

Data Summary Tables for South Staffordshire Water (SST)

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

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

Number of treatment works = 23

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO ₂ /l	4215	0	<0.009	<0.009	0
TOTAL	-	4215	0	-	-	-

Table SST 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	4216	2	0	0	2
Cryptosporidium	Oocyst concentration / 10 l	365	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	4216	0	0	0	0
TOTAL	-	8797	2	-	-	-

Table SST 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	4216	0	0	16
Colony Counts After 48 Hours At 37°C	No abnormal change	4216	0	0	15
Residual Disinfectant - Total	No abnormal change	4216	0	0.09	1.03
Turbidity	1 NTU	4081	3	<0.11	0.51
TOTAL	-	16729	3	-	-

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

Number of service reservoirs = 37

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	1783	1	0	0	0*
<i>E. coli</i>	C002	0 number/100 ml	1783	0	0	0	0
TOTAL	-	-	3566	1	-	-	-

* RBBR1 Barr Beacon Reservoir 1 breach(es) regulation 14 for an unjustified sampling shortfall

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1783	0	>300
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1783	0	>300
Residual Disinfectant - Total	C010	No abnormal change	1784	0.05	0.5615
TOTAL	-	-	5350	-	-

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

Number of supply points = 24

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	235	0	<0.2	<0.2	0
Benzene	1 µg/l	235	0	<0.05	<0.05	0
Bromate	10 µg BrO ₃ /l	236	0	<0.6	5.452	0
Cyanide	50 µg CN/l	236	0	<2.1	10.026	0
Mercury	1 µg Hg/l	236	0	<0.046	0.127	0
Tetrachloroethene/Trichloroethene	10 µg/l	235	0	<0.2	2.864	0
Pesticides (2,4-D)	0.1 µg/l	233	0	<0.003	0.025	0
Pesticides (Aldrin)	0.03 µg/l	233	0	<0.009	<0.01	0
Pesticides (Atrazine)	0.1 µg/l	233	0	<0.001	0.051	0
Pesticides (Dieldrin)	0.03 µg/l	233	0	<0.004	<0.004	0
Pesticides (Heptachlor)	0.03 µg/l	233	0	<0.004	0.006	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	233	0	<0.007	<0.007	0
Pesticides (Isoproturon)	0.1 µg/l	233	0	<0.002	0.076	0
Pesticides (MCPA)	0.1 µg/l	233	0	0	0.02	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	233	0	<0.004	0.04	0
Pesticides (Simazine)	0.1 µg/l	233	0	<0.001	0.011	0
Pesticides - Total Substances	0.5 µg/l	233	0	<0.01	0.137	0
TOTAL	-	3976	0	-	-	-

Table SST 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	235	0	<0.1	0.2	0
TOTAL	-	235	0	-	-	-

Table SST 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
<i>Clostridium perfringens</i>	0 number/100 ml	1121	4	0	0
Radioactivity - Gross Alpha	0.1 Bq/l	235	14	<0.02	<0.193
Radioactivity - Gross Beta	1 Bq/l	236	0	0.054	<1
TOTAL	-	1592	18	-	-

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

Number of zones = 23

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Antimony	5 µg Sb/l	250	0	<0.17	1.617	0
Arsenic	10 µg As/l	250	0	<0.12	3.28	0
Benzo (a) Pyrene	0.01 µg/l	249	0	<0.001	0.001	0
Boron	1 mg B/l	250	0	0.02351	0.106	0
Bromate	10 µg BrO ₃ /l	203	0	<0.6	4.188	0
Cadmium	5 µg Cd/l	250	0	<0.012	0.24	0
Chromium	50 µg Cr/l	250	0	<0.12	0.88	0
Copper	2 mg Cu/l	250	0	<0.003	0.139	0
<i>E. coli</i>	0 number/100 ml	3324	1	0	0	1
Enterococci	0 number/100 ml	250	0	0	0	0
Fluoride	1.5 mg F/l	250	0	0.875	1.24	0
Lead	25 µg Pb/l	250	0	<0.14	18.014	0
Nickel	20 µg Ni/l	250	0	<0.5	3.954	0
Nitrate	50 mg NO ₃ /l	250	0	<0.6	43.545	0
Nitrite	0.5 mg NO ₂ /l	250	0	<0.009	<0.009	0
Nitrate/Nitrite Formula	≤ 1	250	0	0.01	1	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	249	0	<0.004	0.005	0
Selenium	10 µg Se/l	250	0	<0.3	1.646	0
Trihalomethanes (THMs)	100 µg/l	230	0	<4	83.901	0
TOTAL	-	7755	1	-	-	-

Table SST 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	1142	2	<8	126.57	2
Colour	20 mg/l Pt/Co scale	1142	0	<1.5	5.314	0
Hydrogen ion (pH)	6.5 - 10 pH value	1142	0	6.6	7.957	0
Iron	200 µg Fe/l	1142	1	<7	73.28	1
Manganese	50 µg Mn/l	1142	0	<0.4	11.027	0
Organoleptic Odour	Dilution No. 3 at 25°C	1143	0	0	0	0
Organoleptic Taste	Dilution No. 3 at 25°C	1141	0	0	0	0
Sodium	200 mg Na/l	250	0	9.778	73.743	0
Turbidity	4 NTU	1108	0	<0.11	0.747	0
TOTAL	-	9352	3	-	-	-

Table SST 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 ₄ /l	1142	0	<0.01	0.03
Chloride	250 mg Cl/l	250	0	25.204	105
Coliform Bacteria	0 number/100 ml	3324	8	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	1141	0	0	80
Colony Counts After 48 Hours At 37°C	No abnormal change	1141	0	0	86
Conductivity	2500 µS/cm	1136	0	261.74	795
Hydrogen ion (pH)	9.5 pH Value	1142	0	6.6	7.957
Residual Disinfectant - Total	No abnormal change	3325	0	0.04	0.44
Sulphate	250 mg SO ₄ /l	250	0	19.622	152.49
Total Organic Carbon (TOC)	No abnormal change	250	0	0.47	5.643
TOTAL	-	13101	8	-	-