

Data Summary Tables for Southern Water Services Ltd (SRN)

These tables contain a summary of results of monitoring undertaken by the water company in 2006 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 2006'.

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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Drinking Water Inspectorate
55, Whitehall
London
SW1A 2EY

Enquiries : 020 7082 8024

Data Summary 2006 for SOUTHERN WATER SERVICES LTD (SRN)

Table SRN 1: Quality of water leaving treatment works - European Standards

Parameter	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	A013B	0.1 mg NO ₂ /l	651	0	<0.0131	0.015828	0
TOTAL	-	-	651	0	-	-	-

Table SRN 2: Quality of water leaving treatment works - National Standards

Parameter	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	11299	13	0	0	11
Cryptosporidium	C111	ooocysts >1 in10 litres	3557	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	11299	1	0	0	1
TOTAL	-	-	26155	14	-	-	-

Table SRN 3: Quality of water leaving treatment works - Additional Monitoring Requirements

Indicator Parameter	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	C007	No abnormal change	11285	n/a	0	44
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	11268	n/a	0	13
Residual Disinfectant - Free	C009	No abnormal change	11283	n/a	0.18	0.78
Residual Disinfectant - Total	C010	No abnormal change	11290	n/a	0.21	0.92
Turbidity	A002A	1 NTU	13251	30	0.068	0.49248
TOTAL	-	-	58377	30	-	-

Table SRN 4: Quality of water leaving service reservoirs - National Standards

Parameter	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	10729	6	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	10729	0	0	0	0
TOTAL	-	-	21458	6	-	-	-

Table SRN 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Indicator Parameter	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	C007	No abnormal change	10726	n/a	0	220
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	10710	n/a	0	50
Residual Disinfectant - Free	C009	No abnormal change	10725	n/a	0.08	0.57
Residual Disinfectant - Total	C010	No abnormal change	10727	n/a	0.11	0.66
TOTAL	-	-	42888	0	-	-

Table SRN 6: Quality of water leaving bulk supply points - European Standards

Parameter	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	25	0	<0.1	0.1	0
Benzene	F002	1 µg/l	24	0	<0.12	0.12	0
Boron	D005A	1 mg B/l	24	0	<0.04	0.0674	0
Bromate	F003	10 µg BrO ₃ /l	651	2	<0.8	8.7752	2
Cyanide	B003	50 µg CN/l	24	0	<5	5	0
Fluoride	A027	1.5 mg F/l	24	0	<0.05	0.288	0
Mercury	B005	1 µg Hg/l	24	0	<0.002	0.011	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	24	0	0	1	0
Pesticides (2,4-D)	P020	µg/l	8	0	<0.01	0.011	0
Pesticides (Aldrin)	P002	µg/l	24	0	<0.003	0.003	0
Pesticides (Atrazine)	P004	µg/l	24	0	<0.002	0.017	0
Pesticides (Carbetamide)	P010	µg/l	24	0	<0.005	0.012	0
Pesticides (Chlortoluron)	P014	µg/l	24	0	<0.003	0.003	0
Pesticides (Dieldrin)	P028	µg/l	24	0	<0.003	0.003	0
Pesticides (Heptachlor)	P043	µg/l	24	0	<0.003	0.003	0
Pesticides (Heptachlor epoxide)	P044	µg/l	24	0	<0.003	0.003	0
Pesticides (Isoproturon)	P048	µg/l	24	0	<0.003	0.016	0
Pesticides (MCPA)	P054	µg/l	24	0	<0.009	0.01	0
Pesticides (MCPP(Mecoprop))	P053	µg/l	24	0	<0.01	0.015	0
Pesticides (PCB - Total)	P137	µg/l	24	0	<0.035	0.035	0
Pesticides (Pentachlorophenol)	P060	µg/l	24	0	<0.009	0.015	0
Pesticides (Propazine)	P066	µg/l	24	0	<0.004	0.011	0
Pesticides (Simazine)	P073	µg/l	24	0	<0.009	0.026	0
Pesticides (Trietazine)	P132	µg/l	24	0	<0.003	0.003	0
Pesticides (Trifluralin)	P081	µg/l	24	0	<0.01	0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	24	0	0	0.047	0
TOTAL	-	-	1236	2	-	-	-

Table SRN 7: Quality of water leaving bulk supply points - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	Failures by supply point
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Tetrachloromethane	D008	3 µg/l	24	0	<0.1	0.16	0
TOTAL	-	-	24	0	-	-	-

Table SRN 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	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	24	0	18.2	43.5
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1221	3	0	0
Conductivity	D001	2500 µS/cm	1425	0	318.52	757.4
Radioactivity - Gross Alpha	F004	0.1 Bq/l	238	0	<0.03	0.064474
Radioactivity - Gross Beta	F005	1 Bq/l	238	0	<0.03	0.19315
Radioactivity - Tritium	F006	100 Bq/l	238	0	<10	<10
Sulphate	A007	250 mg SO ₄ /l	24	0	9.57	36.4
Total Organic Carbon (TOC)	A017	No abnormal change	24	n/a	0.428	2.14
TOTAL	-	-	3432	3	-	-

Table SRN 9: Quality of water at consumer's tap (zones) - European Standards

Parameter	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 with failures
1,2 Dichloroethane	F001	3 µg/l	536	0	<0.1	<0.1	0
Antimony	B008A	5 µg Sb/l	584	1	0.02	<0.4	1
Arsenic	B001A	10 µg As/l	584	0	0.197	1.624	0
Benzene	F002	1 µg/l	536	0	<0.12	<0.12	0
Benzo (a) Pyrene	D007	0.01 µg/l	587	0	<0.001	0.001572	0
Boron	D005A	1 mg B/l	532	0	<0.04	0.11734	0
Bromate	F003	10 µg BrO ₃ /l	52	0	0.8	8.79	0
Cadmium	B002	5 µg Cd/l	584	0	<0.07	<0.5	0
Chromium	B004	50 µg Cr/l	584	0	0.1755	2.8725	0
Copper	A024A	2 mg Cu/l	584	1	0.001365	0.8859	1
Cyanide	B003	50 µg CN/l	531	0	<5	5	0
<i>E. coli</i>	C002	0 number/100 ml	6079	2	0	0	2
Enterococci	C003	0 number/100 ml	584	0	0	0	0
Fluoride	A027	1.5 mg F/l	532	0	<0.05	0.30078	0
Lead	B007A	25 µg Pb/l	584	2	<0.5	9.29	2
Mercury	B005	1 µg Hg/l	533	0	<0.002	0.00832	0
Nickel	B006A	20 µg Ni/l	584	0	1.055	7.9	0
Nitrate	A012	50 mg NO ₃ /l	584	0	1.16046	41.0063	0
Nitrite	A013A	0.5 mg NO ₂ /l	584	0	<0.0131	0.01479	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	584	0	0.02324	0.82035	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	586	0	0	0.005613	0
Selenium	B009	10 µg Se/l	584	0	0.4	2	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	536	1	0	3	1
Trihalomethanes (THMs)	D011	100 µg/l	586	0	1.87	77	0
Pesticides (2,4-D)	P020	µg/l	102	1	<0.01	0.34186	1
Pesticides (Aldrin)	P002	µg/l	535	0	<0.003	<0.003	0
Pesticides (Atrazine)	P004	µg/l	538	0	<0.002	0.03261	0
Pesticides (Carbetamide)	P010	µg/l	534	0	<0.005	0.0212	0
Pesticides (Chlortoluron)	P014	µg/l	542	2	<0.003	0.0177	2
Pesticides (Dieldrin)	P028	µg/l	535	0	<0.003	<0.003	0
Pesticides (Diuron)	P032	µg/l	24	0	<0.005	<0.011	0
Pesticides (Gamma-HCH (Lindane))	P041	µg/l	3	0	<0.01	<0.01	0
Pesticides (Heptachlor)	P043	µg/l	534	0	<0.003	<0.003	0
Pesticides (Heptachlor epoxide)	P044	µg/l	532	0	<0.003	<0.003	0
Pesticides (Isoproturon)	P048	µg/l	542	0	<0.003	0.01457	0
Pesticides (Linuron)	P051	µg/l	8	0	<0.004	<0.004	0

Pesticides (MCPA)	P054	µg/l	532	1	<0.009	0.018603	1
Pesticides (MCPB)	P055	µg/l	8	0	<0.01	<0.011	0
Pesticides (MCP (Mecoprop))	P053	µg/l	532	1	<0.01	0.052149	1
Pesticides (PCB - Total)	P137	µg/l	535	0	<0.035	<0.035	0
Pesticides (Pentachlorophenol)	P060	µg/l	532	0	<0.009	<0.015	0
Pesticides (pp-DDE)	P124	µg/l	3	0	<0.01	<0.01	0
Pesticides (pp-DDT)	P125	µg/l	3	0	<0.01	<0.01	0
Pesticides (Prometryn)	P070	µg/l	6	0	<0.002	<0.002	0
Pesticides (Propazine)	P066	µg/l	539	0	<0.004	0.012	0
Pesticides (Simazine)	P073	µg/l	539	0	<0.009	0.0436	0
Pesticides (Terbutryn)	P077	µg/l	11	0	<0.003	<0.003	0
Pesticides (Trietazine)	P132	µg/l	539	0	<0.003	0.00896	0
Pesticides (Trifluralin)	P081	µg/l	535	0	<0.01	<0.01	0
Pesticides - Total Substances	B010	0.5 µg/l	532	1	0	0.19715	1
TOTAL	-	-	27909	13	-	-	-

Table SRN 10: Quality of water at consumer's tap (zones) - National Standards

Parameter	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 with failures
Aluminium	A021	200 µg Al/l	1164	2	<3	49.35	2
Colour	A001	20 mg/l Pt/Co scale	1207	1	<0.69	4.4244	1
Hydrogen ion (pH)	A006	6.5 -10 pH value	1794	1	7	8.02	1
Iron	A022	200 µg Fe/l	1458	6	5	133.92	5
Manganese	A023	50 µg Mn/l	1082	0	<0.7	9.338	0
Organoleptic Odour	A003	Dilution no. 3 at 25°C	1278	1	0	0	1
Organoleptic Taste	A004	Dilution no. 3 at 25°C	1178	0	0	0	0
Sodium	A009	200 mg Na/l	584	0	5.4595	144.3	0
Tetrachloromethane	D008	3 µg/l	535	0	<0.1	0.27424	0
Turbidity	A002	4 NTUs	1237	0	0.07	0.48662	0
TOTAL	-	-	11517	11	-	-	-

Table SRN 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
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Ammonium	A014	0.5 mg NH ₄ /l	1151	0	<0.0387	<0.0387
Chloride	D002A	250 mg Cl/l	532	0	10.433	78.101
Coliform Bacteria	C001A	0 number/100 ml	6079	12	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1965	n/a	0	123
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1956	n/a	0	165
Conductivity	D001	2500 µS/cm	1004	0	337	681.95
Hydrogen ion (pH)	A006A	9.5 pH Value	1794	0	7	8.02
Residual Disinfectant - Free	C009	No abnormal change	6079	n/a	0.03	0.52
Residual Disinfectant - Total	C010	No abnormal change	6080	n/a	0.07	0.63
Sulphate	A007	250 mg SO ₄ /l	532	0	2.6293	90.391
Total Organic Carbon (TOC)	A017	No abnormal change	532	n/a	0.2253	3.1767
TOTAL	-	-	27704	12	-	-