

## **Data Summary Tables for Dŵr Cymru Welsh Water (DWR)**

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 26<sup>th</sup> 2008  
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Data Summary (Q4) for DWR CYMRU CYFYNGEDIG (WELSH WATER)

Table DWR 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 <sub>2</sub> /l	812	0	<0.002	0.03	0
<b>TOTAL</b>	-	-	<b>812</b>	<b>0</b>	-	-	-

Table DWR 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	4911	8	0	0	6
Cryptosporidium	C111	oocysts >1 in 10 litres	6567	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	4911	0	0	0	0
<b>TOTAL</b>	-	-	<b>16389</b>	<b>8</b>	-	-	-

Table DWR 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	4912	N/A	<1	19
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	4912	N/A	<1	7
Residual Disinfectant - Free	C009	No abnormal change	4921	N/A	<0.03	1.2478
Residual Disinfectant - Total	C010	No abnormal change	4922	N/A	0.28	1.47
Turbidity	A002A	1 NTU	10524	12	<0.05	0.39
<b>TOTAL</b>	-	-	<b>30191</b>	<b>12</b>	-	-

**Table DWR 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	22036	30	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	22036	8	0	0	8
<b>TOTAL</b>	-	-	<b>44072</b>	<b>38</b>	-	-	-

**Table DWR 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	22029	N/A	<1	49
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	22036	N/A	<1	4
Residual Disinfectant - Free	C009	No abnormal change	22035	N/A	<0.02	0.82
Residual Disinfectant - Total	C010	No abnormal change	22031	N/A	0.09	1.17
<b>TOTAL</b>	-	-	<b>88131</b>	<b>0</b>	-	-

**Table DWR 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	258	0	<0.08	<0.08	0
Benzene	F002	1 µg/l	258	0	<0.06	<0.06	0
Boron	D005A	1 mg B/l	257	0	<0.017	0.036	0
Bromate	F003	10 µg BrO <sub>3</sub> /l	69	0	<0.001	0.005	0
Cyanide	B003	50 µg CN/l	257	0	<0.4	3.11	0
Fluoride	A027	1.5 mg F/l	257	0	<0.001	0.09352	0
Mercury	B005	1 µg Hg/l	257	0	<0.012	0.019	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	255	0	0	<0.16	0
Pesticides (2,4,5-T)	P076	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (2,4-D)	P020	0.1 µg/l	184	0	<0.002	0.01575	0
Pesticides (Aldrin)	P002	0.03 µg/l	257	0	<0.001	<0.002	0
Pesticides (Alpha-HCH)	P003	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (Asulam)	P133	0.1 µg/l	184	0	<0.005	<0.00545	0
Pesticides (Atrazine)	P004	0.1 µg/l	257	0	<0.001	0.0211	0
Pesticides (Benazolin)	P138	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (Beta-HCH)	P007	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	184	0	<0.002	0.00215	0
Pesticides (Captan)	P192	0.1 µg/l	257	0	<0.002	<0.0111	0
Pesticides (Carbendazim)	P150	0.1 µg/l	115	0	<0.002	<0.002	0
Pesticides (Chlorfenvinphos)	P013	0.1 µg/l	258	0	<0.005	<0.009	0
Pesticides (Chlorothalonil)	P015	0.1 µg/l	257	0	<0.003	<0.003	0
Pesticides (Chlorpyrifos)	P017	0.1 µg/l	258	0	<0.003	<0.01	0
Pesticides (Chlortoluron)	P014	0.1 µg/l	115	0	<0.002	<0.004	0
Pesticides (Diazinon)	P024	0.1 µg/l	258	0	<0.005	<0.006	0
Pesticides (Dicamba)	P025	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (Dichlofluanid)	P140	0.1 µg/l	258	0	<0.004	<0.013	0
Pesticides (Dichlorprop)	P026	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (Dieldrin)	P028	0.03 µg/l	257	0	<0.002	<0.002	0
Pesticides (Diuron)	P032	0.1 µg/l	115	0	<0.003	0.004	0
Pesticides (Endosulfan A (alpha-Endosulfan))	P101	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (Endosulfan B (beta-Endosulfan))	P102	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (Endrin)	P034	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (Ethofumersate)	P221	0.1 µg/l	257	0	<0.002	<0.006	0
Pesticides (Fenpropidin)	P168	0.1 µg/l	257	0	<0.003	<0.00484	0
Pesticides (Fenpropimorph)	P037	0.1 µg/l	257	0	<0.002	<0.00852	0
Pesticides (Gamma-HCH (Lindane))	P041	0.1 µg/l	257	0	<0.001	<0.002	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Pesticides (Glyphosate)	P042	0.1 µg/l	32	0	<0.008	<0.008	0
Pesticides (Heptachlor)	P043	0.03 µg/l	257	0	<0.001	<0.002	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	257	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	P045	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (Ioxynil)	P049	0.1 µg/l	184	0	<0.001	<0.001	0
Pesticides (Isoproturon)	P048	0.1 µg/l	115	0	<0.002	<0.004	0
Pesticides (Linuron)	P051	0.1 µg/l	115	0	<0.003	<0.005	0
Pesticides (MCPA)	P054	0.1 µg/l	184	1	<0.002	0.0573	1
Pesticides (MCPB)	P055	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (MCPP(Mecoprop))	P053	0.1 µg/l	184	0	<0.002	0.00645	0
Pesticides (Metamitron)	P194	0.1 µg/l	115	0	<0.002	<0.003	0
Pesticides (Methabenzthiazuron)	P167	0.1 µg/l	115	0	<0.002	<0.00384	0
Pesticides (op-DDD (TDE))	P114	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (op-DDE)	P115	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (op-DDT)	P116	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (Parathion (Parathion ethyl))	P059	0.1 µg/l	258	0	<0.005	<0.006	0
Pesticides (Pentachlorophenol)	P060	0.1 µg/l	184	0	<0.002	<0.002	0
Pesticides (Permethrin)	P119	0.1 µg/l	257	0	<0.004	<0.004	0
Pesticides (pp-DDD (TDE))	P123	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (pp-DDE)	P124	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (pp-DDT)	P125	0.1 µg/l	257	0	<0.001	<0.002	0
Pesticides (Propachlor)	P126	0.1 µg/l	257	0	<0.002	<0.00626	0
Pesticides (Propazine)	P066	0.1 µg/l	257	0	<0.001	<0.004	0
Pesticides (Propetamphos)	P069	0.1 µg/l	258	0	<0.004	<0.007	0
Pesticides (Propyzamide)	P071	0.1 µg/l	257	0	<0.002	<0.004	0
Pesticides (Simazine)	P073	0.1 µg/l	257	0	<0.001	0.007	0
Pesticides (Terbutryn)	P077	0.1 µg/l	257	0	<0.002	<0.00342	0
Pesticides (Trietazine)	P132	0.1 µg/l	257	0	<0.001	<0.006	0
Pesticides (Trifluralin)	P081	0.1 µg/l	257	0	<0.002	<0.00284	0
Pesticides - Total Substances	B010	0.5 µg/l	257	0	0	0.04834	0
<b>TOTAL</b>	-	-	<b>14869</b>	<b>1</b>	-	-	-

**Table DWR 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	258	0	<0.02	0.1041	0
<b>TOTAL</b>	-	-	<b>258</b>	<b>0</b>	-	-	-

**Table DWR 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	257	0	6.616	63.294
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1723	1	0	0
Conductivity	D001	2500 µS/cm	1724	0	57.25	720.25
Radioactivity - Gross Alpha	F004	0.1 Bq/l	257	0	<0.003	0.06614
Radioactivity - Gross Beta	F005	1 Bq/l	257	0	0.00316	0.09026
Radioactivity - Tritium	F006	100 Bq/l	258	0	<1.659	<5
Sulphate	A007	250 mg SO <sub>4</sub> /l	257	0	<0.21	63.478
Total Organic Carbon (TOC)	A017	No abnormal change	257	N/A	<0.18	2.395
<b>TOTAL</b>	-	-	<b>4990</b>	<b>1</b>	-	-

**Table DWR 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	355	0	<0.08	<0.08	0
Antimony	B008A	5 µg Sb/l	602	0	<0.12	0.1394	0
Arsenic	B001A	10 µg As/l	602	0	<0.37	0.8388	0
Benzene	F002	1 µg/l	355	0	<0.06	<0.06	0
Benzo (a) Pyrene	D007	0.01 µg/l	606	0	<0.001	<0.001	0
Boron	D005A	1 mg B/l	354	0	<0.017	0.0454	0
Bromate	F003	10 µg BrO <sub>3</sub> /l	545	0	<0.001	0.002	0
Cadmium	B002	5 µg Cd/l	602	0	<0.06	0.06	0
Chromium	B004	50 µg Cr/l	602	0	<0.7	1.397	0
Copper	A024A	2 mg Cu/l	604	0	<0.003	0.1793	0
Cyanide	B003	50 µg CN/l	354	0	<0.4	2.98	0
<i>E. coli</i>	C002	0 number/100 ml	7710	1	0	0	1
Enterococci	C003	0 number/100 ml	602	0	0	0	0
Fluoride	A027	1.5 mg F/l	354	0	0.001	<0.09225	0
Lead	B007A	25 µg Pb/l	604	1	<0.5	9.28	1
Mercury	B005	1 µg Hg/l	355	0	<0.012	0.019	0
Nickel	B006A	20 µg Ni/l	602	1	<0.001	0.003	0
Nitrate	A012	50 mg NO <sub>3</sub> /l	833	0	<0.28	26.046	0
Nitrite	A013A	0.5 mg NO <sub>2</sub> /l	838	0	<0.002	0.40827	0
Nitrate/Nitrite Formula	A013C	1 mg NO <sub>2</sub> /l	831	0	0	0.52152	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	604	0	0	0.002	0
Selenium	B009	10 µg Se/l	602	0	<0.22	0.6297	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	354	0	0	<0.16	0
Trihalomethanes (THMs)	D011	100 µg/l	604	7	2.752	101.067	6
Pesticides (2,4,5-T)	P076	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (2,4-D)	P020	0.1 µg/l	317	0	<0.002	0.00546	0
Pesticides (Aldrin)	P002	0.03 µg/l	355	0	<0.001	<0.002	0
Pesticides (Alpha-HCH)	P003	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (Asulam)	P133	0.1 µg/l	345	0	<0.005	<0.00662	0
Pesticides (Atrazine)	P004	0.1 µg/l	358	0	<0.001	0.00741	0
Pesticides (Benazolin)	P138	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (Beta-HCH)	P007	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	317	0	<0.002	0.00282	0
Pesticides (Captan)	P192	0.1 µg/l	358	0	<0.002	0.01041	0
Pesticides (Carbendazim)	P150	0.1 µg/l	257	0	<0.002	<0.002	0
Pesticides (Chlorfenvinphos)	P013	0.1 µg/l	355	0	<0.005	<0.009	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Pesticides (Chlorothalonil)	P015	0.1 µg/l	355	0	<0.003	<0.003	0
Pesticides (Chlorpyrifos)	P017	0.1 µg/l	355	0	<0.003	<0.01	0
Pesticides (Chlortoluron)	P014	0.1 µg/l	257	0	<0.002	0.0292	0
Pesticides (Diazinon)	P024	0.1 µg/l	355	0	<0.005	<0.006	0
Pesticides (Dicamba)	P025	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (Dichlofluanid)	P140	0.1 µg/l	355	0	<0.004	<0.013	0
Pesticides (Dichlorprop)	P026	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (Dieldrin)	P028	0.03 µg/l	355	0	<0.002	<0.002	0
Pesticides (Diuron)	P032	0.1 µg/l	257	0	<0.003	0.01026	0
Pesticides (Endosulfan A (alpha-Endosulfan))	P101	0.1 µg/l	355	0	<0.002	<0.003	0
Pesticides (Endosulfan B (beta-Endosulfan))	P102	0.1 µg/l	355	0	<0.002	<0.003	0
Pesticides (Endrin)	P034	0.1 µg/l	355	0	<0.002	<0.003	0
Pesticides (Ethofumersate)	P221	0.1 µg/l	358	0	<0.002	<0.006	0
Pesticides (Fenpropidin)	P168	0.1 µg/l	355	0	<0.003	<0.004	0
Pesticides (Fenpropimorph)	P037	0.1 µg/l	358	0	<0.002	<0.006	0
Pesticides (Gamma-HCH (Lindane))	P041	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (Glyphosate)	P042	0.1 µg/l	147	0	<0.008	<0.008	0
Pesticides (Heptachlor)	P043	0.03 µg/l	355	0	<0.001	<0.002	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	355	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	P045	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (Ioxynil)	P049	0.1 µg/l	317	0	<0.001	<0.001	0
Pesticides (Isoproturon)	P048	0.1 µg/l	257	0	<0.002	0.01078	0
Pesticides (Linuron)	P051	0.1 µg/l	257	0	<0.003	<0.005	0
Pesticides (Mancozeb (a Dithiocarbamate Fungicide))	P187	0.1 µg/l	42	1	<0.1	2.66	1
Pesticides (MCPA)	P054	0.1 µg/l	317	0	<0.002	0.0132	0
Pesticides (MCPB)	P055	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (MCPP(Mecoprop))	P053	0.1 µg/l	317	0	<0.002	0.01282	0
Pesticides (Metamitron)	P194	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (Methabenzthiazuron)	P167	0.1 µg/l	257	0	<0.002	<0.003	0
Pesticides (op-DDD (TDE))	P114	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (op-DDE)	P115	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (op-DDT)	P116	0.1 µg/l	355	0	<0.002	<0.003	0
Pesticides (Parathion (Parathion ethyl))	P059	0.1 µg/l	355	0	<0.005	<0.006	0
Pesticides (Pentachlorophenol)	P060	0.1 µg/l	317	0	<0.002	<0.002	0
Pesticides (Permethrin)	P119	0.1 µg/l	355	0	<0.004	<0.00444	0
Pesticides (pp-DDD (TDE))	P123	0.1 µg/l	355	0	<0.002	<0.003	0
Pesticides (pp-DDE)	P124	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (pp-DDT)	P125	0.1 µg/l	355	0	<0.001	<0.002	0
Pesticides (Propachlor)	P126	0.1 µg/l	358	0	<0.002	<0.005	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Pesticides (Propazine)	P066	0.1 µg/l	358	0	<0.001	<0.004	0
Pesticides (Propetamphos)	P069	0.1 µg/l	355	0	<0.004	<0.007	0
Pesticides (Propyzamide)	P071	0.1 µg/l	358	0	<0.002	<0.004	0
Pesticides (Simazine)	P073	0.1 µg/l	358	0	<0.001	0.00741	0
Pesticides (Terbutryn)	P077	0.1 µg/l	358	0	<0.002	<0.00341	0
Pesticides (Trietazine)	P132	0.1 µg/l	358	0	<0.001	<0.006	0
Pesticides (Trifluralin)	P081	0.1 µg/l	358	0	<0.002	<0.002	0
Pesticides (Triphenyltin (fentin))	P169	0.1 µg/l	23	0	<0.02	<0.02	0
Pesticides - Total Substances	B010	0.5 µg/l	355	0	0	0.05508	0
<b>TOTAL</b>	-	-	<b>40157</b>	<b>11</b>	-	-	-

**Table DWR 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	1797	0	<11	121.04	0
Colour	A001	20 mg/l Pt/Co scale	1481	0	<0.4	3.918	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	1908	0	7.1009	8.9073	0
Iron	A022	200 µg Fe/l	2456	11	<7	152.58	10
Manganese	A023	50 µg Mn/l	1816	4	<1.5	26	4
Organoleptic Odour	A003	Dilution no. 3 at 25°C	1834	0	0	0	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	1616	0	0	0	0
Sodium	A009	200 mg Na/l	602	0	3	31.97	0
Tetrachloromethane	D008	3 µg/l	355	0	<0.02	<0.04	0
Turbidity	A002	4 NTUs	1566	0	<0.05	0.4333	0
<b>TOTAL</b>	-	-	<b>15431</b>	<b>15</b>	-	-	-

**Table DWR 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 <sub>4</sub> /l	1593	0	<0.007	0.20706
Chloride	D002A	250 mg Cl/l	354	0	5.955	47.97
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1884	0	0	0
Coliform Bacteria	C001A	0 number/100 ml	7711	31	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	2165	N/A	<1	95
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	2166	N/A	<1	47
Conductivity	D001	2500 µS/cm	992	0	60.93	425.28
Hydrogen ion (pH)	A006A	9.5 pH Value	1908	2	7.1009	8.9073
Radioactivity - Gross Alpha	F004	0.1 Bq/l	604	1	<0.003	0.058
Radioactivity - Gross Beta	F005	1 Bq/l	604	0	0.00105	0.1029
Radioactivity - Tritium	F006	100 Bq/l	357	0	<1.6	<5
Residual Disinfectant - Free	C009	No abnormal change	7658	N/A	<0.02	0.8
Residual Disinfectant - Total	C010	No abnormal change	7721	N/A	0.07	1.04
Sulphate	A007	250 mg SO <sub>4</sub> /l	354	0	<0.21	61.135
Total Organic Carbon (TOC)	A017	No abnormal change	354	N/A	0.201	3.458
<b>TOTAL</b>	-	-	<b>36425</b>	<b>34</b>	-	-