

Data summary tables for South East Water (SEW)

These tables contain a summary of results of monitoring undertaken by the water company in 2017 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 2017*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.defra.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 South East Water Plc

Report Date Range: For the whole year 2017

Table SEW 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 (Total)	A013B	0.1 mg NO ₂ /l	628	0	< 0.005	< 0.006	0
Totals:			628	0			

Table SEW 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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	9,619	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	9,619	5	0	0	5
Totals:			19,238	5			

Table SEW 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 (Colony Counts)	C007	No abnormal change	9,465	-n/a	0	17
Residual Disinfectant - Free	C009	No abnormal change	9,616	-n/a	0.14	1.41
Residual Disinfectant - Total	C010	No abnormal change	9,616	-n/a	0.2	1.58
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(9,616)</i>	<i>-n/a</i>	<i>0</i>	<i>0.39</i>
Turbidity - Indicator	A002A	1 nephelometric turbidity units	9,335	1	< 0.1	0.19
Totals:			38,032	1		

*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 SEW 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	11,618	1	0	0	1
Total Coliforms (Confirmed)	C001	0 number/100 ml	11,618	11	0	0	0
Totals:			23,236	12			

Table SEW 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	11,630	-n/a	0	196
Residual Disinfectant - Free	C009	No abnormal change	11,618	-n/a	< 0.05	0.68
Residual Disinfectant - Total	C010	No abnormal change	11,618	-n/a	0.09	0.83
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(11,618)</i>	<i>-n/a</i>	<i>0</i>	<i>0.31</i>
Totals:			34,866	0		

*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 SEW 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
Boron	D005A	1 mg B/l	284	0	< 0.05	0.27475	0
Bromate	F003	10 µg BrO3/l	284	0	< 0.4	1.35	0
Cyanide (Total)	B003	50 µg CN/l	284	0	< 2	3.845	0
Mercury (Total)	B005	1 µg Hg/l	284	0	< 0.02	< 0.02	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	285	0	0	0.05184	0
Pesticides 2,4-D	P020	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides 2,4,5-T	P076	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	285	0	< 0.007	0.01442	0
Pesticides Atrazine	P004	0.1 µg/l	285	0	< 0.005	0.02614	0
Pesticides Bentazone	P006	0.1 µg/l	284	0	< 0.005	0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides Carbenazim (Total)	P150	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides Carbetamide	P010	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides Chlortoluron	P014	0.1 µg/l	285	0	< 0.005	0.02414	0
Pesticides Dicamba	P025	0.1 µg/l	284	0	< 0.01	< 0.01	0
Pesticides Dichlobenil	P098	0.1 µg/l	284	0	< 0.006	< 0.006	0
Pesticides Dichlorprop	P026	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	284	0	< 0.006	0.0073	0
Pesticides Diuron	P032	0.1 µg/l	285	0	< 0.005	0.007	0
Pesticides Epoxyconazole	P217	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides Fluroxypyr	P040	0.1 µg/l	284	0	< 0.005	< 0.00515	0
Pesticides Flutriafol	P039	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	286	0	< 0.006	< 0.006	0
Pesticides Heptachlor	P043	0.03 µg/l	285	0	< 0.007	0.01214	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	284	0	< 0.012	< 0.01245	0
Pesticides Isoproturon	P048	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides MCPB	P055	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	284	0	< 0.005	< 0.005	0
Pesticides Metaldehyde	P226	0.1 µg/l	285	0	< 0.005	0.04128	0
Pesticides Oxadixyl	P154	0.1 µg/l	285	0	< 0.005	0.01528	0
Pesticides Pendimethalin	P118	0.1 µg/l	285	0	< 0.005	0.006	0
Pesticides Prometryne	P070	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	285	0	< 0.005	< 0.005	0

Table SEW 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
Pesticides Propyzamide	P071	0.1 µg/l	284	0	< 0.008	< 0.008	0
Pesticides Simazine	P073	0.1 µg/l	285	0	< 0.005	0.01	0
Pesticides Terbutryn	P077	0.1 µg/l	285	0	< 0.005	< 0.005	0
Pesticides Tri-allate	P079	0.1 µg/l	284	0	< 0.007	< 0.007	0
Pesticides Triclopyr	P131	0.1 µg/l	284	0	< 0.007	< 0.007	0
Pesticides Trietazine	P132	0.1 µg/l	285	0	< 0.005	< 0.005	0
Totals:			11,665	0			

Table SEW 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)
Clostridium Perfringens	C004A	0 number/100 ml	713	0	0	0
Sulphate	A007	250 mg SO4/l	284	0	6.67	72.075
Total Organic Carbon	A017	No abnormal change	284	-n/a	< 0.5	3.015
Totals:			1,281	0		

Table SEW 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	581	0	< 0.04	< 0.04	0
Antimony	B008A	5 µg Sb/l	578	0	< 0.05	0.4184	0
Arsenic (Total)	B001A	10 µg As/l	578	0	< 0.5	5.821	0
Benzene (Total)	F002	1 µg/l	581	0	< 0.01	0.0118	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	583	0	< 0.002	< 0.002	0
Boron	D005A	1 mg B/l	209	0	< 0.05	0.1567	0
Bromate	F003	10 µg BrO3/l	578	0	< 0.4	2.021	0
Cadmium (Total)	B002	5 µg Cd/l	578	0	< 0.06	0.0721	0
Chromium (Total)	B004	50 µg Cr/l	578	0	< 0.3	3.321	0
Copper (Total)	A024A	2 mg Cu/l	577	0	< 0.004	0.58152	0
Cyanide (Total)	B003	50 µg CN/l	209	0	< 2	2.2	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	5,682	0	0	0	0
Enterococci (Confirmed)	C003	0 number/100 ml	578	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	578	0	0.048	0.56126	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	577	4	< 0.5	9.322	4
Mercury (Total)	B005	1 µg Hg/l	209	0	< 0.02	< 0.02	0
Nickel (Total)	B006A	20 µg Ni/l	577	3	< 0.3	13.12	3
Nitrate (Total)	A012	50 mg NO3/l	579	0	< 2	42.8	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	579	0	< 0.005	< 0.006	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	578	0	0	0.856	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	209	0	0	0.1282	0
Pesticides 2 4-D	P020	0.1 µg/l	210	0	< 0.005	0.00989	0
Pesticides 2,4,5-T	P076	0.1 µg/l	210	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	213	0	< 0.007	0.01458	0
Pesticides Atrazine	P004	0.1 µg/l	209	0	< 0.005	0.0269	0
Pesticides Bentazone	P006	0.1 µg/l	210	0	< 0.005	0.00778	0
Pesticides Bromoxynil	P008	0.1 µg/l	210	0	< 0.005	< 0.005	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Carbetamide	P010	0.1 µg/l	209	0	< 0.005	0.0118	0
Pesticides Chlortoluron	P014	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Dicamba	P025	0.1 µg/l	210	0	< 0.01	< 0.01	0
Pesticides Dichlobenil	P098	0.1 µg/l	213	0	< 0.006	< 0.006	0
Pesticides Dichlorprop	P026	0.1 µg/l	210	0	< 0.005	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	213	0	< 0.006	0.00786	0
Pesticides Diuron	P032	0.1 µg/l	209	0	< 0.005	0.0119	0
Pesticides Epoxyconazole	P217	0.1 µg/l	209	0	< 0.005	< 0.005	0

Table SEW 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
Pesticides Fluroxypyr	P040	0.1 µg/l	210	0	< 0.005	0.008	0
Pesticides Flutriafol	P039	0.1 µg/l	209	0	< 0.005	0.01	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	216	0	< 0.006	< 0.006	0
Pesticides Heptachlor	P043	0.03 µg/l	215	0	< 0.007	0.013	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	213	0	< 0.012	< 0.01458	0
Pesticides Isoproturon	P048	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	210	1	< 0.005	0.01556	1
Pesticides MCPB	P055	0.1 µg/l	210	0	< 0.005	< 0.005	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	210	0	< 0.005	0.01156	0
Pesticides Metaldehyde	P226	0.1 µg/l	121	0	< 0.005	0.06734	0
Pesticides Oxadixyl	P154	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Pendimethalin	P118	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Prometryne	P070	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	213	0	< 0.008	0.04386	0
Pesticides Simazine	P073	0.1 µg/l	209	0	< 0.005	0.011	0
Pesticides Terbutryn	P077	0.1 µg/l	209	0	< 0.005	< 0.005	0
Pesticides Tri-allate	P079	0.1 µg/l	213	0	< 0.007	< 0.007	0
Pesticides Triclopyr	P131	0.1 µg/l	210	0	< 0.007	0.00989	0
Pesticides Trietazine	P132	0.1 µg/l	209	0	< 0.005	< 0.0068	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	580	0	0	0.00319	0
Selenium (Total)	B009	10 µg Se/l	578	0	< 0.3	3.31773	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	582	0	0	2.0529	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	578	0	1.1	70.768	0
Totals:			25,578	8			

Table SEW 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	1,211	0	< 5	50.192	0
Colour	A001	20 mg/l Pt/Co scale	2,230	0	< 1	2	0
Iron (Total)	A022	200 µg Fe/l	1,751	7	< 3	120.532	7
Manganese (Total)	A023	50 µg Mn/l	1,530	0	< 0.9	11.1	0
Odour	A003	0 Dilution number	2,232	3	0	0	3
Sodium (Total)	A009	200 mg Na/l	578	0	6.779	93.977	0
Taste (Taste Quant)	A004	0 Dilution number	2,231	0	0	0	0
Tetrachloromethane (Total)	D008	3 µg/l	581	0	< 0.04	0.12	0
Turbidity	A002	4 nephelometric turbidity units	2,230	0	< 0.1	0.4638	0
Totals:			14,574	10			

Table SEW 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	1,252	0	< 0.03	< 0.04
Chloride	D002A	250 mg Cl/l	578	0	12.0149	73.0347
Clostridium Perfringens	C004A	0 number/100 ml	505	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	5,682	6	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	2,230	-n/a	0	67
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	2,230	0	213	749.38
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	2,230	0	7.2	8.4
Residual Disinfectant - Free	C009	No abnormal change	5,682	-n/a	< 0.05	0.69
Residual Disinfectant - Total	C010	No abnormal change	5,682	-n/a	0.09	0.8317
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(5,682)</i>	<i>-n/a</i>	0	0.365
Sulphate	A007	250 mg SO ₄ /l	209	0	7.29	89.92
Total Organic Carbon	A017	No abnormal change	209	-n/a	< 0.5	3.68
Totals:			26,489	6		

*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'.