

Data Summary Tables for Dŵr Cymru Welsh Water (DWR)

These tables contain a summary of results of monitoring undertaken by the water company in 2008 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 2008'.

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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Site Summary Data for Dwr Cymru Cyfyngedig (Welsh Water)

Report Date Range: For the whole year 2008

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

Parameter Name	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 (Works)	A013B	0.1 mg NO ₂ /l	754	0	< 0.003	0.021	0
Totals:			754	0			

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

Parameter Name	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	5,180	8	0	0	6
Cryptosporidium	C111	(see note*)	6,925	0			0
E Coli	C002	0 number/100 ml	5,177	3	0	0	3
Totals:			17,282	11			

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

Parameter Name	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 (Indicator)	C007	No abnormal change	5,162	N/A	< 1	19
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	5,162	N/A	< 1	5
Residual Disinfectant - Free	C009	No abnormal change	5,185	N/A	< 0.02	1.33
Residual Disinfectant - Total	C010	No abnormal change	5,184	N/A	0.33	1.482
Turbidity (Indicator)	A002A	1 nephelometric turbidity unit	9,392	4	< 0.05	0.41
Totals:			30,085	4		

* Note : The Standard for *Cryptosporidium* ceased to exist when regulations changed from 22nd December 2007 but the regulatory monitoring related to *Cryptosporidium* risk assessments continued until 1st October.

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

Parameter Name	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	21,824	17	0	0	0
E Coli	C002	0 number/100 ml	21,824	3	0	0	3
Totals:			43,648	20			

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

Parameter Name	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 (Indicator)	C007	No abnormal change	21,717	N/A	< 1	28.82
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	21,716	N/A	< 1	6
Residual Disinfectant - Free	C009	No abnormal change	21,811	N/A	< 0.02	0.83
Residual Disinfectant - Total	C010	No abnormal change	21,810	N/A	0.08	1.17
Totals:			87,054	0		

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

Parameter Name	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	252	0	< 0.08	< 0.08	0
Benzene	F002	1 µg/l	252	0	< 0.06	< 0.06	0
Boron	D005A	1 mg B/l	251	0	< 0.017	0.027	0
Bromate	F003	10 µg BrO ₃ /l	62	0	< 0.001	0.002	0
Cyanide	B003	50 µg CN/l	252	0	< 0.7	2.723	0
Fluoride	A027	1.5 mg F/l	251	0	< 0.009	0.083	0
Mercury	B005	1 µg Hg/l	252	0	< 0.012	0.027	0
Pesticides - Total Substances	B010	0.5 µg/l	249	0	0	0.102	0
Pesticides 2,4,5-T	P076	0.1 µg/l	177	0	< 0.002	< 0.003	0
Pesticides 2,4,-Db	P082	0.1 µg/l	176	0	< 0.002	< 0.006	0
Pesticides 2,4-D	P020	0.1 µg/l	177	0	< 0.002	0.048	0
Pesticides Aldrin	P002	0.03 µg/l	253	0	< 0.002	< 0.006	0
Pesticides Alpha-HCH	P003	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Asulam	P133	0.1 µg/l	184	0	< 0.005	< 0.007	0
Pesticides Atrazine	P004	0.1 µg/l	251	0	< 0.003	< 0.003	0
Pesticides Benazolin	P138	0.1 µg/l	177	0	< 0.002	< 0.004	0
Pesticides Beta-HCH	P007	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Bromoxynil	P008	0.1 µg/l	177	0	< 0.002	< 0.007	0
Pesticides Captan	P192	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Carbendazim	P150	0.1 µg/l	104	0	< 0.002	< 0.002	0
Pesticides Chlorfenvinphos	P013	0.1 µg/l	251	0	< 0.005	< 0.005	0
Pesticides Chlorothalonil	P015	0.1 µg/l	253	0	< 0.003	< 0.006	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	251	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	104	0	< 0.004	< 0.004	0
Pesticides Diazinon	P024	0.1 µg/l	251	0	< 0.006	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	177	0	< 0.002	< 0.006	0
Pesticides Dichlofluanid	P140	0.1 µg/l	251	0	< 0.004	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	177	0	< 0.002	< 0.004	0
Pesticides Dieldrin	P028	0.03 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Diuron	P032	0.1 µg/l	104	0	< 0.003	< 0.003	0
Pesticides Endosulfan A (alpha-Endosulfan)	P101	0.1 µg/l	253	0	< 0.003	< 0.006	0
Pesticides Endosulfan B (beta-Endosulfan)	P102	0.1 µg/l	253	0	< 0.003	< 0.006	0
Pesticides Endrin	P034	0.1 µg/l	253	0	< 0.003	< 0.006	0
Pesticides Ethofumersate	P221	0.1 µg/l	251	0	< 0.006	< 0.006	0
Pesticides Fenpropidin	P168	0.1 µg/l	251	0	< 0.004	< 0.004	0
Pesticides Fenpropimorph	P037	0.1 µg/l	251	0	< 0.002	< 0.002	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	253	0	< 0.002	< 0.004	0

Pesticides Glyphosate	P042	0.1 µg/l	31	0	< 0.006	< 0.008	0
Pesticides Heptachlor	P043	0.03 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Hexachlorobenzene	P045	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Ioxynil	P049	0.1 µg/l	177	0	< 0.001	< 0.004	0
Pesticides Isoproturon	P048	0.1 µg/l	104	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	104	0	< 0.005	< 0.005	0
Pesticides MCPA	P054	0.1 µg/l	177	0	< 0.002	0.078	0
Pesticides MCPB	P055	0.1 µg/l	177	0	< 0.002	< 0.004	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	177	0	< 0.002	0.005	0
Pesticides Metamitron	P194	0.1 µg/l	104	0	< 0.003	< 0.003	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	104	0	< 0.003	< 0.003	0
Pesticides op-DDD (TDE)	P114	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides op-DDE	P115	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides op-DDT	P116	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	251	0	< 0.006	< 0.006	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	176	0	< 0.002	< 0.004	0
Pesticides Permethrin	P119	0.1 µg/l	253	0	< 0.004	0.027	0
Pesticides pp-DDD (TDE)	P123	0.1 µg/l	253	0	< 0.003	< 0.006	0
Pesticides pp-DDE	P124	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides pp-DDT	P125	0.1 µg/l	253	0	< 0.002	< 0.004	0
Pesticides Propachlor	P126	0.1 µg/l	246	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	251	0	< 0.004	< 0.004	0
Pesticides Propetamphos	P069	0.1 µg/l	251	0	< 0.007	< 0.007	0
Pesticides Propyzamide	P071	0.1 µg/l	251	0	< 0.004	< 0.004	0
Pesticides Simazine	P073	0.1 µg/l	251	0	< 0.007	< 0.007	0
Pesticides Terbutryn	P077	0.1 µg/l	251	0	< 0.003	< 0.003	0
Pesticides Trietazine	P132	0.1 µg/l	251	0	< 0.006	< 0.006	0
Pesticides Trifluralin	P081	0.1 µg/l	253	0	< 0.002	< 0.004	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	249	0	0	0	0
Totals:			14,459	0			

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

Parameter Name	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
Tetrachloromethane	D008	3 µg/l	251	0	< 0.012	< 0.04	0
Totals:			251	0			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Chloride (Indicator)	D002A	250 mg Cl/l	251	0	6.656	32.412
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	942	3	0	0
Conductivity (Indicator)	D001	2500 µS/cm	890	0	51.91	511.81
Gross Alpha Activity	F004	0.1 Bq/l	252	0	< 0.002	0.065
Gross Beta Activity	F005	1 Bq/l	252	0	0.003	0.09
Sulphate (Indicator)	A007	250 mg SO ₄ /l	251	0	< 0.21	80.152
Total organic carbon (indicator)	A017	No abnormal change	251	N/A	< 0.18	2.597
Tritium (Indicator)	F006	100 Bq/l	252	0	< 5	< 5
Totals:			3,340	3		

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

Parameter Name	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	356	0	< 0.08	< 0.08	0
Antimony	B008A	5 µg Sb/l	606	0	< 0.12	0.31	0
Arsenic	B001A	10 µg As/l	606	0	< 0.37	0.74	0
Benzene	F002	1 µg/l	356	0	< 0.06	< 0.06	0
Benzo (a) Pyrene	D007	0.01 µg/l	612	1	< 0.001	0.001	1
Boron	D005A	1 mg B/l	356	0	< 0.017	< 0.017	0
Bromate	F003	10 µg BrO ₃ /l	548	0	< 0.001	0.002	0
Cadmium	B002	5 µg Cd/l	606	0	< 0.06	< 0.06	0
Chromium	B004	50 µg Cr/l	606	0	< 0.7	1	0
Copper	A024A	2 mg Cu/l	607	0	< 0.003	0.166	0
Cyanide	B003	50 µg CN/l	356	0	< 0.7	4.316	0
E Coli	C002	0 number/100 ml	7,798	3	0	0	3
Enterococci	C003	0 number/100 ml	606	0	0	0	0
Fluoride	A027	1.5 mg F/l	357	0	< 0.009	0.069	0
Lead	B007A	25 µg Pb/l	607	0	< 0.5	7.784	0
Mercury	B005	1 µg Hg/l	356	0	< 0.012	0.019	0
Nickel	B006A	20 µg Ni/l	607	0	< 0.001	3	0
Nitrate	A012	50 mg NO ₃ /l	841	0	< 0.28	23.36	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	838	0	0.0004	0.468	0
Nitrite (Consumers tap)	A013A	0.5 mg NO ₂ /l	840	0	< 0.003	0.345	0
Pesticides - Total Substances	B010	0.5 µg/l	356	0	0	0.059	0
Pesticides 2,4,5-T	P076	0.1 µg/l	324	0	< 0.002	< 0.003	0
Pesticides 2,4,-Db	P082	0.1 µg/l	320	0	< 0.002	< 0.005	0
Pesticides 2,4-D	P020	0.1 µg/l	324	0	< 0.002	0.007	0
Pesticides Aldrin	P002	0.03 µg/l	543	0	< 0.002	< 0.004	0
Pesticides Alpha-HCH	P003	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Asulam	P133	0.1 µg/l	345	0	< 0.005	< 0.007	0
Pesticides Atrazine	P004	0.1 µg/l	356	0	< 0.003	0.004	0
Pesticides Benazolin	P138	0.1 µg/l	324	0	< 0.002	< 0.004	0
Pesticides Beta-HCH	P007	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	324	0	< 0.002	< 0.007	0
Pesticides Captan	P192	0.1 µg/l	542	0	< 0.002	< 0.004	0
Pesticides Carbendazim	P150	0.1 µg/l	257	0	< 0.002	< 0.002	0
Pesticides Chlorfenvinphos	P013	0.1 µg/l	356	0	< 0.005	< 0.005	0
Pesticides Chlorothalonil	P015	0.1 µg/l	543	0	< 0.003	< 0.005	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	356	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	257	0	< 0.004	0.026	0

Pesticides Diazinon	P024	0.1 µg/l	356	0	< 0.006	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	324	0	< 0.002	< 0.006	0
Pesticides Dichlofluanid	P140	0.1 µg/l	356	0	< 0.004	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	324	0	< 0.002	< 0.003	0
Pesticides Dieldrin	P028	0.03 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	257	0	< 0.003	0.008	0
Pesticides Endosulfan A (alpha-Endosulfan)	P101	0.1 µg/l	543	0	< 0.003	< 0.005	0
Pesticides Endosulfan B (beta-Endosulfan)	P102	0.1 µg/l	543	0	< 0.003	< 0.005	0
Pesticides Endrin	P034	0.1 µg/l	543	0	< 0.003	< 0.005	0
Pesticides Ethofumersate	P221	0.1 µg/l	356	0	< 0.006	< 0.006	0
Pesticides Fenpropidin	P168	0.1 µg/l	356	0	< 0.004	< 0.004	0
Pesticides Fenpropimorph	P037	0.1 µg/l	356	0	< 0.002	< 0.002	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Glyphosate	P042	0.1 µg/l	144	0	< 0.006	< 0.008	0
Pesticides Heptachlor	P043	0.03 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Hexachlorobenzene	P045	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Ioxynil	P049	0.1 µg/l	324	0	< 0.001	< 0.004	0
Pesticides Isoproturon	P048	0.1 µg/l	257	0	< 0.002	0.004	0
Pesticides Linuron	P051	0.1 µg/l	257	0	< 0.005	< 0.008	0
Pesticides MCPA	P054	0.1 µg/l	324	0	< 0.002	0.04	0
Pesticides MCPB	P055	0.1 µg/l	324	0	< 0.002	< 0.004	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	324	0	< 0.002	0.013	0
Pesticides Metamitron	P194	0.1 µg/l	257	0	< 0.003	< 0.003	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	257	0	< 0.003	< 0.003	0
Pesticides op-DDD (TDE)	P114	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides op-DDE	P115	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides op-DDT	P116	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	356	0	< 0.006	< 0.006	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	319	0	< 0.002	< 0.004	0
Pesticides Permethrin	P119	0.1 µg/l	543	0	< 0.004	0.012	0
Pesticides pp-DDD (TDE)	P123	0.1 µg/l	543	0	< 0.003	< 0.005	0
Pesticides pp-DDE	P124	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides pp-DDT	P125	0.1 µg/l	543	0	< 0.002	< 0.003	0
Pesticides Propachlor	P126	0.1 µg/l	356	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	356	0	< 0.004	< 0.004	0
Pesticides Propetamphos	P069	0.1 µg/l	356	0	< 0.007	< 0.007	0
Pesticides Propyzamide	P071	0.1 µg/l	356	0	< 0.004	< 0.007	0
Pesticides Simazine	P073	0.1 µg/l	356	0	< 0.007	< 0.007	0
Pesticides Terbutryn	P077	0.1 µg/l	356	0	< 0.003	< 0.003	0
Pesticides Trietazine	P132	0.1 µg/l	356	0	< 0.006	< 0.006	0
Pesticides Trifluralin	P081	0.1 µg/l	542	0	< 0.002	< 0.003	0
Pesticides Triphenyltin (fentin)	P169	0.1 µg/l	24	0	< 0.02	< 0.04	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	606	1	0	0.008	1

Selenium	B009	10 µg Se/l	606	0	< 0.22	0.479	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	356	0	0	0	0
Total Trihalomethanes	D011	100 µg/l	607	0	3.284	75.309	0
Totals:			44,284	5			

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

Parameter Name	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	1,740	4	< 11	111.18	3
Colour	A001	20 mg/l Pt/Co scale	1,442	0	< 0.4	4.9	0
Iron	A022	200 µg Fe/l	2,332	13	< 7	141.67	9
Manganese	A023	50 µg Mn/l	1,681	1	< 1.5	21.18	1
Organoleptic Odour	A003	<1 dilution number at 25°C	1,680	15			11
Organoleptic Taste	A004	<1 dilution number at 25°C	1,521	1			1
Sodium	A009	200 mg Na/l	606	0	2.514	32.93	0
Tetrachloromethane	D008	3 µg/l	356	0	< 0.02	< 0.04	0
Turbidity	A002	4 nephelometric turbidity units	1,433	0	< 0.05	0.427	0
Totals:			12,791	34			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Indicator)	A014	0.5 mg NH ₄ /l	1,588	0	< 0.007	0.228
Chloride (Indicator)	D002A	250 mg Cl/l	357	0	4.958	47.068
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	2,037	1	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	7,803	18	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	1,434	N/A	< 1	65.2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,446	N/A	< 1	45.53
Conductivity (Indicator)	D001	2500 µS/cm	955	0	57	390
Gross Alpha Activity	F004	0.1 Bq/l	607	0	< 0.002	0.053
Gross Beta Activity	F005	1 Bq/l	607	0	0.002	0.089
Hydrogen ion (pH)	A006	6.5 - 9.5 pH range	1,977	4	6.693	8.79
Residual Disinfectant - Free	C009	No abnormal change	7,742	N/A	< 0.02	0.79
Residual Disinfectant - Total	C010	No abnormal change	7,813	N/A	0.05	1.03
Sulphate (Indicator)	A007	250 mg SO ₄ /l	357	0	< 0.21	61.914
Total organic carbon (indicator)	A017	No abnormal change	357	N/A	0.339	2.98
Tritium (Indicator)	F006	100 Bq/l	356	0	< 5	< 5
Totals:			35,436	23		