

Data Summary Tables for Southern Water Services Ltd (SRN)

These tables contain a summary of results of monitoring undertaken by the water company in 2011 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 2011'.

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
Area 4a
Ergon House
Horseferry Road
London
SW1P 2AL

Enquiries : 0300 068 6400

Viewing Site Summary Data for Southern Water Services Ltd

Report Date Range: For the whole year 2011

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 (Works) | A013B | 0.1 mg NO ₂ /l | 555 | 1 | < 0.00656 | < 0.0464 | 1 |
| Totals: | | | 555 | 1 | | | |

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 |
|------------------------|----------------|-----------------------------------|-----------------------|--------------|---------------------------------------|--|----------------------------|
| Coliform Bacteria | C001 | 0 number/100 ml | 8,577 | 5 | 0 | 0 | 4 |
| <i>Cryptosporidium</i> | C111 | -(n/a) | 8 | -(n/a) | | | |
| <i>E. coli</i> | C002 | 0 number/100 ml | 8,577 | 1 | 0 | 0 | 1 |
| Totals: | | | 17,162 | 6 | | | |

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 (Indicator) | C007 | No abnormal change | 8,580 | -(n/a) | 0 | 10 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 8,572 | -(n/a) | 0 | 7 |
| Residual Disinfectant - Free | C009 | No abnormal change | 8,580 | -(n/a) | 0.3 | 0.93 |
| Residual Disinfectant - Total | C010 | No abnormal change | 8,579 | -(n/a) | 0.34 | 0.99 |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a) | -(n/a) | (8,579) | -(n/a) | 0.01 | 0.67 |
| Turbidity (Indicator) | A002A | 1 nephelometric turbidity units | 8,926 | 0 | 0.057 | 0.25273 |
| Totals: | | | 43,237 | 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 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 | 10,419 | 4 | 0 | 0 | 0 |
| <i>E. coli</i> | C002 | 0 number/100 ml | 10,419 | 0 | 0 | 0 | 0 |
| Totals: | | | 20,838 | 4 | | | |

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 | 10,425 | -(n/a) | 0 | 15 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 10,428 | -(n/a) | 0 | 8 |
| Residual Disinfectant - Free | C009 | No abnormal change | 10,414 | -(n/a) | 0.11 | 0.66 |
| Residual Disinfectant - Total | C010 | No abnormal change | 10,414 | -(n/a) | 0.16 | 0.73 |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a) | -(n/a) | (10,414) | -(n/a) | 0.01 | 0.44 |
| Totals: | | | 41,681 | 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 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 BrO3/l | 606 | 0 | < 0.2 | 2.7486 | 0 |
| Pesticides - Total Substances | B010 | 0.5 µg/l | 606 | 0 | 0 | 0.06751 | 0 |
| Pesticides 2,4-D | P020 | 0.1 µg/l | 608 | 0 | < 0.011 | < 0.011 | 0 |
| Pesticides Alachlor | P240 | 0.1 µg/l | 608 | 0 | < 0.025 | < 0.025 | 0 |
| Pesticides Aldrin | P002 | 0.03 µg/l | 608 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Atrazine | P004 | 0.1 µg/l | 603 | 0 | < 0.002 | 0.027 | 0 |
| Pesticides Benazolin | P138 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides Bendiocarb | P174 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides Bentazone | P006 | 0.1 µg/l | 608 | 0 | < 0.008 | < 0.016182 | 0 |
| Pesticides Bromoxynil | P008 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Carbetamide | P010 | 0.1 µg/l | 602 | 0 | < 0.005 | 0.015 | 0 |
| Pesticides Chlorfenvinphos | P013 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides Chlorthal-Dimethyl (dimethyl tetrachloro | P211 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Chlortoluron | P014 | 0.1 µg/l | 604 | 1 | < 0.003 | 0.026 | 1 |
| Pesticides Clopyralid | P018 | 0.1 µg/l | 608 | 0 | < 0.019 | < 0.019 | 0 |
| Pesticides Cyanazine | P092 | 0.1 µg/l | 603 | 0 | < 0.007 | < 0.00988 | 0 |
| Pesticides Diazinon | P024 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides Dicamba | P025 | 0.1 µg/l | 608 | 0 | < 0.013 | < 0.013 | 0 |
| Pesticides Dichlorprop | P026 | 0.1 µg/l | 608 | 0 | < 0.011 | < 0.011 | 0 |
| Pesticides Dieldrin | P028 | 0.03 µg/l | 608 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Diflufenican | P157 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Diuron | P032 | 0.1 µg/l | 603 | 0 | < 0.005 | 0.00698 | 0 |
| Pesticides Endosulfan A (alpha-Endosulfan) | P101 | 0.1 µg/l | 608 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Fluroxypyr | P040 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Flutriafol | P039 | 0.1 µg/l | 605 | 0 | < 0.004 | 0.01 | 0 |
| Pesticides Gamma-HCH (Lindane) | P041 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Glyphosate | P042 | 0.1 µg/l | 608 | 0 | < 0.014 | < 0.014 | 0 |
| Pesticides Heptachlor | P043 | 0.03 µg/l | 608 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Heptachlor epoxide | P044 | 0.03 µg/l | 608 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Hexachlorobutadiene | P108 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Ioxynil | P049 | 0.1 µg/l | 608 | 0 | < 0.008 | < 0.008 | 0 |
| Pesticides Iprodione | P046 | 0.1 µg/l | 608 | 0 | < 0.013 | < 0.025 | 0 |
| Pesticides Isoproturon | P048 | 0.1 µg/l | 603 | 0 | < 0.003 | 0.008776 | 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 | 603 | 0 | < 0.004 | < 0.005 | 0 |
| Pesticides Malathion | P052 | 0.1 µg/l | 608 | 0 | < 0.006 | < 0.006 | 0 |
| Pesticides MCPA | P054 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides MCPB | P055 | 0.1 µg/l | 608 | 0 | < 0.011 | < 0.011 | 0 |
| Pesticides MCPP(Mecoprop) | P053 | 0.1 µg/l | 608 | 2 | < 0.01 | < 0.010273 | 2 |
| Pesticides Methabenzthiazuron | P167 | 0.1 µg/l | 603 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides op-DDT | P116 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Parathion (Parathion ethyl) | P059 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides PCB - Total | P137 | 0.1 µg/l | 608 | 0 | < 0.035 | < 0.035 | 0 |
| Pesticides Pentachlorophenol | P060 | 0.1 µg/l | 608 | 0 | < 0.009 | < 0.009 | 0 |
| Pesticides Pirimicarb | P064 | 0.1 µg/l | 602 | 0 | < 0.002 | < 0.003 | 0 |
| Pesticides pp-DDD (TDE) | P123 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides pp-DDE | P124 | 0.1 µg/l | 607 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides pp-DDT | P125 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Pesticides Prometryn | P070 | 0.1 µg/l | 603 | 0 | < 0.002 | < 0.003 | 0 |
| Pesticides Propazine | P066 | 0.1 µg/l | 603 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides Propyzamide | P071 | 0.1 µg/l | 608 | 0 | < 0.006 | < 0.006 | 0 |
| Pesticides Simazine | P073 | 0.1 µg/l | 603 | 0 | < 0.009 | 0.01196 | 0 |
| Pesticides Terbutryn | P077 | 0.1 µg/l | 603 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Tri-allate | P079 | 0.1 µg/l | 608 | 0 | < 0.007 | < 0.007 | 0 |
| Pesticides Trichlopyr | P131 | 0.1 µg/l | 608 | 0 | < 0.015 | < 0.015 | 0 |
| Pesticides Trietazine | P132 | 0.1 µg/l | 602 | 0 | < 0.003 | 0.009 | 0 |
| Pesticides Trifluralin | P081 | 0.1 µg/l | 608 | 0 | < 0.01 | < 0.01 | 0 |
| Totals: | | | 33,968 | 3 | | | |

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 | 1,180 | 0 | 0 | 0 |
| Conductivity (Indicator) | D001 | 2500 µS/cm | 1,417 | 0 | 313.18 | 828.82 |
| Gross Alpha Activity | F004 | 0.1 Bq/l | 238 | 0 | < 0.0248 | 0.05683 |
| Gross Beta Activity | F005 | 1 Bq/l | 238 | 0 | < 0.0167 | 0.16132 |
| Tritium (Indicator) | F006 | 100 Bq/l | 165 | 0 | < 10 | < 10 |
| Totals: | | | 3,238 | 0 | | |

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 with failures |
|---|----------------|-----------------------------------|-----------------------|--------------|---------------------------------------|--|----------------------------|
| 1,2 Dichloroethane | F001 | 3 µg/l | 638 | 0 | < 0.12 | < 0.12 | 0 |
| Antimony | B008A | 5 µg Sb/l | 637 | 0 | < 0.009 | < 0.4 | 0 |
| Arsenic | B001A | 10 µg As/l | 636 | 0 | < 0.015 | 0.6315 | 0 |
| Benzene | F002 | 1 µg/l | 638 | 0 | < 0.07 | 0.0781 | 0 |
| Benzo (a) Pyrene | D007 | 0.01 µg/l | 635 | 0 | < 0.0005 | 0.0014528 | 0 |
| Boron | D005A | 1 mg B/l | 637 | 0 | < 0.0024 | 0.06424 | 0 |
| Bromate | F003 | 10 µg BrO3/l | 81 | 0 | < 0.2 | 2.9 | 0 |
| Cadmium | B002 | 5 µg Cd/l | 637 | 0 | < 0.02 | < 0.2 | 0 |
| Chromium | B004 | 50 µg Cr/l | 638 | 0 | < 0.15 | 1.522 | 0 |
| Copper | A024A | 2 mg Cu/l | 641 | 0 | < 0.00015 | 1.0774 | 0 |
| Cyanide | B003 | 50 µg CN/l | 637 | 0 | < 1 | 1.2 | 0 |
| <i>E. coli</i> | C002 | 0 number/100 ml | 6,325 | 0 | 0 | 0 | 0 |
| Enterococci | C003 | 0 number/100 ml | 635 | 0 | 0 | 0 | 0 |
| Fluoride | A027 | 1.5 mg F/l | 637 | 0 | 0.031868 | 0.17924 | 0 |
| Lead | B007A | 25 µg Pb/l | 643 | 1 | < 0.03 | 7.3164 | 1 |
| Mercury | B005 | 1 µg Hg/l | 637 | 0 | < 0.002 | 0.05548 | 0 |
| Nickel | B006A | 20 µg Ni/l | 636 | 2 | < 0.2 | 6.4769 | 2 |
| Nitrate | A012 | 50 mg NO3/l | 644 | 0 | 1.49092 | 46.515 | 0 |
| Nitrate/Nitrite Formula | A013C | 1 mg NO2/l | 636 | 0 | < 0.017 | 0.93 | 0 |
| Nitrite (Consumers tap) | A013A | 0.5 mg NO2/l | 569 | 0 | < 0.005576 | < 0.01968 | 0 |
| Polycyclic aromatic hydrocarbons | B011F | 0.1 µg/l | 636 | 0 | 0 | 0.0028917 | 0 |
| Selenium | B009 | 10 µg Se/l | 637 | 0 | < 0.06 | 1.2 | 0 |
| Tetrachloroethene/Trichloroethene - sum | D009B | 10 µg/l | 643 | 0 | 0 | 0.9208 | 0 |
| Total Trihalomethanes | D011 | 100 µg/l | 641 | 0 | 0 | 69 | 0 |
| Totals: | | | 20,374 | 3 | | | |

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 with failures |
|--------------------|----------------|-----------------------------------|-----------------------|--------------|---------------------------------------|--|----------------------------|
| Aluminium | A021 | 200 µg Al/l | 1,456 | 0 | < 6 | 45 | 0 |
| Colour | A001 | 20 mg/l Pt/Co scale | 1,554 | 0 | < 0.9 | 5.328 | 0 |
| Iron | A022 | 200 µg Fe/l | 1,579 | 4 | < 4 | 102 | 4 |
| Manganese | A023 | 50 µg Mn/l | 1,116 | 0 | < 2 | 7.266 | 0 |
| Organoleptic Odour | A003 | 0 Dilution number | 1,414 | 11 | 0 | 0 | 8 |
| Organoleptic Taste | A004 | 0 Dilution number | 1,411 | 12 | 0 | 0 | 10 |
| Sodium | A009 | 200 mg Na/l | 637 | 0 | 5.476 | 132.4 | 0 |
| Tetrachloromethane | D008 | 3 µg/l | 638 | 0 | < 0.07 | 0.11522 | 0 |
| Turbidity | A002 | 4 nephelometric turbidity units | 1,293 | 0 | 0.06 | 0.4403 | 0 |
| Totals: | | | 11,098 | 27 | | | |

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 ₄ /l | 1,451 | 0 | < 0.0387 | < 0.0645 |
| Chloride (Indicator) | D002A | 250 mg Cl/l | 641 | 0 | 9.61 | 79.546 |
| Coliform Bacteria (Indicator) | C001A | 0 number/100 ml | 6,325 | 6 | 0 | 0 |
| Colony Counts After 3 Days At 22°C (Indicator) | C007 | No abnormal change | 1,373 | -(n/a) | 0 | 22 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 1,373 | -(n/a) | 0 | 27 |
| Conductivity (Indicator) | D001 | 2500 µS/cm | 1,221 | 0 | 320.44 | 782.46 |
| Hydrogen ion (pH) | A006 | 6.5 - 9.5 pH Value | 1,220 | 0 | 7.04 | 7.86 |
| Residual Disinfectant - Free | C009 | No abnormal change | 6,320 | -(n/a) | 0.04 | 0.61 |
| Residual Disinfectant - Total | C010 | No abnormal change | 6,320 | -(n/a) | 0.1 | 0.67 |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a) | -(n/a) | (6,320) | -(n/a) | 0.01 | 0.43 |
| Sulphate (Indicator) | A007 | 250 mg SO ₄ /l | 637 | 0 | 5.041 | 73.758 |
| Total organic carbon (indicator) | A017 | No abnormal change | 637 | -(n/a) | < 0.2 | 3.1124 |
| Totals: | | | 27,518 | 6 | | |

*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'.