

Data Summary Tables for Three Valleys Water (TVW)

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 THREE VALLEYS WATER PLC

Table TVW 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 ₂ /l	997	2	<0.008	0.01	1
TOTAL	-	-	997	2	-	-	-

Table TVW 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	12205	5	0	0	4
Cryptosporidium	C111	oocysts >1 in10 litres	1112	0	<0.01	<0.01	0
<i>E. coli</i>	C002	0 number/100 ml	12205	0	0	0	0
TOTAL	-	-	25522	5	-	-	-

Table TVW 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	12199	n/a	0	39
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	12199	n/a	0	16
Residual Disinfectant - Total	C010	No abnormal change	12202	n/a	0.13	1.06
Turbidity	A002A	1 NTU	12199	10	0.05	0.5
TOTAL	-	-	48799	10	-	-

Table TVW 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	6855	4	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	6855	0	0	0	0
TOTAL	-	-	13710	4	-	-	-

Table TVW 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	6852	n/a	0	885
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	6852	n/a	0	131
Residual Disinfectant - Total	C010	No abnormal change	6853	n/a	0.05	0.6946
TOTAL	-	-	20557	0	-	-

Table TVW 6: 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	528	0	<0.3	<0.3	0
Antimony	B008A	5 µg Sb/l	528	0	<0.2	0.53113	0
Arsenic	B001A	10 µg As/l	528	0	<1	2.2831	0
Benzene	F002	1 µg/l	528	0	<0.1	<0.1	0
Benzo (a) Pyrene	D007	0.01 µg/l	529	0	<0.0005	0.00084	0
Boron	D005A	1 mg B/l	532	0	<0.1	0.6234	0
Bromate	F003	10 µg BrO ₃ /l	544	0	<0.5	6.315	0
Cadmium	B002	5 µg Cd/l	528	0	<0.2	<0.2	0
Chromium	B004	50 µg Cr/l	528	0	<2	7.4933	0
Copper	A024A	2 mg Cu/l	527	0	<0.01	0.38692	0
Cyanide	B003	50 µg CN/l	527	0	<3	10	0
<i>E. coli</i>	C002	0 number/100 ml	7572	1	0	0	1
Enterococci	C003	0 number/100 ml	528	0	0	0	0
Fluoride	A027	1.5 mg F/l	528	0	0.06629	0.72552	0
Lead	B007A	25 µg Pb/l	532	0	<1	10.904	0
Mercury	B005	1 µg Hg/l	528	0	<0.1	<0.1	0
Nickel	B006A	20 µg Ni/l	527	1	<2	10.772	1
Nitrate	A012	50 mg NO ₃ /l	814	0	<2	43.97	0
Nitrite	A013A	0.5 mg NO ₂ /l	814	0	<0.008	0.25325	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	810	0	0	<0.87956	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	528	0	0	0	0
Selenium	B009	10 µg Se/l	528	0	<1	3.0342	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	528	0	0	6.826	0
Trihalomethanes (THMs)	D011	100 µg/l	528	0	0	56.633	0
Pesticides (2,4-D)	P020	µg/l	527	0	<0.01	0.01	0
Pesticides (Aldrin)	P002	µg/l	527	0	<0.008	<0.008	0
Pesticides (Atrazine)	P004	µg/l	532	0	<0.01	0.0467	0
Pesticides (Bentazone)	P006	µg/l	527	0	<0.01	<0.01	0
Pesticides (Bromacil)	P086	µg/l	40	0	<0.01	<0.01	0
Pesticides (Carbendazim)	P150	µg/l	212	0	<0.01	<0.01	0
Pesticides (Carbetamide)	P010	µg/l	508	0	<0.01	0.02	0
Pesticides (Chlortoluron)	P014	µg/l	537	0	<0.01	0.03	0
Pesticides (Clopyralid)	P018	µg/l	527	0	<0.02	0.0272	0
Pesticides (Cyanazine)	P092	µg/l	532	0	<0.01	0.01	0
Pesticides (Dicamba)	P025	µg/l	527	0	<0.01	<0.01	0
Pesticides (Dichlobenil)	P098	µg/l	275	0	<0.01	<0.01	0

Pesticides (Dichlorprop)	P026	µg/l	527	0	<0.01	<0.01	0
Pesticides (Dieldrin)	P028	µg/l	527	0	<0.008	<0.008	0
Pesticides (Diuron)	P032	µg/l	532	0	<0.01	0.02	0
Pesticides (Fenpropimorph)	P037	µg/l	62	0	<0.02	<0.02	0
Pesticides (Fluroxypyr)	P040	µg/l	527	0	<0.02	<0.02	0
Pesticides (Flutriafol)	P039	µg/l	40	0	<0.004	<0.01	0
Pesticides (Glyphosate)	P042	µg/l	212	0	<0.01	<0.02	0
Pesticides (Heptachlor)	P043	µg/l	527	0	<0.008	<0.008	0
Pesticides (Heptachlor epoxide)	P044	µg/l	527	0	<0.008	<0.008	0
Pesticides (Isoproturon)	P048	µg/l	532	0	<0.01	<0.01	0
Pesticides (Linuron)	P051	µg/l	532	0	<0.01	<0.01	0
Pesticides (MCPA)	P054	µg/l	527	0	<0.01	<0.01	0
Pesticides (MCPB)	P055	µg/l	527	0	<0.01	<0.01	0
Pesticides (MCPB(Mecoprop))	P053	µg/l	527	0	<0.01	0.0272	0
Pesticides (Methabenzthiazuron)	P167	µg/l	468	0	<0.01	<0.01	0
Pesticides (Prometryn)	P070	µg/l	212	0	<0.01	<0.01	0
Pesticides (Propazine)	P066	µg/l	256	0	<0.01	<0.01	0
Pesticides (Propyzamide)	P071	µg/l	251	0	<0.01	0.01	0
Pesticides (Simazine)	P073	µg/l	532	0	<0.01	0.03	0
Pesticides (Tecnazene)	P130	µg/l	24	0	<0.01	<0.01	0
Pesticides (Terbutryn)	P077	µg/l	508	0	<0.01	<0.01	0
Pesticides (Tri-allate)	P079	µg/l	251	0	<0.01	<0.01	0
Pesticides (Trietazine)	P132	µg/l	532	0	<0.01	0.02	0
Pesticides (Trifluralin)	P081	µg/l	24	0	<0.01	<0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	526	0	0	0.08	0
TOTAL	-	-	35573	2	-	-	-

Table TVW 7: 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	1430	0	<5	73.039	0
Colour	A001	20 mg/l Pt/Co scale	1377	0	<1	2.4	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	2714	0	6.9	7.7	0
Iron	A022	200 µg Fe/l	1878	3	<15	81.426	3
Manganese	A023	50 µg Mn/l	1320	1	<2	11.19	1
Organoleptic Odour	A003	Dilution no. 3 at 25°C	1351	0	0	<1	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	1351	0	0	0	0
Sodium	A009	200 mg Na/l	528	1	7.505	120.17	1
Tetrachloromethane	D008	3 µg/l	528	0	<0.3	0.5084	0
Turbidity	A002	4 NTUs	2709	1	0.06	0.549	1
TOTAL	-	-	15186	6	-	-	-

Table TVW 8: 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 ₄ /l	1377	0	<0.04	0.12
Chloride	D002A	250 mg Cl/l	528	0	16	90.71
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1988	2	0	0
Coliform Bacteria	C001A	0 number/100 ml	7572	13	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	2687	n/a	0	180
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	2688	n/a	0	126
Conductivity	D001	2500 µS/cm	2688	0	462.01	833.11
Hydrogen ion (pH)	A006A	9.5 pH Value	2714	0	6.9	7.7
Radioactivity - Gross Alpha	F004	0.1 Bq/l	528	0	<0.03	0.06
Radioactivity - Gross Beta	F005	1 Bq/l	528	0	0.0329	0.3
Radioactivity - Tritium	F006	100 Bq/l	528	0	<10	<10
Residual Disinfectant - Total	C010	No abnormal change	7572	n/a	0.08	0.88
Sulphate	A007	250 mg SO ₄ /l	528	0	7.29	135.42
Total Organic Carbon (TOC)	A017	No abnormal change	528	n/a	<0.5	5
TOTAL	-	-	32454	15	-	-