

Data summary tables for Dee Valley Water (DVW)

These tables contain a summary of results of monitoring undertaken by the water company in 2013 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 2013*.

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 Dee Valley Water Plc

Report Date Range: For the whole year 2013

Table DVW 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	405	0	0	0.01	0
Totals:			405	0			

Table DVW 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	1,197	1	0	0	1
Cryptosporidium	C111	-(n/a)	4		0	0	0
E Coli	C002	0 number/100 ml	1,197	0	0	0	0
Totals:			2,398	1			

Table DVW 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	1,196	-n/a	0	2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,197	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	1,197	-n/a	0.1	0.7304
Residual Disinfectant - Total	C010	No abnormal change	1,197	-n/a	0.1	0.8
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,196)	-(n/a)	0	0.3
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	1,197	4	< 0.07	0.4518
Totals:			5,984	7		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table DVW 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	1,593	3	0	0	0
E Coli	C002	0 number/100 ml	1,593	0	0	0	0
Totals:			3,186	3			

Table DVW 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	1,594	-n/a	0	48
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,594	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	1,594	-n/a	0.02	0.6
Residual Disinfectant - Total	C010	No abnormal change	1,594	-n/a	0.02	0.7
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,592)	-(n/a)	0	0.25
Totals:			6,376	16		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table DVW 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	49	0	< 0.138	< 0.14	0
Benzene	F002	1 µg/l	49	0	< 0.05	< 0.05	0
Boron	D005A	1 mg B/l	48	0	0.004	0.023	0
Bromate	F003	10 µg BrO3/l	48	0	< 0.3	< 0.5	0
Cyanide	B003	50 µg CN/l	48	0	< 0.7	2.7	0
Fluoride	A027	1.5 mg F/l	48	0	< 0.01	0.12	0
Mercury	B005	1 µg Hg/l	48	0	< 0.01	0.084	0
Pesticides - Total Substances	B010	0.5 µg/l	49	0	0	0.07	0
Pesticides 2,4,-Db	P082	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	48	0	< 0.008	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	49	0	0	< 0.002	0
Pesticides Atrazine	P004	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	50	0	< 0.01	< 0.011	0
Pesticides Carbendazim	P150	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	50	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	48	0	< 0.01	< 0.02	0
Pesticides Diazinon	P024	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	49	0	0	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	48	0	< 0.001	0.03	0
Pesticides Heptachlor	P043	0.03 µg/l	49	0	0	< 0.002	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	46	0	0	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	51	0	< 0.008	0.02	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	51	0	< 0.007	0.04	0
Pesticides Mesosulfuron-methyl	P234	0.1 µg/l	50	0	< 0.01	< 0.01	0
Pesticides Metazachlor	P203	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Propyzamide	P071	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	48	0	< 0.016	< 0.02	0
Pesticides Trichlopyr	P131	0.1 µg/l	48	0	< 0.009	< 0.01	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	48	0	0	0	0
Totals:			1,552	0			

Table DVW 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	48	0	< 0.04	< 0.07	0
Totals:			48	0			

Table DVW 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	46	0	7.3	64
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	305	0	0	0
Conductivity (Indicator)	D001	2500 µS/cm	305	0	85	637.94
Sulphate (Indicator)	A007	250 mg SO4/l	48	0	12	82
Total organic carbon (indicator)	A017	No abnormal change	48	-n/a	0.2	2.4
Tritium (Indicator)	F006	100 Bq/l	49	0	< 5	< 5.1
Totals:			801	0		

Table DVW 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	F001	3 µg/l	4	0	< 0.138	< 0.14	0
Antimony	B008A	5 µg Sb/l	135	0	< 0.1	0.2	0
Arsenic	B001A	10 µg As/l	135	0	< 0.1	6.992	0
Benzene	F002	1 µg/l	4	0	< 0.05	< 0.05	0
Benzo (a) Pyrene	D007	0.01 µg/l	137	0	0	< 0.00696	0
Boron	D005A	1 mg B/l	4	0	< 0.005	0.01	0
Bromate	F003	10 µg BrO3/l	78	0	< 0.5	< 0.5	0
Cadmium	B002	5 µg Cd/l	135	0	< 0.02	0.14	0
Chromium	B004	50 µg Cr/l	135	0	< 0.1	1.464	0
Copper	A024A	2 mg Cu/l	135	0	0	0.1784	0
Cyanide	B003	50 µg CN/l	4	0	< 0.7	< 1.2	0
E Coli	C002	0 number/100 ml	770	1	0	0	1
Enterococci	C003	0 number/100 ml	135	0	0	0	0
Fluoride	A027	1.5 mg F/l	4	0	< 0.01	< 0.024	0
Lead	B007A	25 µg Pb/l	135	0	< 0.1	5.612	0
Mercury	B005	1 µg Hg/l	4	0	< 0.01	< 0.02	0
Nickel	B006A	20 µg Ni/l	135	0	0.236	3.58	0
Nitrate	A012	50 mg NO3/l	210	0	< 0.8677	14.9715	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	210	0	0.0111	0.3	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	210	0	0	0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	4	0	0	0	0
Pesticides 2,4,-Db	P082	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	4	0	0	< 0.002	0
Pesticides Atrazine	P004	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	4	0	< 0.01	< 0.011	0
Pesticides Carbendazim	P150	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	4	0	< 0.01	< 0.02	0
Pesticides Diazinon	P024	0.1 µg/l	4	0	< 0.01	< 0.01	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 Dieldrin	P028	0.03 µg/l	4	0	0	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	4	0	< 0.009	< 0.01	0
Pesticides Heptachlor	P043	0.03 µg/l	4	0	0	< 0.002	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Mesosulfuron-methyl	P234	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Metazachlor	P203	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Propyzamide	P071	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	4	0	< 0.016	< 0.02	0
Pesticides Trichlopyr	P131	0.1 µg/l	4	0	< 0.01	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	132	0	0	0	0
Selenium	B009	10 µg Se/l	135	0	< 0.1	0.728	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	4	0	0	0	0
Total Trihalomethanes	D011	100 µg/l	136	0	0.2553	66.229	0
Totals:			3,221	1			

Table DVW 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	A021	200 µg Al/l	327	0	3.3	52.312	0
Colour	A001	20 mg/l Pt/Co scale	326	0	< 0.4	3.073	0
Iron	A022	200 µg Fe/l	327	0	2.28	104.76	0
Manganese	A023	50 µg Mn/l	327	0	0	29.72	0
Organoleptic Odour	A003	0 Dilution number	328	1	0	0	1
Organoleptic Taste	A004	0 Dilution number	328	1	0	0	1
Sodium	A009	200 mg Na/l	135	0	4.876	33.556	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
Tetrachloromethane	D008	3 µg/l	4	0	< 0.04	< 0.07	0
Turbidity	A002	4 nephelometric turbidity units	326	0	< 0.07	0.4419	0
Totals:			2,428	2			

Table DVW 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 NH4/l	326	0	0.00527	0.05876
Chloride (Indicator)	D002A	250 mg Cl/l	4	0	10.1	29.1
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	4	1	0	28
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	770	5	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	328	-n/a	0	212
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	328	-n/a	0	229
Conductivity (Indicator)	D001	2500 µS/cm	4	0	107	142
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	327	0	6.794	8.2872
Residual Disinfectant - Free	C009	No abnormal change	778	-n/a	0.02	0.5542
Residual Disinfectant - Total	C010	No abnormal change	778	-n/a	0.05	0.65
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(778)	-(n/a)	0	0.25
Sulphate (Indicator)	A007	250 mg SO4/l	4	0	3	40
Total organic carbon (indicator)	A017	No abnormal change	4	-n/a	1.4	7.8
Tritium (Indicator)	F006	100 Bq/l	4	0	< 5	< 5
Totals:			3,659	48		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters

'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.