

Data summary tables for South West Water Ltd (SWT)

These tables contain a summary of results of monitoring undertaken by the water company in 2016 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 2016*.

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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Drinking Water Inspectorate
Area 7e
9 Millbank
c/o Nobel House
17 Smith Square
London
SW1P 3JR

Enquiries: 0300 068 6400

Site Summary Data for South West Water Ltd

Report Date Range: For the whole year 2016

Table SWT 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 (Works)	A013B	0.1 mg NO ₂ /l	357	0	< 0.01	< 0.01	0
Totals:			357	0			

Table SWT 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
Coliform Bacteria	C001	0 number/100 ml	7,293	1	0	0	1
E coli	C002	0 number/100 ml	7,293	0	0	0	0
Totals:			14,586	1			

Table SWT 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 (Indicator)	C007	No abnormal change	7,291	-n/a	0	6
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	7,291	-n/a	0	6
Residual Disinfectant - Free	C009	No abnormal change	7,300	-n/a	0.34	1.2599
Residual Disinfectant - Total	C010	No abnormal change	7,300	-n/a	0.38	1.3
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(7,300)	-n/a	0	0.18
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	7,295	0	< 0.1	0.3704
Totals:			36,477	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 SWT 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	13,187	5	0	0	0
E coli	C002	0 number/100 ml	13,187	0	0	0	0
Totals:			26,374	5			

Table SWT 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	13,181	-n/a	0	178
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	13,181	-n/a	0	54
Residual Disinfectant - Free	C009	No abnormal change	13,189	-n/a	0.04	0.94
Residual Disinfectant - Total	C010	No abnormal change	13,190	-n/a	0.1	0.9709
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(13,189)	-n/a	0	0.17
Totals:			52,741	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 SWT 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	337	0	< 0.007	0.019988	0
Cyanide	B003	50 µg CN/l	321	0	< 1	1.634	0
Fluoride	A027	1.5 mg F/l	337	0	< 0.008	0.17562	0
Mercury	B005	1 µg Hg/l	337	0	< 0.03	0.0695	0
Pesticides - Total Substances	B010	0.5 µg/l	416	0	0	0.03683	0
Pesticides 2,4,-Db	P082	0.1 µg/l	367	0	< 0.003	< 0.00556	0
Pesticides 2,4-D	P020	0.1 µg/l	373	0	< 0.006	< 0.0073	0
Pesticides Atrazine	P004	0.1 µg/l	338	0	< 0.011	0.04005	0
Pesticides Azoxystrobin	P227	0.1 µg/l	338	0	< 0.006	< 0.006	0
Pesticides Benazolin	P138	0.1 µg/l	356	0	< 0.004	< 0.00658	0
Pesticides Bentazone	P006	0.1 µg/l	356	0	< 0.009	< 0.009	0
Pesticides Boscalid	P231	0.1 µg/l	338	0	< 0.009	0.02844	0
Pesticides Bromoxynil	P008	0.1 µg/l	365	0	< 0.003	< 0.008	0
Pesticides Carbendazim	P150	0.1 µg/l	338	0	< 0.005	< 0.005	0
Pesticides Chlorothalonil	P015	0.1 µg/l	336	0	< 0.005	< 0.005	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	349	0	< 0.006	< 0.006	0
Pesticides Chlortoluron	P014	0.1 µg/l	338	0	< 0.004	< 0.004	0
Pesticides Clopyralid	P018	0.1 µg/l	371	0	< 0.004	0.00784	0
Pesticides Cyprodinil	P228	0.1 µg/l	342	0	< 0.004	< 0.004	0
Pesticides Cyromazine	P223	0.1 µg/l	337	0	< 0.012	< 0.012	0
Pesticides Diazinon	P024	0.1 µg/l	340	0	< 0.005	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	377	0	< 0.004	< 0.00488	0
Pesticides Dichlobenil	P098	0.1 µg/l	343	0	< 0.004	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	365	0	< 0.003	< 0.00504	0
Pesticides Dieldrin	P028	0.03 µg/l	347	0	< 0.004	< 0.00452	0
Pesticides Diflufenican	P157	0.1 µg/l	349	0	< 0.005	< 0.005	0
Pesticides Diuron	P032	0.1 µg/l	338	0	< 0.007	< 0.007	0
Pesticides Epoxyconazole	P217	0.1 µg/l	344	0	< 0.005	< 0.01	0
Pesticides Fenpropimorph	P037	0.1 µg/l	349	0	< 0.004	< 0.004	0
Pesticides Fluroxypyr	P040	0.1 µg/l	348	0	< 0.005	< 0.01061	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	345	0	< 0.004	< 0.004	0
Pesticides Ioxynil	P049	0.1 µg/l	345	0	< 0.003	< 0.008	0
Pesticides Isoproturon	P048	0.1 µg/l	338	0	< 0.005	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	338	0	< 0.009	< 0.009	0
Pesticides MCPA	P054	0.1 µg/l	383	0	< 0.006	< 0.0068	0
Pesticides MCPB	P055	0.1 µg/l	371	0	< 0.004	< 0.00568	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	367	0	< 0.003	< 0.0046	0
Pesticides Metamitron	P194	0.1 µg/l	338	0	< 0.014	< 0.014	0
Pesticides Pendimethalin	P118	0.1 µg/l	336	0	< 0.006	< 0.006	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 Pentachlorophenol	P060	0.1 µg/l	378	0	< 0.004	< 0.005	0
Pesticides Picloram	P122	0.1 µg/l	352	0	< 0.006	< 0.00882	0
Pesticides Propamocarb	P238	0.1 µg/l	338	0	< 0.004	< 0.004	0
Pesticides Propyzamide	P071	0.1 µg/l	338	0	< 0.004	< 0.025	0
Pesticides Simazine	P073	0.1 µg/l	338	0	< 0.004	< 0.004	0
Pesticides Tebuconazole	P177	0.1 µg/l	338	0	< 0.006	< 0.024	0
Pesticides Trichlopyr	P131	0.1 µg/l	344	0	< 0.006	< 0.00765	0
Radon	F031	100 Bq/l	190	0	< 0.5	13.99	0
Totals:			16,267	0			

Table SWT 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	332	0	9	50.67
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	1,999	1	0	0
Conductivity (Indicator)	D001	2500 µS/cm	1,999	0	67.5	494
Gross Alpha Activity	F004	0.1 Bq/l	2	0	0.077	0.094
Gross Beta Activity	F005	1 Bq/l	2	0	0.086	0.108
Sulphate (Indicator)	A007	250 mg SO ₄ /l	332	0	< 2	48.122
Total organic carbon (indicator)	A017	No abnormal change	331	-n/a	< 0.2164	8.074
Totals:			4,997	1		

Table SWT 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	379	0	< 0.2	< 0.2	0
Antimony	B008A	5 µg Sb/l	380	0	< 0.26	0.9619	0
Arsenic	B001A	10 µg As/l	380	0	< 0.2	0.9138	0
Benzene	F002	1 µg/l	379	0	< 0.1	< 0.1	0
Benzo (a) Pyrene	D007	0.01 µg/l	385	0	< 0.001	< 0.001	0
Bromate	F003	10 µg BrO ₃ /l	381	0	< 2.4	4.19	0
Cadmium	B002	5 µg Cd/l	378	0	< 0.25	< 0.25	0
Chromium	B004	50 µg Cr/l	378	0	< 0.4	0.71882	0
Copper	A024A	2 mg Cu/l	383	0	< 0.002	0.2862	0
E coli	C002	0 number/100 ml	4,657	0	0	0	0
Enterococci	C003	0 number/100 ml	378	1	0	0	1
Lead (>10 µg/l)	B007B	10 µg Pb/l	386	1	< 0.2	4.3017	1
Nickel	B006A	20 µg Ni/l	386	2	< 1	14.332	2
Nitrate	A012	50 mg NO ₃ /l	381	0	< 3.4	38.0342	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	381	0	0	0.7572	0
Nitrite (Consumers tap)	A013A	0.5 mg NO ₂ /l	381	0	< 0.01	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	363	0	0	0.00336	0
Selenium	B009	10 µg Se/l	380	0	< 0.15	0.9538	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	378	0	0	0.9	0
Total Trihalomethanes	D011	100 µg/l	375	0	1.076	77.04	0
Totals:			11,869	4			

Table SWT 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	1,611	0	< 7	60.552	0
Colour	A001	20 mg/l Pt/Co scale	1,614	0	< 0.2	1.885	0
Iron	A022	200 µg Fe/l	1,611	3	< 6.5	80.288	2
Manganese	A023	50 µg Mn/l	1,611	1	< 2	13.1	1
Organoleptic Odour	A003	0 Dilution number	1,614	4	0	0	4
Organoleptic Taste	A004	0 Dilution number	1,595	2	0	0	2
Sodium	A009	200 mg Na/l	378	0	4.479	23.21	0
Tetrachloromethane	D008	3 µg/l	377	0	< 0.1	< 0.2	0
Turbidity	A002	4 nephelometric turbidity units	1,614	4	< 0.1	0.4885	0
Totals:			12,025	10			

Table SWT 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	1,611	0	< 0.01	0.06
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	4,657	8	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	4,652	-n/a	0	61
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	4,652	-n/a	0	56
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	1,613	0	7.3	9.1
Residual Disinfectant - Free	C009	No abnormal change	4,658	-n/a	0.03	0.9541
Residual Disinfectant - Total	C010	No abnormal change	4,658	-n/a	0.0859	1.0141
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(4,658)	-n/a	0	0.18
Totals:			26,501	8		

*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'.