

Data summary tables for Southern Water (SRN)

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.

Published 11 July 2019
Drinking Water Inspectorate
Area 5B
Nobel House
17 Smith Square
London
SW1P 3JR

Enquiries: 0300 068 6400

Site Summary Data for Southern Water Services Ltd

Report Date Range: For the whole year 2018

Table SRN 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	618	0	< 0.002	0.01881	0
Totals:			618	0			

Table SRN 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	12,269	1	0	0	1
Total Coliforms (Confirmed)	C001	0 number/100 ml	12,269	8	0	0	4
Totals:			24,538	9			

Table SRN 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	12,277	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	12,295	-n/a	0.29	1.0104
Residual Disinfectant - Total	C010	No abnormal change	12,295	-n/a	0.35	1.11
Turbidity - Indicator	A002A	1 nephelometric turbidity units	12,272	0	< 0.05	0.43
Totals:			49,139	0		

Table SRN 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	10,358	1	0	0	1
Total Coliforms (Confirmed)	C001	0 number/100 ml	10,358	4	0	0	0
Totals:			20,716	5			

Table SRN 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	10,356	-n/a	0	9
Residual Disinfectant - Free	C009	No abnormal change	10,368	-n/a	0.14	0.7631
Residual Disinfectant - Total	C010	No abnormal change	10,368	-n/a	0.22	0.8231
Totals:			31,092	0		

Table SRN 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	618	0	< 0.07	< 0.1	0
Benzene (Total)	F002	1 µg/l	618	0	< 0.02	< 0.07	0
Boron	D005A	1 mg B/l	618	0	0.0126	0.073448	0
Bromate	F003	10 µg BrO3/l	618	0	< 0.1	1.781	0
Cyanide (Total)	B003	50 µg CN/l	618	0	< 0.7	1.6	0
Fluoride (Total)	A027	1.5 mg F/l	618	0	0.05	0.22	0
Mercury (Total)	B005	1 µg Hg/l	618	0	< 0.02	< 0.05	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	619	0	0	0.0844	0
Pesticides 2 4-D	P020	0.1 µg/l	622	0	< 0.003	0.007	0
Pesticides Aldrin	P002	0.03 µg/l	618	0	< 0.001	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	618	0	< 0.001	0.02181	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	618	0	< 0.003	0.01	0
Pesticides Bentazone	P006	0.1 µg/l	618	0	< 0.001	0.02262	0
Pesticides Boscalid	P231	0.1 µg/l	618	0	< 0.003	< 0.005	0
Pesticides Bromacil	P086	0.1 µg/l	618	0	< 0.003	0.015	0
Pesticides Bromoxynil	P008	0.1 µg/l	618	0	< 0.003	< 0.003	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	619	0	< 0.001	0.001	0
Pesticides Carbetamide	P010	0.1 µg/l	618	1	< 0.002	0.00662	1
Pesticides Chloromequat	P163	0.1 µg/l	617	0	< 0.003	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	616	0	< 0.001	< 0.00783	0
Pesticides Chlorpyrifos (Chlorpyriphos Ethyl)	P017	0.1 µg/l	618	0	< 0.002	< 0.006	0
Pesticides Chlortoluron	P014	0.1 µg/l	618	0	< 0.002	0.00481	0
Pesticides Clopyralid	P018	0.1 µg/l	618	0	< 0.003	0.01943	0
Pesticides Cyanazine	P092	0.1 µg/l	618	0	< 0.001	0.00381	0
Pesticides Cyproconazole	P207	0.1 µg/l	618	0	< 0.001	< 0.002	0
Pesticides Diazinon	P024	0.1 µg/l	620	0	< 0.001	< 0.003	0
Pesticides Dicamba	P025	0.1 µg/l	618	0	< 0.003	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	618	0	< 0.004	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	618	0	< 0.002	< 0.003	0
Pesticides Diflufenican	P157	0.1 µg/l	620	0	< 0.002	< 0.004	0
Pesticides Diuron	P032	0.1 µg/l	618	0	< 0.002	0.006	0
Pesticides Epoxyconazole	P217	0.1 µg/l	618	0	< 0.001	0.002	0
Pesticides Fenpropimorph	P037	0.1 µg/l	618	0	< 0.001	0.001	0
Pesticides Flufenacet	P230	0.1 µg/l	618	0	< 0.002	0.00681	0
Pesticides Fluroxypyr	P040	0.1 µg/l	618	0	< 0.003	< 0.003	0
Pesticides Flusilazole	P159	0.1 µg/l	618	0	< 0.001	< 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 supply points with failures
Pesticides Flutriafol	P039	0.1 µg/l	618	0	< 0.001	0.01281	0
Pesticides Fluxapyroxad	P274	0.1 µg/l	618	0	< 0.002	< 0.002	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	618	0	< 0.001	< 0.003	0
Pesticides Glyphosate	P042	0.1 µg/l	618	0	< 0.003	0.003	0
Pesticides Heptachlor	P043	0.03 µg/l	620	0	< 0.001	< 0.002	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	618	0	< 0.002	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	618	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	618	0	< 0.002	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	618	0	< 0.003	0.00581	0
Pesticides MCPB	P055	0.1 µg/l	618	0	< 0.004	< 0.006	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	618	0	< 0.002	0.00881	0
Pesticides Mepiquat Chloride	P280	0.1 µg/l	617	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	618	0	0.003	0.02281	0
Pesticides Metazachlor	P203	0.1 µg/l	618	0	< 0.002	0.015	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	619	0	< 0.001	0.001	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	618	0	< 0.002	< 0.004	0
Pesticides Pendimethalin	P118	0.1 µg/l	618	0	< 0.002	< 0.004	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	618	0	< 0.005	< 0.006	0
Pesticides Picloram (Total)	P122	0.1 µg/l	618	0	< 0.004	0.01143	0
Pesticides Pirimicarb	P064	0.1 µg/l	619	0	< 0.001	0.001	0
Pesticides Prometryne	P070	0.1 µg/l	619	0	< 0.001	< 0.001	0
Pesticides Propazine	P066	0.1 µg/l	617	0	< 0.001	0.002	0
Pesticides Propiconazole	P068	0.1 µg/l	618	0	< 0.002	0.00481	0
Pesticides Propyzamide	P071	0.1 µg/l	618	0	< 0.002	0.01881	0
Pesticides Prosulfocarb	P243	0.1 µg/l	618	0	< 0.002	< 0.002	0
Pesticides Quinmerac	P244	0.1 µg/l	618	0	< 0.001	0.00581	0
Pesticides Simazine	P073	0.1 µg/l	618	0	< 0.001	0.01081	0
Pesticides Spiroxamine	P239	0.1 µg/l	618	0	< 0.001	0.002	0
Pesticides Tebuconazole	P177	0.1 µg/l	618	0	< 0.002	0.003	0
Pesticides Terbutryn	P077	0.1 µg/l	619	0	< 0.001	0.001	0
Pesticides Tri-allate	P079	0.1 µg/l	620	0	< 0.001	< 0.004	0
Pesticides Triclopyr	P131	0.1 µg/l	618	0	< 0.003	< 0.009	0
Pesticides Trietazine	P132	0.1 µg/l	618	0	< 0.001	0.008	0
Pesticides Trifluralin	P081	0.1 µg/l	618	0	< 0.001	< 0.002	0
Radon	F031	100 Bq/l	150	0	< 0.5	13.135	0
Totals:			43,423	1			

Table SRN 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	618	0	10.057	66.153
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	2,672	2	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	2,896	0	289.94	736.03
Gross Alpha	F004	0.1 Bq/l	159	0	< 0.0186	0.0522
Gross Beta	F005	1 Bq/l	158	0	< 0.01959	0.15623
Sulphate	A007	250 mg SO4/l	618	0	3.9119	79.46
Total Organic Carbon	A017	No abnormal change	618	-n/a	0.3	2.881
Tritium	F006	100 Bq/l	158	0	< 5	8.263
Totals:			7,897	2		

Table SRN 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	3	0	< 0.07	< 0.07	0
Antimony	B008A	5 µg Sb/l	531	0	< 0.033	< 0.25	0
Arsenic (Total)	B001A	10 µg As/l	531	0	0.1	0.7604	0
Benzene (Total)	F002	1 µg/l	3	0	< 0.02	< 0.02	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	531	0	< 0.00022	0.0009004	0
Boron	D005A	1 mg B/l	3	0	0.0179	0.12	0
Bromate	F003	10 µg BrO3/l	124	0	< 0.1	2.025	0
Cadmium (Total)	B002	5 µg Cd/l	531	0	< 0.006	0.0204	0
Chromium (Total)	B004	50 µg Cr/l	531	0	0.18	1.6052	0
Copper (Total)	A024A	2 mg Cu/l	531	0	0.001096	0.743	0
Cyanide (Total)	B003	50 µg CN/l	3	0	< 0.7	< 0.7	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	6,506	1	0	0	1
Enterococci (Confirmed)	C003	0 number/100 ml	531	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	3	0	0.11	0.14	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	529	1	< 0.02	5.506	1
Mercury (Total)	B005	1 µg Hg/l	3	0	< 0.02	< 0.03	0
Nickel (Total)	B006A	20 µg Ni/l	531	3	0.3696	13.268	3
Nitrate (Total)	A012	50 mg NO3/l	529	0	2.915	40.57	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	529	0	< 0.002	0.0212	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	529	0	< 0.37	0.817	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	3	0	0	0.056	0
Pesticides 2 4-D	P020	0.1 µg/l	3	0	< 0.003	0.007	0
Pesticides Aldrin	P002	0.03 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Bentazone	P006	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Boscalid	P231	0.1 µg/l	3	0	< 0.005	< 0.005	0
Pesticides Bromacil	P086	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Carbetamide	P010	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Chlormequat	P163	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	3	0	< 0.004	< 0.007	0
Pesticides Chlorpyrifos (Chlorpyrifos Ethyl)	P017	0.1 µg/l	3	0	< 0.002	< 0.015	0
Pesticides Chlortoluron	P014	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	3	0	< 0.005	0.02	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 Cyanazine	P092	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Cyproconazole	P207	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Diazinon	P024	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Dicamba	P025	0.1 µg/l	3	0	< 0.004	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	3	0	< 0.004	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Diflufenican	P157	0.1 µg/l	3	0	< 0.002	< 0.004	0
Pesticides Diuron	P032	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Epoxyconazole	P217	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Fenpropimorph	P037	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Flufenacet	P230	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Flusilazole	P159	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Flutriafol	P039	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Fluxapyroxad	P274	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Glyphosate	P042	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Heptachlor	P043	0.03 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	3	0	< 0.007	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	3	0	< 0.004	< 0.004	0
Pesticides MCPB	P055	0.1 µg/l	3	0	< 0.004	< 0.004	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Mepiquat Chloride	P280	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	3	0	< 0.005	0.031	0
Pesticides Metazachlor	P203	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	3	0	< 0.003	< 0.004	0
Pesticides Pendimethalin	P118	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	3	0	< 0.006	< 0.006	0
Pesticides Picloram (Total)	P122	0.1 µg/l	3	0	< 0.006	< 0.006	0
Pesticides Pirimicarb	P064	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Prometryne	P070	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Propazine	P066	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Propiconazole	P068	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Propyzamide	P071	0.1 µg/l	3	0	< 0.005	< 0.005	0
Pesticides Prosulfocarb	P243	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Quinmerac	P244	0.1 µg/l	3	0	< 0.001	0.005	0
Pesticides Simazine	P073	0.1 µg/l	3	0	< 0.001	< 0.001	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 Spiroxamine	P239	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Tebuconazole	P177	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Terbutryn	P077	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Tri-allate	P079	0.1 µg/l	3	0	< 0.002	< 0.004	0
Pesticides Triclopyr	P131	0.1 µg/l	3	0	< 0.009	< 0.009	0
Pesticides Trietazine	P132	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Trifluralin	P081	0.1 µg/l	3	0	< 0.002	< 0.002	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	529	0	0	0.0047	0
Selenium (Total)	B009	10 µg Se/l	531	0	< 0.16	3.3192	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	529	0	0	2.394	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	527	0	1.0472	62.3468	0
Totals:			15,317	5			

Table SRN 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	2,349	0	< 3.21	27.8	0
Colour	A001	20 mg/l Pt/Co scale	2,355	0	< 0.6	2.4	0
Iron (Total)	A022	200 µg Fe/l	2,349	3	< 0.7	55.85	3
Manganese (Total)	A023	50 µg Mn/l	2,349	0	< 0.14	6.77	0
Odour	A003	0 Dilution number	2,355	0	0	0	0
Sodium (Total)	A009	200 mg Na/l	531	0	5.3924	44.112	0
Taste (Taste Quant)	A004	0 Dilution number	2,354	4	0	0	4
Tetrachloromethane (Total)	D008	3 µg/l	529	0	< 0.02	< 0.14	0
Turbidity	A002	4 nephelometric turbidity units	2,355	0	< 0.05	0.46	0
Totals:			17,526	7			

Table SRN 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 NH4/l	2,352	1	< 0.004	0.03
Chloride	D002A	250 mg Cl/l	3	0	11.2	49.6
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	6	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,506	10	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	2,355	-n/a	0	43
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	6	0	363	417
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	2,356	0	7.01	7.7
Residual Disinfectant - Free	C009	No abnormal change	6,509	-n/a	0.05	0.7
Residual Disinfectant - Total	C010	No abnormal change	6,509	-n/a	0.12	0.75
Sulphate	A007	250 mg SO4/l	3	0	4.55	53
Total Organic Carbon	A017	No abnormal change	127	-n/a	0.228	3.936
Totals:			26,732	11		