

## **Data Summary Tables for Southern Water (SRN)**

These tables represent a summary of test results from water samples taken by the water company in 2005 and submitted to the Drinking Water Inspectorate.

These tables are published annually by the Inspectorate as part of the Chief Inspector's Report. They are available on the Inspectorate's website at [www.dwi.gov.uk](http://www.dwi.gov.uk)

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed "Maximum" and "Minimum" contain figures for the 1 percentile and 99 percentile sample results 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

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

Number of treatment works = 93

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO <sub>2</sub> /l	673	0	<0.013	<0.013	0
<b>TOTAL</b>	-	<b>673</b>	<b>0</b>	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	0 number/100 ml	6865	4	0	0	4
Cryptosporidium	Oocyst concentration / 10 l	3285	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	6865	0	0	0	0
<b>TOTAL</b>	-	<b>17015</b>	<b>4</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	6857	0	0	118
Colony Counts After 48 Hours At 37°C	No abnormal change	6857	0	0	23
Residual Disinfectant - Free	No abnormal change	6868	0	0.14	0.76
Residual Disinfectant - Total	No abnormal change	6868	0	0.18	0.92
Turbidity	1 NTU	12879	38	0.07	0.551
<b>TOTAL</b>	-	<b>40329</b>	<b>38</b>	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	10777	13	0	0	0*
<i>E. coli</i>	0 number/100 ml	10777	1	0	0	1
<b>TOTAL</b>	-	<b>21554</b>	<b>14</b>	-	-	-

\* RH001 ABBOTSTONE DOWN 1 WSR, RH003 ABBOTSTONE DOWN 2 WEST WSR, RH011 BROUGHTON DOWN 2 WSR, RH015 COTTINGTONS HILL WSR, RH027 MICHELMERSH 1 WSR, RS045 HIGH SALVINGTON WSR, RS073 ST ANNES 2 LEWES WSR breach(es) regulation 14 for an unjustified sampling shortfall

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	10775	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	10775	0	70
Residual Disinfectant - Free	No abnormal change	10780	0.05	0.5519
Residual Disinfectant - Total	No abnormal change	10780	0.1	0.68
<b>TOTAL</b>	-	<b>43110</b>	-	-

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

Number of supply points = 93

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	24	0	<0.1	<0.1	0
Benzene	1 µg/l	24	0	<0.06	<0.12	0
Boron	1 mg B/l	24	0	<0.04	0.079	0
Bromate	10 µg BrO <sub>3</sub> /l	672	1	<1	<1.27	1
Cyanide	50 µg CN/l	24	0	<5	5	0
Fluoride	1.5 mg F/l	24	0	0.07	0.154	0
Mercury	1 µg Hg/l	24	0	<0.002	0.004	0
Tetrachloroethene/Trichloroethene	10 µg/l	24	0	0	0	0
Pesticides (2,4-D)	0.1 µg/l	24	0	<0.01	0.029	0
Pesticides (Aldrin)	0.03 µg/l	28	0	<0.003	<0.003	0
Pesticides (Atrazine)	0.1 µg/l	25	0	0.003	0.026	0
Pesticides (Carbetamide)	0.1 µg/l	24	0	<0.005	0.025	0
Pesticides (Chlorthal-Dimethyl (dimethyl tetrachlorotereph	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	24	0	<0.003	<0.01	0
Pesticides (Dicamba)	0.1 µg/l	24	0	<0.01	<0.01	0
Pesticides (Dichlorprop)	0.1 µg/l	24	0	<0.01	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	28	0	<0.003	<0.003	0
Pesticides (Diflufenican)	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (Diuron)	0.1 µg/l	24	0	<0.005	<0.01	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (Heptachlor)	0.03 µg/l	28	0	<0.003	<0.003	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	28	0	<0.003	0.005	0
Pesticides (Isoproturon)	0.1 µg/l	24	0	<0.003	<0.01	0
Pesticides (Linuron)	0.1 µg/l	24	0	<0.004	<0.01	0
Pesticides (MCPA)	0.1 µg/l	24	0	<0.01	<0.01	0
Pesticides (MCPB)	0.1 µg/l	24	0	<0.01	<0.01	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	24	0	<0.01	0.029	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	24	0	<0.003	<0.01	0
Pesticides (op-DDT)	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (PCB - Total)	0.1 µg/l	28	0	<0.035	<0.035	0
Pesticides (Pentachlorophenol)	0.1 µg/l	24	0	<0.015	0.022	0
Pesticides (Pirimicarb)	0.1 µg/l	24	0	<0.002	<0.01	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (pp-DDE)	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (pp-DDT)	0.1 µg/l	28	0	<0.01	<0.01	0
Pesticides (Prometryn)	0.1 µg/l	24	0	<0.002	<0.01	0

Pesticides (Propazine)	0.1 µg/l	25	0	<0.004	<0.01	0
Pesticides (Simazine)	0.1 µg/l	25	0	<0.009	0.023	0
Pesticides (Terbutryn)	0.1 µg/l	24	0	<0.003	<0.01	0
Pesticides (Trichlopyr)	0.1 µg/l	24	0	<0.01	<0.01	0
Pesticides (Trietazine)	0.1 µg/l	25	0	<0.003	<0.01	0
Pesticides (Trifluralin)	0.1 µg/l	26	0	<0.01	<0.01	0
Pesticides - Total Substances	0.5 µg/l	24	0	0	0.065	0
<b>TOTAL</b>	-	<b>1734</b>	<b>1</b>	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	3 µg/l	24	0	<0.12	0.143	0
<b>TOTAL</b>	-	<b>24</b>	<b>0</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Chloride	250 mg Cl/l	24	0	17.3	38.7
<i>Clostridium perfringens</i>	0 number/100 ml	1418	5	0	0
Conductivity	2500 µS/cm	2845	0	320	852.54
Radioactivity - Gross Alpha	0.1 Bq/l	199	0	<0.03	0.07
Radioactivity - Gross Beta	1 Bq/l	199	0	<0.03	0.22
Radioactivity - Tritium	100 Bq/l	195	0	<10	<10.52
Sulphate	250 mg SO <sub>4</sub> /l	24	0	11.2	34.3
Total Organic Carbon (TOC)	No abnormal change	25	0	0.449	2.11
<b>TOTAL</b>	-	<b>4929</b>	<b>5</b>	-	-

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

Number of zones = 83

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	536	0	<0.1	<0.1	0
Antimony	5 µg Sb/l	584	0	<0.4	<0.4	0
Arsenic	10 µg As/l	584	0	<0.4	3.69	0
Benzene	1 µg/l	536	0	<0.06	<0.12	0
Benzo (a) Pyrene	0.01 µg/l	584	0	<0.001	0.0012	0
Boron	1 mg B/l	532	0	<0.04	0.104	0
Bromate	10 µg BrO <sub>3</sub> /l	44	0	<1	<10	0
Cadmium	5 µg Cd/l	584	0	<0.5	<0.5	0
Chromium	50 µg Cr/l	584	1	<0.6	9.59	0
Copper	2 mg Cu/l	584	1	<0.004	0.738	1
Cyanide	50 µg CN/l	533	0	<5	<5	0
<i>E. coli</i>	0 number/100 ml	6052	5	0	0	4
Enterococci	0 number/100 ml	672	1	0	0	1
Fluoride	1.5 mg F/l	532	0	0.057	0.297	0
Lead	25 µg Pb/l	584	0	<1	11.45	0
Mercury	1 µg Hg/l	532	0	<0.002	0.011	0
Nickel	20 µg Ni/l	584	3	<2	9.15	3
Nitrate	50 mg NO <sub>3</sub> /l	584	0	<2.182	44.366	0
Nitrite	0.5 mg NO <sub>2</sub> /l	586	0	<0.013	<0.013	0
Nitrate/Nitrite Formula	≤ 1	584	0	<0.044	0.887	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	584	0	0	0.003	0
Selenium	10 µg Se/l	584	0	<1	2	0
Tetrachloroethene/Trichloroethene	10 µg/l	540	0	0	3	0
Trihalomethanes (THMs)	100 µg/l	594	2	0.977	75.2	1
Pesticides (2,4-D)	0.1 µg/l	535	0	<0.01	0.024	0
Pesticides (Aldrin)	0.03 µg/l	554	0	<0.003	<0.003	0
Pesticides (Atrazine)	0.1 µg/l	538	0	<0.002	0.041	0
Pesticides (Carbetamide)	0.1 µg/l	538	0	<0.005	0.044	0
Pesticides (Chlorthal-Dimethyl (dimethyl tetrachlorotereph	0.1 µg/l	555	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	538	0	<0.003	<0.011	0
Pesticides (Dicamba)	0.1 µg/l	536	0	<0.01	<0.01	0
Pesticides (Dichlorprop)	0.1 µg/l	535	0	<0.01	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	555	0	<0.003	<0.003	0
Pesticides (Diflufenican)	0.1 µg/l	555	0	<0.01	<0.01	0
Pesticides (Diuron)	0.1 µg/l	538	0	<0.005	0.01	0

Pesticides (Flusilazole)	0.1 µg/l	68	0	<0.004	0.0197	0
Pesticides (Flutriafol)	0.1 µg/l	68	0	<0.004	0.039	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	554	0	<0.01	<0.01	0
Pesticides (Heptachlor)	0.03 µg/l	555	0	<0.003	<0.003	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	555	0	<0.003	<0.01	0
Pesticides (Isoproturon)	0.1 µg/l	538	0	<0.003	<0.01	0
Pesticides (Linuron)	0.1 µg/l	538	0	<0.004	<0.01	0
Pesticides (MCPA)	0.1 µg/l	535	0	<0.01	0.02	0
Pesticides (MCPB)	0.1 µg/l	535	0	<0.01	<0.01	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	535	1	<0.01	0.044	1
Pesticides (Methabenzthiazuron)	0.1 µg/l	538	0	<0.003	<0.01	0
Pesticides (op-DDT)	0.1 µg/l	555	0	<0.01	<0.01	0
Pesticides (PCB - Total)	0.1 µg/l	554	0	<0.035	<0.035	0
Pesticides (Pentachlorophenol)	0.1 µg/l	535	0	<0.015	<0.015	0
Pesticides (Pirimicarb)	0.1 µg/l	538	0	<0.002	<0.01	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	554	0	<0.01	<0.01	0
Pesticides (pp-DDE)	0.1 µg/l	555	0	<0.01	<0.01	0
Pesticides (pp-DDT)	0.1 µg/l	555	0	<0.01	<0.01	0
Pesticides (Prometryn)	0.1 µg/l	537	0	<0.002	<0.01	0
Pesticides (Propazine)	0.1 µg/l	538	0	<0.004	0.016	0
Pesticides (Propiconazole)	0.1 µg/l	68	0	<0.004	<0.01	0
Pesticides (Simazine)	0.1 µg/l	538	0	<0.009	0.058	0
Pesticides (Tebuconazole)	0.1 µg/l	68	0	<0.003	<0.01	0
Pesticides (Terbutryn)	0.1 µg/l	537	0	<0.003	<0.01	0
Pesticides (Triadimefon)	0.1 µg/l	68	0	<0.008	0.02	0
Pesticides (Trichlopyr)	0.1 µg/l	535	0	<0.01	<0.01	0
Pesticides (Trietazine)	0.1 µg/l	534	0	<0.003	0.019	0
Pesticides (Trifluralin)	0.1 µg/l	541	0	<0.01	<0.01	0
Pesticides - Total Substances	0.5 µg/l	532	0	0	0.137	0
<b>TOTAL</b>	-	<b>38035</b>	<b>14</b>	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/l	1099	1	<5	56	1
Colour	20 mg/l Pt/Co scale	1128	0	<0.69	2.944	0
Hydrogen ion (pH)	6.5 - 10 pH value	1498	1	6.899	8.1	1
Iron	200 µg Fe/l	1275	2	<10	120	2

Manganese	50 µg Mn/l	1063	0	<1	10	0
Organoleptic Odour	Dilution No. 3 at 25°C	1246	2	0	1	2
Organoleptic Taste	Dilution No. 3 at 25°C	1132	0	0	0	0
Sodium	200 mg Na/l	584	0	5.685	106.65	0
Tetrachloromethane	3 µg/l	540	0	<0.12	0.183	0
Turbidity	4 NTU	1189	1	0.079	0.586	1
<b>TOTAL</b>	-	<b>10754</b>	<b>7</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	0.5 mg NH <sub>4</sub> /l	1128	0	<0.039	<0.039
Chloride	250 mg Cl/l	532	0	11.432	87.981
<i>Clostridium perfringens</i>	0 number/100 ml	1339	0	0	0
Coliform Bacteria	0 number/100 ml	6052	22	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	2158	0	0	170
Colony Counts After 48 Hours At 37°C	No abnormal change	2157	0	0	120
Conductivity	2500 µS/cm	1007	0	345.16	798.44
Hydrogen ion (pH)	9.5 pH Value	1498	0	6.899	8.1
Residual Disinfectant - Free	No abnormal change	6056	0	0.03	0.52
Residual Disinfectant - Total	No abnormal change	6056	0	0.07	0.64
Sulphate	250 mg SO <sub>4</sub> /l	532	0	5.387	69.842
Total Organic Carbon (TOC)	No abnormal change	532	0	0.323	3.227
<b>TOTAL</b>	-	<b>29047</b>	<b>22</b>	-	-