

## **Data Summary Tables for Dee Valley Water (DVW)**

These tables represent a summary of test results from water samples taken by the water company in 2005 and submitted to the Drinking Water Inspectorate.

These tables are published annually by the Inspectorate as part of the Chief Inspector's Report. They are available on the Inspectorate's website at [www.dwi.gov.uk](http://www.dwi.gov.uk)

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed "Maximum" and "Minimum" contain figures for the 1 percentile and 99 percentile sample results 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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**Table DVW 1: Quality of water leaving service treatment works - European Standards**

**Number of treatment works = 6**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO <sub>2</sub> /l	405	0	<0.01	0.022	0
<b>TOTAL</b>	-	<b>405</b>	<b>0</b>	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	0 number/100 ml	1198	1	0	0	1
Cryptosporidium	Oocyst concentration / 10 l	1113	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	1198	1	0	0	1
<b>TOTAL</b>	-	<b>3509</b>	<b>2</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	1198	36	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	1198	14	0	13
Residual Disinfectant - Free	No abnormal change	1199	0	0.02	0.6
Residual Disinfectant - Total	No abnormal change	1199	0	0.02	0.65
Turbidity	1 NTU	1158	31	<0.11	1.948
<b>TOTAL</b>	-	<b>5952</b>	<b>81</b>	-	-

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

Number of service reservoirs = 32

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	1662	2	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	1662	0	0	0	0
<b>TOTAL</b>	-	-	<b>3324</b>	<b>2</b>	-	-	-

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1662	0	140
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1662	0	24
Residual Disinfectant - Free	C009	No abnormal change	1662	<0.02	0.45
Residual Disinfectant - Total	C010	No abnormal change	1663	<0.02	0.55
<b>TOTAL</b>	-	-	<b>6649</b>	-	-

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

Number of supply points = 6

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	48	0	<0.2	<0.2	0
Benzene	1 µg/l	48	0	<0.05	<0.05	0
Boron	1 mg B/l	48	0	<0.006	0.056	0
Bromate	10 µg BrO <sub>3</sub> /l	48	0	<0.6	1.1	0
Cyanide	50 µg CN/l	48	0	<2.1	14.2	0
Fluoride	1.5 mg F/l	48	0	0.02	1.18	0
Mercury	1 µg Hg/l	48	0	0	<0.1	0
Tetrachloroethene/Trichloroethene	10 µg/l	48	0	<0.2	<0.24	0
Pesticides (2,4,-Db)	0.1 µg/l	48	0	<0.007	<0.007	0
Pesticides (2,4-D)	0.1 µg/l	48	0	<0.003	0.018	0
Pesticides (Aldrin)	0.03 µg/l	48	0	<0.009	<0.009	0
Pesticides (Asulam)	0.1 µg/l	51	0	<0.02	<0.02	0
Pesticides (Atrazine)	0.1 µg/l	48	0	<0.001	0.039	0
Pesticides (Bromoxynil)	0.1 µg/l	48	0	<0.008	<0.008	0
Pesticides (Carbendazim)	0.1 µg/l	48	0	<0.04	<0.04	0
Pesticides (Chlorothalonil)	0.1 µg/l	48	0	<0.007	<0.007	0
Pesticides (Dicamba)	0.1 µg/l	48	0	<0.01	<0.01	0
Pesticides (Dichlobenil)	0.1 µg/l	48	0	<0.002	<0.002	0
Pesticides (Dieldrin)	0.03 µg/l	48	0	<0.004	<0.004	0
Pesticides (Diuron)	0.1 µg/l	48	0	<0.004	0.035	0
Pesticides (Fenpropidin)	0.1 µg/l	48	0	<0.007	<0.007	0
Pesticides (Fenpropimorph)	0.1 µg/l	48	0	<0.007	<0.007	0
Pesticides (Heptachlor)	0.03 µg/l	48	0	<0.004	<0.004	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	48	0	<0.007	<0.007	0
Pesticides (Isoproturon)	0.1 µg/l	48	0	<0.002	0.041	0
Pesticides (MCPA)	0.1 µg/l	48	0	0	0.02	0
Pesticides (MCPB)	0.1 µg/l	48	0	<0.007	<0.018	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	48	0	<0.004	<0.01	0
Pesticides (Pendimethalin)	0.1 µg/l	48	0	<0.01	<0.01	0
Pesticides (Simazine)	0.1 µg/l	48	0	<0.001	0.005	0
Pesticides (Tecnazene)	0.1 µg/l	48	0	<0.004	<0.004	0
Pesticides (Trietazine)	0.1 µg/l	48	0	<0.002	<0.002	0
Pesticides (Trifluralin)	0.1 µg/l	48	0	<0.007	<0.007	0
Pesticides - Total Substances	0.5 µg/l	48	0	0	0.09	0
<b>TOTAL</b>	-	<b>1635</b>	<b>0</b>	-	-	-

**Table DVW 7: Quality of water leaving bulk supply points - National Standards**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	3 µg/l	48	0	<0.1	<0.1	0
<b>TOTAL</b>	-	<b>48</b>	<b>0</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Chloride	250 mg Cl/l	48	0	5.7	61.3
<i>Clostridium perfringens</i>	0 number/100 ml	321	0	0	0
Conductivity	2500 µS/cm	319	0	77.8	619.4
Radioactivity - Gross Alpha	0.1 Bq/l	48	0	0	0.1
Radioactivity - Gross Beta	1 Bq/l	48	0	0.02	<1
Radioactivity - Tritium	100 Bq/l	51	0	<10	<40
Sulphate	250 mg SO <sub>4</sub> /l	48	0	<0.4	57.4
Total Organic Carbon (TOC)	No abnormal change	48	0	0.4	3.1
<b>TOTAL</b>	-	<b>931</b>	<b>0</b>	-	-

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

Number of zones = 18

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	4	0	<0.2	<0.2	0
Antimony	5 µg Sb/l	130	0	<0.2	2.069	0
Arsenic	10 µg As/l	130	0	0.1	7.507	0
Benzene	1 µg/l	4	0	<0.05	<0.05	0
Benzo (a) Pyrene	0.01 µg/l	131	0	<0.001	0.001	0
Boron	1 mg B/l	4	0	<0.007	0.03	0
Bromate	10 µg BrO <sub>3</sub> /l	58	0	<0.6	3	0
Cadmium	5 µg Cd/l	130	0	0	0.255	0
Chromium	50 µg Cr/l	130	0	0.1	1.2	0
Copper	2 mg Cu/l	131	0	<0.002	0.673	0
Cyanide	50 µg CN/l	4	0	3	7.2	0
<i>E. coli</i>	0 number/100 ml	759	0	0	0	0
Enterococci	0 number/100 ml	131	0	0	0	0
Fluoride	1.5 mg F/l	4	0	<0.02	0.06	0
Lead	25 µg Pb/l	131	1	<0.2	60.784	1
Mercury	1 µg Hg/l	4	0	<0.1	<0.1	0
Nickel	20 µg Ni/l	130	0	<0.5	8.151	0
Nitrate	50 mg NO <sub>3</sub> /l	207	0	<0.6	16.276	0
Nitrite	0.5 mg NO <sub>2</sub> /l	207	0	<0.01	0.163	0
Nitrate/Nitrite Formula	≤ 1	207	0	0.01	<1	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	131	0	<0.004	<0.006	0
Selenium	10 µg Se/l	130	0	<0.3	3.691	0
Tetrachloroethene/Trichloroethene	10 µg/l	4	0	<0.2	<0.2	0
Trihalomethanes (THMs)	100 µg/l	131	0	<4	62.092	0
Pesticides (2,4,-Db)	0.1 µg/l	4	0	<0.007	<0.007	0
Pesticides (2,4-D)	0.1 µg/l	4	0	<0.004	<0.004	0
Pesticides (Aldrin)	0.03 µg/l	4	0	<0.009	<0.009	0
Pesticides (Asulam)	0.1 µg/l	4	0	<0.02	<0.02	0
Pesticides (Atrazine)	0.1 µg/l	4	0	<0.001	<0.001	0
Pesticides (Bromoxynil)	0.1 µg/l	4	0	<0.008	<0.008	0
Pesticides (Carbendazim)	0.1 µg/l	4	0	<0.04	<0.04	0
Pesticides (Chlorothalonil)	0.1 µg/l	4	0	<0.007	<0.007	0
Pesticides (Dicamba)	0.1 µg/l	4	0	<0.01	<0.01	0
Pesticides (Dichlobenil)	0.1 µg/l	4	0	<0.002	0.003	0
Pesticides (Dieldrin)	0.03 µg/l	4	0	<0.004	<0.004	0

Pesticides (Diuron)	0.1 µg/l	4	0	<0.004	<0.004	0
Pesticides (Fenpropidin)	0.1 µg/l	4	0	<0.007	<0.007	0
Pesticides (Fenpropimorph)	0.1 µg/l	4	0	<0.007	<0.007	0
Pesticides (Heptachlor)	0.03 µg/l	4	0	<0.004	<0.004	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	4	0	<0.007	<0.007	0
Pesticides (Isoproturon)	0.1 µg/l	4	0	<0.002	<0.002	0
Pesticides (MCPA)	0.1 µg/l	4	0	<0.01	<0.01	0
Pesticides (MCPB)	0.1 µg/l	4	0	<0.007	<0.007	0
Pesticides (MCP(Prop))	0.1 µg/l	4	0	<0.004	<0.004	0
Pesticides (Pendimethalin)	0.1 µg/l	4	0	<0.01	<0.01	0
Pesticides (Simazine)	0.1 µg/l	4	0	<0.001	<0.001	0
Pesticides (Tecnazene)	0.1 µg/l	4	0	<0.004	<0.004	0
Pesticides (Trietazine)	0.1 µg/l	4	0	<0.002	<0.002	0
Pesticides (Trifluralin)	0.1 µg/l	4	0	<0.007	<0.007	0
Pesticides - Total Substances	0.5 µg/l	4	0	<0.04	<0.04	0
<b>TOTAL</b>	-	<b>3136</b>	<b>1</b>	-	-	-

**Table DVW 10: Quality of water at consumer's tap (zones) - National Standards**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/l	329	0	<7.3	157.4	0
Colour	20 mg/l Pt/Co scale	329	0	<1.5	4.04	0
Hydrogen ion (pH)	6.5 - 10 pH value	330	0	7.031	8.5	0
Iron	200 µg Fe/l	329	0	<7	89.5	0
Manganese	50 µg Mn/l	329	0	<1	28.8	0
Organoleptic Odour	Dilution No. 3 at 25°C	334	0	0	0	0
Organoleptic Taste	Dilution No. 3 at 25°C	334	0	0	0	0
Sodium	200 mg Na/l	130	0	3.8661	30.7	0
Tetrachloromethane	3 µg/l	4	0	<0.1	<0.1	0
Turbidity	4 NTU	319	0	<0.11	0.548	0
<b>TOTAL</b>	-	<b>2767</b>	<b>0</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	0.5 mg NH <sub>4</sub> /l	329	0	<0.01	0.09
Chloride	250 mg Cl/l	4	0	10.6	14.7
<i>Clostridium perfringens</i>	0 number/100 ml	4	0	0	0
Coliform Bacteria	0 number/100 ml	759	6	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	330	5	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	330	7	0	102
Conductivity	2500 µS/cm	4	0	104	122
Hydrogen ion (pH)	9.5 pH Value	330	0	7.031	8.5
Radioactivity - Gross Alpha	0.1 Bq/l	4	0	<0.02	<0.05
Radioactivity - Gross Beta	1 Bq/l	4	0	<0.5	<0.5
Radioactivity - Tritium	100 Bq/l	4	0	<10	<10
Residual Disinfectant - Free	No abnormal change	759	0	<0.02	0.288
Residual Disinfectant - Total	No abnormal change	759	0	<0.02	0.316
Sulphate	250 mg SO <sub>4</sub> /l	4	0	25.2	29.6
Total Organic Carbon (TOC)	No abnormal change	4	0	0.8	2.3
<b>TOTAL</b>	-	<b>3628</b>	<b>18</b>	-	-