

## Data Summary Tables for Southern Water Services Ltd (SRN)

These tables contain a summary of results of monitoring undertaken by the water company in 2012 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 2012*.

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 Southern Water Services Ltd

Report Date Range: For the whole year 2012

**Table SRN 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 <sub>2</sub> /l	617	0	< 0.00656	0.01312	0
<b>Totals:</b>			<b>617</b>	<b>0</b>			

**Table SRN 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	8,181	2	0	0	2
<i>Cryptosporidium</i>	C111	-(n/a)	12	-n/a			
<i>E.coli</i>	C002	0 number/100 ml	8,181	0	0	0	0
<b>Totals:</b>			<b>16,374</b>	<b>2</b>			

**Table SRN 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	8,152	-n/a	0	6
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	8,155	-n/a	0	15
Residual Disinfectant - Free	C009	No abnormal change	8,196	-n/a	0.27	0.9403
Residual Disinfectant - Total	C010	No abnormal change	8,196	-n/a	0.32	1.03
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(8,196)	-(n/a)	0.01	0.68
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	8,905	1	< 0.08	0.32
<b>Totals:</b>			<b>41,604</b>	<b>1</b>		

\*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 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
Coliform Bacteria	C001	0 number/100 ml	10,440	3	0	0	0
<i>E.coli</i>	C002	0 number/100 ml	10,440	0	0	0	0
<b>Totals:</b>			<b>20,880</b>	<b>3</b>			

**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 22°C (Indicator)	C007	No abnormal change	10,399	-n/a	0	8
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	10,414	-n/a	0	17
Residual Disinfectant - Free	C009	No abnormal change	10,447	-n/a	0.1	0.72
Residual Disinfectant - Total	C010	No abnormal change	10,447	-n/a	0.16	0.78
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(10,447)	-(n/a)	0.01	0.45
<b>Totals:</b>			<b>41,707</b>	<b>0</b>		

\*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 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
Bromate	F003	10 µg BrO <sub>3</sub> /l	617	1	< 0.5	3.5546	1
Pesticides - Total Substances	B010	0.5 µg/l	616	1	0	0.0863	1
Pesticides 2,4-D	P020	0.1 µg/l	617	0	< 0.011	< 0.011	0
Pesticides Alachlor	P240	0.1 µg/l	617	0	< 0.025	< 0.025	0
Pesticides Aldrin	P002	0.03 µg/l	617	0	< 0.003	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	617	0	< 0.003	0.02382	0
Pesticides Benazolin	P138	0.1 µg/l	617	0	< 0.009	< 0.009	0
Pesticides Bendiocarb	P174	0.1 µg/l	617	0	< 0.009	< 0.009	0
Pesticides Bentazone	P006	0.1 µg/l	617	0	< 0.008	< 0.00964	0
Pesticides Bromoxnyl	P008	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides Carbendazim	P150	0.1 µg/l	474	0	< 0.005	< 0.005	0
Pesticides Carbetamide	P010	0.1 µg/l	619	0	< 0.006	< 0.01	0
Pesticides Chlorfenvinphos	P013	0.1 µg/l	617	0	< 0.009	< 0.009	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	472	1	< 0.007	< 0.007	1
tetrachloroterephthalate)	P211	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	617	0	< 0.004	0.03292	0
Pesticides Clopyralid	P018	0.1 µg/l	617	0	< 0.019	< 0.019	0
Pesticides Cyanazine	P092	0.1 µg/l	617	0	< 0.007	< 0.008	0
Pesticides Diazinon	P024	0.1 µg/l	617	0	< 0.009	< 0.009	0
Pesticides Dicamba	P025	0.1 µg/l	617	0	< 0.013	< 0.013	0
Pesticides Dichlorprop	P026	0.1 µg/l	617	0	< 0.011	< 0.011	0
Pesticides Dieldrin	P028	0.03 µg/l	617	0	< 0.003	< 0.003	0
Pesticides Diflufenican	P157	0.1 µg/l	616	0	< 0.01	< 0.01	0
Pesticides Diuron	P032	0.1 µg/l	617	0	< 0.005	< 0.01	0
Pesticides Endosulfan A (alpha-Endosulfan)	P101	0.1 µg/l	616	0	< 0.005	< 0.005	0
Pesticides Fluroxypyr	P040	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides Flutriafol	P039	0.1 µg/l	617	0	< 0.007	0.01164	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	610	0	< 0.014	0.01978	0
Pesticides Heptachlor	P043	0.03 µg/l	617	0	< 0.003	< 0.003	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	617	0	< 0.003	0.00382	0
Pesticides Hexachlorobenzene	P045	0.1 µg/l	472	0	< 0.001	< 0.001	0
Pesticides Hexachlorobutadiene	P108	0.1 µg/l	616	0	< 0.01	< 0.01	0
Pesticides Ioxnyl	P049	0.1 µg/l	617	0	< 0.008	< 0.008	0
Pesticides Iprodione	P046	0.1 µg/l	618	0	< 0.013	< 0.013	0
Pesticides Isoproturon	P048	0.1 µg/l	617	0	< 0.003	< 0.008	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 Linuron	P051	0.1 µg/l	617	0	< 0.005	< 0.008	0
Pesticides Malathion	P052	0.1 µg/l	617	0	< 0.006	< 0.006	0
Pesticides MCPA	P054	0.1 µg/l	617	0	< 0.009	< 0.009	0
Pesticides MCPB	P055	0.1 µg/l	617	0	< 0.011	< 0.011	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	617	0	< 0.01	0.012	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	617	0	< 0.003	< 0.01	0
Pesticides op-DDT	P116	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	617	0	< 0.009	< 0.009	0
Pesticides PCB - Total	P137	0.1 µg/l	618	0	< 0.035	< 0.035	0
Pesticides Pendimethalin	P118	0.1 µg/l	472	0	< 0.007	< 0.007	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	619	0	< 0.009	< 0.009	0
Pesticides Pirimicarb	P064	0.1 µg/l	617	0	< 0.003	< 0.005	0
Pesticides pp-DDD (TDE)	P123	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides pp-DDE	P124	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides pp-DDT	P125	0.1 µg/l	617	0	< 0.01	< 0.01	0
Pesticides Prometryn	P070	0.1 µg/l	617	0	< 0.003	< 0.004	0
Pesticides Propazine	P066	0.1 µg/l	617	0	< 0.004	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	617	1	< 0.006	0.009952	1
Pesticides Simazine	P073	0.1 µg/l	617	0	< 0.004	0.012	0
Pesticides Terbutryn	P077	0.1 µg/l	617	0	< 0.003	< 0.005	0
Pesticides Tri-allate	P079	0.1 µg/l	617	0	< 0.007	< 0.007	0
Pesticides Trichlopyr	P131	0.1 µg/l	617	0	< 0.015	< 0.015	0
Pesticides Trietazine	P132	0.1 µg/l	617	0	< 0.006	0.008	0
Pesticides Trifluralin	P081	0.1 µg/l	617	0	< 0.01	< 0.01	0
<b>Totals:</b>			<b>36,437</b>	<b>4</b>			

**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)
<i>Clostridium perfringens</i> (indicator)	C004A	0 number/100 ml	1,075	6	0	0
Conductivity (Indicator)	D001	2500 µS/cm	1,459	0	285	729.8
Gross Alpha Activity	F004	0.1 Bq/l	572	0	< 0.02	0.053
Gross Beta Activity	F005	1 Bq/l	570	0	< 0.04	0.15245
Tritium (Indicator)	F006	100 Bq/l	583	0	< 10	< 10
<b>Totals:</b>			<b>4,259</b>	<b>6</b>		

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	F001	3 µg/l	595	0	< 0.12	< 0.12	0
Antimony	B008A	5 µg Sb/l	596	0	< 0.4	< 0.4	0
Arsenic	B001A	10 µg As/l	596	0	< 0.5	0.7	0
Benzene	F002	1 µg/l	596	0	< 0.07	0.1	0
Benzo (a) Pyrene	D007	0.01 µg/l	596	0	< 0.0005	0.0016478	0
Boron	D005A	1 mg B/l	597	0	< 0.005	0.0741	0
Bromate	F003	10 µg BrO3/l	76	0	< 0.5	3.54	0
Cadmium	B002	5 µg Cd/l	595	0	< 0.2	< 0.25	0
Chromium	B004	50 µg Cr/l	595	0	< 0.4	1.216	0
Copper	A024A	2 mg Cu/l	597	0	< 0.004	0.78708	0
Cyanide	B003	50 µg CN/l	584	0	< 1.2	1.2	0
<i>E.coli</i>	C002	0 number/100 ml	6,316	1	0	0	1
Enterococci	C003	0 number/100 ml	596	0	0	0	0
Fluoride	A027	1.5 mg F/l	595	0	0.033012	0.27612	0
Lead	B007A	25 µg Pb/l	597	0	< 0.4	7.1946	0
Mercury	B005	1 µg Hg/l	596	0	< 0.002	0.03327	0
Nickel	B006A	20 µg Ni/l	597	0	< 0.5	11	0
Nitrate	A012	50 mg NO3/l	596	0	2.25412	45.186	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	599	0	0.0235	0.904	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	592	0	< 0.00656	0.0133496	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	596	0	0	0.002724	0
Selenium	B009	10 µg Se/l	596	0	< 0.3	1.5	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	598	0	0	1.0003	0
Total Trihalomethanes	D011	100 µg/l	595	2	0	92.904	2
<b>Totals:</b>			<b>19,492</b>	<b>3</b>			

**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	A021	200 µg Al/l	1,164	0 < 4	50	0	
Colour	A001	20 mg/l Pt/Co scale	1,474	0 < 0.9	5.525	0	
Iron	A022	200 µg Fe/l	1,596	2 < 6	89	2	
Manganese	A023	50 µg Mn/l	1,081	0 < 1	6.918	0	
Organoleptic Odour	A003	0 Dilution number	1,557	19 0	1	8	
Organoleptic Taste	A004	0 Dilution number	1,558	32 0	1	12	
Sodium	A009	200 mg Na/l	596	0 6.1	55.09	0	
Tetrachloromethane	D008	3 µg/l	597	0 < 0.07	0.13	0	
Turbidity	A002	4 nephelometric turbidity units	1,292	0 < 0.08	0.3807	0	
<b>Totals:</b>			<b>10,915</b>	<b>53</b>			

**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 (Indicator)	A014	0.5 mg NH <sub>4</sub> /l	1,405	0 < 0.0645	< 0.0645	
Chloride (Indicator)	D002A	250 mg Cl/l	596	0 12.988	71.551	
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,316	8 0	0	
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	2,341	-n/a 0	21	
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	2,340	-n/a 0	83	
Conductivity (Indicator)	D001	2500 µS/cm	1,176	0 295.77	684.15	
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	1,203	0 7.03	7.84	
Residual Disinfectant - Free	C009	No abnormal change	6,320	-n/a 0.04	0.62	
Residual Disinfectant - Total	C010	No abnormal change	6,320	-n/a 0.11	0.69	
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(6,320)	-(n/a) 0.01	0.46	
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	596	0 6.097	75.406	
Total organic carbon (indicator)	A017	No abnormal change	596	-n/a 0.2	3.403	
<b>Totals:</b>			<b>29,209</b>	<b>8</b>		

\*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'.