

Data Summary Tables for Dee Valley Water (DVW)

These tables contain a summary of results of monitoring undertaken by the water company in 2007 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 2007'.

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 June 26th 2008
Drinking Water Inspectorate
55, Whitehall
London
SW1A 2EY

Enquiries : 020 7270 3370

Data Summary (Q4) for DEE VALLEY WATER PLC

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	A013B	0.1 mg NO ₂ /l	403	0	0.003	0.01388	0
TOTAL	-	-	403	0	-	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	C001	0 number/100 ml	1200	0	0	0	0
Cryptosporidium	C111	oocysts >1 in10 litres	1122	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	1200	0	0	0	0
TOTAL	-	-	3522	0	-	-	-

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1200	N/A	0	11
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1200	N/A	0	5
Residual Disinfectant - Free	C009	No abnormal change	1200	N/A	0.02	0.58
Residual Disinfectant - Total	C010	No abnormal change	1200	N/A	0.03	0.65
Turbidity	A002A	1 NTU	1199	30	<0.04	1.46
TOTAL	-	-	5999	30	-	-

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

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	1620	4	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	1620	1	0	0	1
TOTAL	-	-	3240	5	-	-	-

Table DVW 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	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1620	N/A	0	237
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1620	N/A	0	4
Residual Disinfectant - Free	C009	No abnormal change	1624	N/A	<0.02	0.65
Residual Disinfectant - Total	C010	No abnormal change	1624	N/A	<0.02	0.7375
TOTAL	-	-	6488	0	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	F001	3 µg/l	48	0	<0.05	<0.2	0
Benzene	F002	1 µg/l	48	0	<0.02	<0.05	0
Boron	D005A	1 mg B/l	48	0	<0.003	0.027	0
Bromate	F003	10 µg BrO ₃ /l	48	0	<0.1	<1.1	0
Cyanide	B003	50 µg CN/l	48	0	<0.4	6.4	0
Fluoride	A027	1.5 mg F/l	48	0	<0.02	0.14	0
Mercury	B005	1 µg Hg/l	48	0	<0.1	<0.4	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	48	0	0	0.4	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	48	0	<0.007	<0.01	0
Pesticides (Aldrin)	P002	0.03 µg/l	48	0	<0.001	<0.009	0
Pesticides (Asulam)	P133	0.1 µg/l	48	0	<0.01	<0.02	0
Pesticides (Atrazine)	P004	0.1 µg/l	48	0	<0.001	0.015	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	48	0	<0.008	<0.01	0
Pesticides (Chlormequat)	P163	0.1 µg/l	48	0	<0.01	<0.1	0
Pesticides (Chlorothalonil)	P015	0.1 µg/l	48	0	<0.007	<0.04	0
Pesticides (Clopyralid)	P018	0.1 µg/l	48	0	<0.01	0.019	0
Pesticides (Diazinon)	P024	0.1 µg/l	48	0	<0.002	<0.01	0
Pesticides (Dieldrin)	P028	0.03 µg/l	49	0	<0.002	<0.005	0
Pesticides (Epoxyconazole)	P217	0.1 µg/l	48	0	<0.006	<0.01	0
Pesticides (Fenpropimorph)	P037	0.1 µg/l	48	0	<0.007	<0.01	0
Pesticides (Fluroxypyr)	P040	0.1 µg/l	48	0	0.003	0.025	0
Pesticides (Flusilazole)	P159	0.1 µg/l	48	0	<0.004	<0.01	0
Pesticides (Heptachlor)	P043	0.03 µg/l	48	0	<0.001	<0.005	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	49	0	<0.002	<0.007	0
Pesticides (Isoproturon)	P048	0.1 µg/l	50	1	<0.002	0.11	1
Pesticides (Linuron)	P051	0.1 µg/l	51	0	<0.003	<0.01	0
Pesticides (MCPA)	P054	0.1 µg/l	48	0	<0.003	0.03	0
Pesticides (MCPB)	P055	0.1 µg/l	48	0	<0.007	<0.01	0
Pesticides (MCPP(Mecoprop))	P053	0.1 µg/l	48	0	<0.004	<0.01	0
Pesticides (Pendimethalin)	P118	0.1 µg/l	48	0	<0.01	0.01	0
Pesticides (Propetamphos)	P069	0.1 µg/l	48	0	<0.002	<0.01	0
Pesticides (Trichlopyr)	P131	0.1 µg/l	48	0	<0.003	0.012	0
Pesticides (Trifluralin)	P081	0.1 µg/l	48	0	<0.007	<0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	48	0	0	0.04	0
TOTAL	-	-	1639	1	-	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	D008	3 µg/l	48	0	<0.05	<0.1	0
TOTAL	-	-	48	0	-	-	-

Table DVW 8: 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	Minimum	Maximum
Chloride	D002A	250 mg Cl/l	48	0	8.7	62.5
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	306	4	0	1
Conductivity	D001	2500 µS/cm	306	0	81	633.86
Radioactivity - Gross Alpha	F004	0.1 Bq/l	48	0	<0.012	0.07
Radioactivity - Gross Beta	F005	1 Bq/l	48	0	0.01	0.223
Sulphate	A007	250 mg SO ₄ /l	48	0	13.7	67
Total Organic Carbon (TOC)	A017	No abnormal change	48	N/A	0.3	3
TOTAL	-	-	852	4	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	F001	3 µg/l	4	0	<0.05	<0.2	0
Antimony	B008A	5 µg Sb/l	132	0	<0.033	0.867	0
Arsenic	B001A	10 µg As/l	132	0	0.1	7.402	0
Benzene	F002	1 µg/l	4	0	<0.02	<0.05	0
Benzo (a) Pyrene	D007	0.01 µg/l	133	1	<0.0004	<0.0086	1
Boron	D005A	1 mg B/l	4	0	0.007	0.008	0
Bromate	F003	10 µg BrO ₃ /l	84	0	<0.2	<1.1	0
Cadmium	B002	5 µg Cd/l	132	0	<0.0133	0.1867	0
Chromium	B004	50 µg Cr/l	132	0	0.1	1.735	0
Copper	A024A	2 mg Cu/l	132	0	<0.001	0.70829	0
Cyanide	B003	50 µg CN/l	4	0	<0.4	3.1	0
<i>E. coli</i>	C002	0 number/100 ml	774	0	0	0	0
Enterococci	C003	0 number/100 ml	132	0	0	0	0
Fluoride	A027	1.5 mg F/l	4	0	0.02	0.04	0
Lead	B007A	25 µg Pb/l	132	0	<0.1	18.213	0
Mercury	B005	1 µg Hg/l	4	0	<0.1	0.1	0
Nickel	B006A	20 µg Ni/l	132	0	<0.5	13.771	0
Nitrate	A012	50 mg NO ₃ /l	208	0	0.8153	17.565	0
Nitrite	A013A	0.5 mg NO ₂ /l	208	0	0.003	0.27646	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	208	0	0.02	0.3573	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	132	0	0	0.01874	0
Selenium	B009	10 µg Se/l	132	0	0.2	1.837	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	4	0	0	<0.2	0
Trihalomethanes (THMs)	D011	100 µg/l	131	0	0	68.3	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	4	0	<0.007	<0.01	0
Pesticides (Aldrin)	P002	0.03 µg/l	4	0	<0.002	<0.009	0
Pesticides (Asulam)	P133	0.1 µg/l	4	0	<0.01	<0.02	0
Pesticides (Atrazine)	P004	0.1 µg/l	4	0	<0.001	<0.003	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	4	0	<0.008	<0.01	0
Pesticides (Chlormequat)	P163	0.1 µg/l	4	0	<0.01	<0.1	0
Pesticides (Chlorothalonil)	P015	0.1 µg/l	4	0	<0.01	<0.011	0
Pesticides (Clopyralid)	P018	0.1 µg/l	4	0	<0.01	<0.01	0
Pesticides (Diazinon)	P024	0.1 µg/l	4	0	<0.002	<0.01	0
Pesticides (Dieldrin)	P028	0.03 µg/l	4	0	<0.003	<0.005	0
Pesticides (Epoxyconazole)	P217	0.1 µg/l	4	0	<0.006	<0.01	0
Pesticides (Fenpropimorph)	P037	0.1 µg/l	4	0	<0.007	<0.01	0
Pesticides (Fluroxypyr)	P040	0.1 µg/l	4	0	<0.004	<0.01	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Pesticides (Flusilazole)	P159	0.1 µg/l	4	0	<0.004	<0.01	0
Pesticides (Heptachlor)	P043	0.03 µg/l	4	0	<0.001	<0.005	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	4	0	<0.003	<0.007	0
Pesticides (Isoproturon)	P048	0.1 µg/l	4	0	<0.002	<0.01	0
Pesticides (Linuron)	P051	0.1 µg/l	4	0	<0.01	<0.01	0
Pesticides (MCPA)	P054	0.1 µg/l	4	0	<0.003	<0.01	0
Pesticides (MCPB)	P055	0.1 µg/l	4	0	<0.007	<0.01	0
Pesticides (MCP (Mecoprop))	P053	0.1 µg/l	4	0	<0.004	<0.01	0
Pesticides (Pendimethalin)	P118	0.1 µg/l	4	0	<0.01	<0.01	0
Pesticides (Propetamphos)	P069	0.1 µg/l	4	0	<0.002	<0.006	0
Pesticides (Trichlopyr)	P131	0.1 µg/l	4	0	<0.003	<0.01	0
Pesticides (Trifluralin)	P081	0.1 µg/l	4	0	<0.007	<0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	4	0	0	<0.04	0
TOTAL	-	-	3198	1	-	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	A021	200 µg Al/l	324	2	<2.6	158	2
Colour	A001	20 mg/l Pt/Co scale	324	0	0.3	3.975	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	324	0	6.7	8.675	0
Iron	A022	200 µg Fe/l	324	0	<3	124.75	0
Manganese	A023	50 µg Mn/l	324	0	<1	31.75	0
Organoleptic Odour	A003	Dilution no. 3 at 25°C	325	0	0	0	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	324	0	0	0	0
Sodium	A009	200 mg Na/l	132	0	4.1893	32.067	0
Tetrachloromethane	D008	3 µg/l	4	0	<0.05	<0.1	0
Turbidity	A002	4 NTUs	324	0	<0.04	0.7275	0
TOTAL	-	-	2729	2	-	-	-

Table DVW 11: 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	Minimum	Maximum
Ammonium	A014	0.5 mg NH ₄ /l	324	0	<0.01	0.1125
Chloride	D002A	250 mg Cl/l	4	0	11.7	16.2
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	4	0	0	0
Coliform Bacteria	C001A	0 number/100 ml	774	4	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	324	N/A	0	131
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	324	N/A	0	31
Conductivity	D001	2500 µS/cm	4	0	124	292
Hydrogen ion (pH)	A006A	9.5 pH Value	324	0	6.7	8.675
Radioactivity - Gross Alpha	F004	0.1 Bq/l	4	0	<0.02	<0.03
Radioactivity - Gross Beta	F005	1 Bq/l	4	0	0.02	0.145
Residual Disinfectant - Free	C009	No abnormal change	772	N/A	<0.02	0.35
Residual Disinfectant - Total	C010	No abnormal change	772	N/A	<0.02	0.4
Sulphate	A007	250 mg SO ₄ /l	4	0	32.6	38.3
Total Organic Carbon (TOC)	A017	No abnormal change	4	N/A	1.9	2.7
TOTAL	-	-	3642	4	-	-