC)	A017	No abnormal change	20	n/a	1.18	1.76
<b>TOTAL</b>	-	-	<b>103274</b>	<b>68</b>	-	-