

Data Summary Tables for South West Water (SWT)

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

Number of treatment works = 33

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	376	1	<0.01	0.03	1
TOTAL	-	376	1	-	-	-

Table SWT 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	7583	5	0	0	5
Cryptosporidium	Oocyst concentration / 10 l	4455	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	7587	2	0	0	2
TOTAL	-	19625	7	-	-	-

Table SWT 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	7572	0	0	62
Colony Counts After 48 Hours At 37°C	No abnormal change	7572	0	0	215
Residual Disinfectant - Free	No abnormal change	7596	0	0.53	1.64
Residual Disinfectant - Total	No abnormal change	7596	0	0.55	1.64
Turbidity	1 NTU	7578	8	<0.1	0.5
TOTAL	-	37914	8	-	-

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

Number of service reservoirs = 320

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	16399	18	0	0	0*
<i>E. coli</i>	0 number/100 ml	16402	0	0	0	0
TOTAL	-	32801	18	-	-	-

* It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R5438OUT1 KIT HILL (NEW) SR
 It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R5440OUT KIT HILL (SMALL) SR
 It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R7027OUT TRISTFORD SR

Table SWT 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	16355	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	16349	0	>300
Residual Disinfectant - Free	No abnormal change	16404	0.15	1.26
Residual Disinfectant - Total	No abnormal change	16404	0.2	1.31
TOTAL	-	65512	-	-

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

Number of supply points = 33

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Boron	1 mg B/l	371	0	<0.01	0.029	0
Cyanide	50 µg CN/l	371	0	<1.5	3.368	0
Fluoride	1.5 mg F/l	371	0	<0.01	0.123	0
Mercury	1 µg Hg/l	371	0	<0.04	0.163	0
Pesticides (2,4,-Db)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (2,4-D)	0.1 µg/l	376	0	<0.004	0.006	0
Pesticides (Atrazine)	0.1 µg/l	375	0	<0.004	0.045	0
Pesticides (Azoxystrobin)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Benazolin)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Bentazone)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Bromoxynil)	0.1 µg/l	376	0	<0.003	0.004	0
Pesticides (Carbendazim)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Chlorfenvinphos)	0.1 µg/l	376	0	<0.009	<0.009	0
Pesticides (Chlorothalonil)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Chlorpropham)	0.1 µg/l	375	0	<0.002	<0.002	0
Pesticides (Chlorpyrifos)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Chlortoluron)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Clopyralid)	0.1 µg/l	376	0	<0.006	<0.006	0
Pesticides (Cypermethrin)	0.1 µg/l	376	0	<0.014	<0.014	0
Pesticides (Cyprodinil)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Diazinon)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Dicamba)	0.1 µg/l	376	0	<0.002	0.0022	0
Pesticides (Dichlobenil)	0.1 µg/l	376	0	<0.002	<0.002	0
Pesticides (Dichlorprop)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Dieldrin)	0.03 µg/l	376	0	<0.007	<0.007	0
Pesticides (Diflufenican)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Diuron)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Epoxyconazole)	0.1 µg/l	376	0	<0.009	<0.009	0
Pesticides (Fenpropimorph)	0.1 µg/l	376	0	<0.006	<0.006	0
Pesticides (Flusilazole)	0.1 µg/l	375	0	<0.009	<0.009	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Heptachlor)	0.03 µg/l	376	0	<0.008	<0.008	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	376	0	<0.003	<0.003	0
Pesticides (Ioxynil)	0.1 µg/l	376	0	<0.007	<0.007	0
Pesticides (Isoproturon)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Kresoxym-Methyl)	0.1 µg/l	376	0	<0.003	<0.003	0

Pesticides (Linuron)	0.1 µg/l	375	0	<0.005	<0.005	0
Pesticides (MCPA)	0.1 µg/l	376	0	<0.004	0.017	0
Pesticides (MCPB)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	376	0	<0.002	0.006	0
Pesticides (Pendimethalin)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Pentachlorophenol)	0.1 µg/l	376	0	<0.003	0.004	0
Pesticides (Permethrin)	0.1 µg/l	376	0	<0.008	<0.008	0
Pesticides (Picloram)	0.1 µg/l	376	0	<0.007	<0.007	0
Pesticides (Propetamphos)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Propyzamide)	0.1 µg/l	375	0	<0.003	0.022	0
Pesticides (Simazine)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Sulcofuron)	0.1 µg/l	375	0	<0.014	<0.014	0
Pesticides (Tebuconazole)	0.1 µg/l	376	0	<0.005	<0.005	0
Pesticides (Tri-allate)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Trichlopyr)	0.1 µg/l	376	0	<0.002	0.005	0
Pesticides (Trifloxystrobin)	0.1 µg/l	375	0	<0.004	<0.004	0
Pesticides (Trifluralin)	0.1 µg/l	376	0	<0.005	<0.005	0
Pesticides - Total Substances	0.5 µg/l	393	0	0	0.047	0
TOTAL	-	20288	0	-	-	-

Table SWT 7: 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	376	0	9	54.23
<i>Clostridium perfringens</i>	0 number/100 ml	2266	0	0	0
Conductivity	2500 µS/cm	2264	0	66.03	477.7
Sulphate	250 mg SO ₄ /l	375	0	3.2	46.076
Total Organic Carbon (TOC)	No abnormal change	365	0	<0.4	6.134
TOTAL	-	5646	0	-	-

Table SWT 8: 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
1,2 Dichloroethane	3 µg/l	275	0	<0.2	<0.2	0
Antimony	5 µg Sb/l	275	0	<0.01	0.665	0
Arsenic	10 µg As/l	275	0	<0.08	1.148	0
Benzene	1 µg/l	275	0	<0.1	<0.1	0
Benzo (a) Pyrene	0.01 µg/l	274	0	<0.001	0.003	0
Bromate	10 µg BrO ₃ /l	275	1	<1	7.712	1
Cadmium	5 µg Cd/l	274	0	<0.02	0.17	0
Chromium	50 µg Cr/l	274	0	0.253	1.198	0
Copper	2 mg Cu/l	276	0	<0.001	0.464	0
<i>E. coli</i>	0 number/100 ml	4086	1	0	0	1
Enterococci	0 number/100 ml	274	0	0	0	0
Lead	25 µg Pb/l	276	0	<0.2	10.74	0
Nickel	20 µg Ni/l	276	1	<0.5	5.507	1
Nitrate	50 mg NO ₃ /l	274	0	<0.3	39.03	0
Nitrite	0.5 mg NO ₂ /l	274	0	<0.01	0.01	0
Nitrate/Nitrite Formula	≤ 1	274	0	0	0.78	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	274	0	0	0.007	0
Selenium	10 µg Se/l	275	0	<0.22	1.2	0
Tetrachloroethene/Trichloroethene	10 µg/l	275	0	0	0.424	0
Trihalomethanes (THMs)	100 µg/l	275	1	2.68	92.16	1
TOTAL	-	9306	4	-	-	-

Table SWT 9: 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	1252	0	<3	75.823	0
Colour	20 mg/l Pt/Co scale	1252	0	<0.2	2.694	0
Hydrogen ion (pH)	6.5 - 10 pH value	1252	0	7.2	8.9	0
Iron	200 µg Fe/l	1252	4	<10	154.41	3
Manganese	50 µg Mn/l	1252	1	<0.2	22.494	1
Organoleptic Odour	Dilution No. 3 at 25°C	1253	0	0	0	0
Organoleptic Taste	Dilution No. 3 at 25°C	1247	2	0	0	1

Sodium	200 mg Na/l	274	0	4.375	29.75	0
Tetrachloromethane	3 µg/l	275	0	<0.1	<0.1	0
Turbidity	4 NTU	1252	0	<0.1	0.7	0
TOTAL	-	10561	7	-	-	-

Table SWT 10: 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	1252	0	<0.01	0.07
Coliform Bacteria	0 number/100 ml	4085	11	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	4080	0	0	129
Colony Counts After 48 Hours At 37°C	No abnormal change	4075	0	0	165
Hydrogen ion (pH)	9.5 pH Value	1252	0	7.2	8.9
Residual Disinfectant - Free	No abnormal change	4087	0	0.05	1.13
Residual Disinfectant - Total	No abnormal change	4087	0	0.119	1.2
TOTAL	-	22918	11	-	-