

Data Summary Tables for South Staffordshire Water Plc (SST)

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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Data Summary 2006 for SOUTH STAFFORDSHIRE WATER PLC (SST)

Table SST 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	4072	0	<0.0093	<0.0093	0
TOTAL	-	-	4072	0	-	-	-

Table SST 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	4070	1	0	0	1
Cryptosporidium	C111	ooocysts >1 in10 litres	368	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	4070	0	0	0	0
TOTAL	-	-	8508	1	-	-	-

Table SST 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	4071	n/a	0	8
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	4071	n/a	0	10
Residual Disinfectant - Total	C010	No abnormal change	4073	n/a	0.09	0.96
Turbidity	A002A	1 NTU	4072	n/a	<0.11	0.5327
TOTAL	-	-	16287	n/a	-	-

Table SST 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	1796	2	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	1796	0	0	0	0
TOTAL	-	-	3592	2	-	-	-

Table SST 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	1802	n/a	0	>300
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1802	n/a	0	152
Residual Disinfectant - Total	C010	No abnormal change	1802	n/a	0.0403	0.5397
TOTAL	-	-	5406	0	-	-

Table SST 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	215	0	<0.2	<0.2	0
Benzene	F002	1 µg/l	215	0	<0.05	<0.05	0
Cyanide	B003	50 µg CN/l	215	0	<0.5	9.924	0
Mercury	B005	1 µg Hg/l	213	0	<0.03826	0.20914	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	215	0	<0.2	3.384	0
Pesticides (2,4-D)	P020	µg/l	215	0	<0.0031	0.009136	0
Pesticides (Aldrin)	P002	µg/l	215	0	<0.009	<0.009	0
Pesticides (Atrazine)	P004	µg/l	215	0	<0.0008	0.038272	0
Pesticides (Bromacil)	P086	µg/l	215	0	<0.0058	<0.0058	0
Pesticides (Chlortoluron)	P014	µg/l	215	0	<0.003	<0.003	0
Pesticides (Clopyralid)	P018	µg/l	215	0	<0.0097	0.029784	0
Pesticides (Dicamba)	P025	µg/l	215	0	<0.0098	<0.0098	0
Pesticides (Dichlorprop)	P026	µg/l	215	0	<0.003	<0.003	0
Pesticides (Dieldrin)	P028	µg/l	215	0	<0.0037	<0.0037	0
Pesticides (Diuron)	P032	µg/l	215	0	<0.0034	0.01172	0
Pesticides (Heptachlor)	P043	µg/l	215	0	<0.004	<0.004	0
Pesticides (Heptachlor epoxide)	P044	µg/l	215	0	<0.007	<0.007	0
Pesticides (Isoproturon)	P048	µg/l	215	0	<0.0016	0.009816	0
Pesticides (MCPA)	P054	µg/l	215	0	0	0.01654	0
Pesticides (MCPP(Mecoprop))	P053	µg/l	215	0	<0.0037	0.031536	0
Pesticides (Propazine)	P066	µg/l	215	0	<0.001	0.002288	0
Pesticides (Propyzamide)	P071	µg/l	215	0	<0.0013	<0.0013	0
Pesticides (Simazine)	P073	µg/l	215	0	<0.001	0.009368	0
Pesticides (Trichlopyr)	P131	µg/l	215	0	<0.0024	0.005668	0
Pesticides - Total Substances	B010	0.5 µg/l	215	0	<0.01	0.0684	0
TOTAL	-	-	5373	0	-	-	-

Table SST 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
Tetrachloromethane	D008	3 µg/l	215	0	<0.1	<0.1	0

TOTAL	-	-	215	0	-	-	-
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Table SST 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)
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1096	3	0	0
Radioactivity - Gross Alpha	F004	0.1 Bq/l	213	12*	<0.02	0.18706
Radioactivity - Gross Beta	F005	1 Bq/l	216	0	0.0417	<0.5
TOTAL	-	-	1525	15	-	-

* requires more specific analysis to determine the source and type of radioactivity (Total Indicative Dose).

Table SST 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
Antimony	B008A	5 µg Sb/l	225	0	<0.17	1.1732	0
Arsenic	B001A	10 µg As/l	225	0	<0.12	4.4328	0
Benzo (a) Pyrene	D007	0.01 µg/l	229	0	<0.0004	0.00182	0
Boron	D005A	1 mg B/l	225	0	<0.01378	0.10622	0
Bromate	F003	10 µg BrO ₃ /l	225	0	<0.052444	6.566	0
Cadmium	B002	5 µg Cd/l	225	0	<0.012	0.23	0
Chromium	B004	50 µg Cr/l	225	0	<0.12	1.0392	0
Copper	A024A	2 mg Cu/l	225	0	<0.002	0.08584	0
<i>E. coli</i>	C002	0 number/100 ml	3335	3	0	0	2
Enterococci	C003	0 number/100 ml	225	0	0	0	0
Fluoride	A027	1.5 mg F/l	225	0	0.5782	1.1174	0
Lead	B007A	25 µg Pb/l	225	1	<0.14	19.488	1
Nickel	B006A	20 µg Ni/l	225	0	<0.5	2.8016	0
Nitrate	A012	50 mg NO ₃ /l	225	0	<0.6	45.474	0
Nitrite	A013A	0.5 mg NO ₂ /l	225	0	<0.0093	<0.011668	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	225	0	0.01	0.9174	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	230	0	<0.0034	0.01	0
Selenium	B009	10 µg Se/l	225	0	<0.3	1.1528	0
Trihalomethanes (THMs)	D011	100 µg/l	229	0	<4	92.13	0
TOTAL	-	-	7398	4	-	-	-

Table SST 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	1179	3	<7	128.2	3
Colour	A001	20 mg/l Pt/Co scale	1139	0	<1.5	5.26	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	1139	0	6.6	8	0
Iron	A022	200 µg Fe/l	1179	3	<10	91	3
Manganese	A023	50 µg Mn/l	1139	0	<1.5	11.44	0
Organoleptic Odour	A003	Dilution no. 3 at 25°C	1140	0	0	0	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	1140	0	0	0	0
Sodium	A009	200 mg Na/l	225	0	10.678	77.324	0
Turbidity	A002	4 NTUs	1139	0	<0.11	0.6	0

TOTAL	-	-	9419	6	-	-	-
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Table SST 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)
Ammonium	A014	0.5 mg NH ₄ /l	1138	0	<0.01	0.04
Chloride	D002A	250 mg Cl/l	225	0	28.96	106.48
Coliform Bacteria	C001A	0 number/100 ml	3335	8	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1139	n/a	0	156
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1139	n/a	0	60
Conductivity	D001	2500 µS/cm	1139	0	305	811.6
Hydrogen ion (pH)	A006A	9.5 pH Value	1139	0	6.6	8
Residual Disinfectant - Total	C010	No abnormal change	3339	n/a	0.034	0.43
Sulphate	A007	250 mg SO ₄ /l	225	0	21.16	157.48
Total Organic Carbon (TOC)	A017	No abnormal change	225	n/a	0.66	6.432
TOTAL	-	-	13043	8	-	-