

Data summary tables for Hafren Dyfrdwy Limited (HDC)

These tables contain a summary of results of monitoring undertaken by the water company in 2018 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 2018*.

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 Hafren Dyfrdwy

Report Date Range: For July to December 2018

Table HDC 1: Quality of water leaving service 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 (Total)	A013B	0.1 mg NO ₂ /l	18	0	< 0.004	< 0.006	0
Totals:			18	0			

Table HDC 2: Quality of water leaving service 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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	504	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	504	0	0	0	0
Totals:			1,008	0			

Table HDC 3: Quality of water leaving service 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 (Colony Counts)	C007	No abnormal change	504	-n/a	0	1
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	504	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	504	-n/a	0.1405	0.71
Turbidity - Indicator	A002A	1 nephelometric turbidity units	504	0	< 0.06	0.46
Totals:			2,016	0		

Table HDC 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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	2,121	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	2,121	3	0	0	3
Totals:			4,242	3			

Table HDC 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 22øc (Colony Counts)	C007	No abnormal change	2,121	-n/a	0	80
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	2,120	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	2,121	-n/a	0.03	0.51
Totals:			6,362	0		

Table HDC 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 (Total)	F001	3 µg/l	18	0	< 0.09	< 0.09	0
Benzene (Total)	F002	1 µg/l	18	0	< 0.04	< 0.04	0
Boron	D005A	1 mg B/l	18	0	< 0.015	< 0.015	0
Cyanide (Total)	B003	50 µg CN/l	19	0	< 1.9	< 2	0
Fluoride (Total)	A027	1.5 mg F/l	12	0	< 0.04	0.07	0
Mercury (Total)	B005	1 µg Hg/l	19	0	< 0.005	< 0.022	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	12	0	0	0.029	0
Pesticides 2 4-D	P020	0.1 µg/l	12	0	< 0.003	< 0.003	0
Pesticides 2 4-DB	P082	0.1 µg/l	12	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	12	0	< 0.001	< 0.001	0
Pesticides Asulam	P133	0.1 µg/l	12	0	< 0.008	0.019	0
Pesticides Bromoxynil	P008	0.1 µg/l	12	0	< 0.004	< 0.004	0
Pesticides Clopyralid	P018	0.1 µg/l	12	0	< 0.003	< 0.003	0
Pesticides Dieldrin	P028	0.03 µg/l	12	0	< 0.003	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	12	0	< 0.002	0.004	0
Pesticides Glyphosate	P042	0.1 µg/l	12	0	< 0.011	< 0.011	0
Pesticides Heptachlor	P043	0.03 µg/l	12	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	12	0	0	0	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	12	0	< 0.002	0.004	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	12	0	< 0.002	0.002	0
Pesticides Metaldehyde	P226	0.1 µg/l	12	0	< 0.002	0.009	0
Pesticides Triclopyr	P131	0.1 µg/l	12	0	< 0.004	< 0.004	0
Radon	F031	100 Bq/l	12	0	8.4	26.7	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	12	0	0	0	0
Totals:			320	0			

Table HDC 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 (Total)	D008	3 µg/l	12	0	< 0.06	< 0.06	0
Totals:			12	0			

Table HDC 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	D002A	250 mg Cl/l	18	0	9.1	20.8
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	94	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	102	0	127.06	267
Gross Alpha	F004	0.1 Bq/l	18	0	< 0.014	0.064
Gross Beta	F005	1 Bq/l	18	0	< 0.012	0.084
Sulphate	A007	250 mg SO ₄ /l	18	0	7	37.1
Total Organic Carbon	A017	No abnormal change	18	-n/a	< 0.4	2.6
Totals:			286	0		

Table HDC 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 failing standard
1 2-Dichloroethane (Total)	F001	3 µg/l	1	0	< 0.09	< 0.09	0
Antimony	B008A	5 µg Sb/l	53	0	< 0.04	0.17	0
Arsenic (Total)	B001A	10 µg As/l	53	0	0.13	1.4	0
Benzene (Total)	F002	1 µg/l	1	0	< 0.04	< 0.04	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	55	0	< 0.001	< 0.001	0
Boron	D005A	1 mg B/l	1	0	0.016	0.016	0
Bromate	F003	10 µg BrO3/l	53	0	< 0.2	0.59	0
Cadmium (Total)	B002	5 µg Cd/l	53	0	< 0.01	0.14	0
Chromium (Total)	B004	50 µg Cr/l	53	0	< 0.2	< 0.7	0
Copper (Total)	A024A	2 mg Cu/l	53	0	< 0.0009	0.1445	0
Cyanide (Total)	B003	50 µg CN/l	1	0	< 2	< 2	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	303	0	0	0	0
Enterococci (Confirmed)	C003	0 number/100 ml	53	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	12	0	0.04	0.11	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	54	0	< 0.32	7.48	0
Mercury (Total)	B005	1 µg Hg/l	1	0	< 0.022	< 0.022	0
Nickel (Total)	B006A	20 µg Ni/l	53	0	< 0.4	1.1	0
Nitrate (Total)	A012	50 mg NO3/l	53	0	0.48	29.47	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	53	0	< 0.004	< 0.006	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	53	0	< 0.02	0.59	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	1	0	0	0	0
Pesticides 2 4-D	P020	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides 2 4-DB	P082	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides 2,3,6-Tba	P074	0.1 µg/l	1	0	< 0.009	< 0.009	0
Pesticides 2,4,5-T	P076	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Aldrin	P002	0.03 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Asulam	P133	0.1 µg/l	1	0	< 0.008	< 0.008	0
Pesticides Atrazine	P004	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Azoxystrobin	P227	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Bentazone	P006	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Boscalid	P231	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Carbetamide	P010	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Carbophenothion	P011	0.1 µg/l	1	0	< 0.002	< 0.002	0

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 failing standard
Pesticides Chloridazon	P162	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Chlormequat	P163	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Chlorpyrifos (Chlorpyrifos Ethyl)	P017	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Chlorpyrifos Methyl	P019	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Chlortoluron	P014	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Clopyralid	P018	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Cyanazine	P092	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Cypermethrin	P094	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Cyproconazole	P207	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Delta-HCH	P022	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Deltamethrin	P095	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Diazinon	P024	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Dicamba	P025	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Dichlorprop	P026	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Dichlorvos	P027	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Dieldrin	P028	0.03 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Diflufenican	P157	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Dimethenamid - P	P265	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Dimethoate	P029	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Epoxyconazole	P217	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Ethofumersate	P221	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Fenoprop	P105	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Fenpropidin	P168	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Fenpropimorph	P037	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Flufenacet	P230	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Flusilazole	P159	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Flutriafol	P039	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Glyphosate	P042	0.1 µg/l	1	0	< 0.011	< 0.011	0
Pesticides Heptachlor	P043	0.03 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	1	0	0	0	0
Pesticides Ioxynil	P049	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Isoproturon	P048	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Isoxaben	P166	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Kresoxim-methyl	P218	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides MCPB	P055	0.1 µg/l	1	0	< 0.007	< 0.007	0

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 failing standard
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Metalaxyl	P209	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Metamitron	P194	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Metazachlor	P203	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Methiocarb	P056	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Metribuzin	P152	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Monuron	P113	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Oxadixyl	P154	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 101	P195	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 118	P196	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 138	P197	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 153	P198	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 180	P199	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides PCB Congener 28	P201	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 52	P202	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Pendimethalin	P118	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Pirimicarb	P064	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Pirimiphos Methyl	P072	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Propachlor	P126	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Propetamphos	P069	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Propiconazole	P068	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Propyzamide	P071	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Prosulfocarb	P243	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Quinmerac	P244	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Simazine	P073	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Tebuconazole	P177	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Terbutryn	P077	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Triadimefon	P078	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Tri-allate	P079	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Triazophos	P080	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Trichlorobenzene	P172	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Triclopyr	P131	0.1 µg/l	1	0	< 0.004	< 0.004	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	55	0	0	0	0
Radon	F031	100 Bq/l	1	0	16.2	16.2	0
Selenium (Total)	B009	10 µg Se/l	53	0	< 0.04	0.23	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	12	0	0	0	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	53	0	0	67.4	0
Totals:			1,277	0			

Table HDC 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 failing standard
Aluminium (Total)	A021	200 µg Al/l	127	0	< 5	98.04	0
Colour	A001	20 mg/l Pt/Co scale	143	0	< 0.4	1.756	0
Iron (Total)	A022	200 µg Fe/l	127	1	< 3	168.48	1
Manganese (Total)	A023	50 µg Mn/l	127	1	< 0.2	51.508	1
Odour	A003	0 Dilution number	142	0	0	0	0
Sodium (Total)	A009	200 mg Na/l	53	0	6.2	57.7	0
Taste (Taste Quant)	A004	0 Dilution number	145	0	0	0	0
Tetrachloromethane (Total)	D008	3 µg/l	12	0	< 0.06	< 0.06	0
Turbidity	A002	4 nephelometric turbidity units	143	0	< 0.06	0.7384	0
Totals:			1,019	2			

Table HDC 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 (Total)	A014	0.5 mg NH ₄ /l	142	0	< 0.012	< 0.015
Chloride	D002A	250 mg Cl/l	1	0	8.1	8.1
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	19	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	303	3	0	1
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	143	-n/a	0	56
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	144	-n/a	0	22
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	34	0	144	752
Gross Alpha	F004	0.1 Bq/l	1	0	< 0.014	< 0.014
Gross Beta	F005	1 Bq/l	1	0	0.048	0.048
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	142	0	7.1701	8.4713
Residual Disinfectant - Free	C009	No abnormal change	303	-n/a	0.0304	0.56
Sulphate	A007	250 mg SO ₄ /l	1	0	13.5	13.5
Total Organic Carbon	A017	No abnormal change	1	-n/a	< 0.4	< 0.4
Tritium	F006	100 Bq/l	1	0	< 3	< 3
Totals:			1,236	3		