

Data Summary Tables for South East Water (SEW)

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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Drinking Water Inspectorate
55, Whitehall
London
SW1A 2EY

Enquiries : 020 7082 8024

Data Summary 2006 for SOUTH EAST WATER PLC

Table SEW 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	438	0	<0.003	0.00883	0
TOTAL	-	-	438	0	-	-	-

Table SEW 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	3666	1	0	0	1
Cryptosporidium	C111	oozysts >1 in10 litres	3561	0	<0.01	<0.01	0
<i>E. coli</i>	C002	0 number/100 ml	3666	0	0	0	0
TOTAL	-	-	10893	1	-	-	-

Table SEW 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	3661	n/a	0	65
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	3661	n/a	0	25
Residual Disinfectant - Free	C009	No abnormal change	3675	n/a	0.08	0.76
Residual Disinfectant - Total	C010	No abnormal change	3675	n/a	0.11	0.88
Turbidity	A002A	1 NTU	8012	32	<0.24	0.7687
TOTAL	-	-	22684	32	-	-

Table SEW 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	8556	13	0	0	1
<i>E. coli</i>	C002	0 number/100 ml	8556	2	0	0	1
TOTAL	-	-	17112	15	-	-	-

Table SEW 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	8556	n/a	0	350
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	8557	n/a	0	183
Residual Disinfectant - Free	C009	No abnormal change	8557	n/a	<0.02	0.48
Residual Disinfectant - Total	C010	No abnormal change	8557	n/a	0.05	0.6
TOTAL	-	-	34227	0	-	-

Table SEW 6: 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
1,2 Dichloroethane	F001	3 µg/l	532	0	<0.1	0.18	0
Antimony	B008A	5 µg Sb/l	529	0	<0.1	0.43	0
Arsenic	B001A	10 µg As/l	529	0	<0.3	7.1	0
Benzene	F002	1 µg/l	532	0	<0.03	0.03	0
Benzo (a) Pyrene	D007	0.01 µg/l	528	0	<0.001	0.00171	0
Boron	D005A	1 mg B/l	529	0	<0.005	0.2427	0
Bromate	F003	10 µg BrO ₃ /l	581	2	<0.8	6.652	2
Cadmium	B002	5 µg Cd/l	528	0	<0.1	<0.1	0
Chromium	B004	50 µg Cr/l	528	0	<1	3.52272	0
Copper	A024A	2 mg Cu/l	529	0	<0.005	0.9382	0
Cyanide	B003	50 µg CN/l	528	0	<0.4	<4	0
<i>E. coli</i>	C002	0 number/100 ml	3973	4	0	0	4
Enterococci	C003	0 number/100 ml	529	2	0	0	2
Fluoride	A027	1.5 mg F/l	529	0	0.0373	0.4514	0
Lead	B007A	25 µg Pb/l	529	2	<0.1	15.61	2
Mercury	B005	1 µg Hg/l	529	0	<0.04	<0.04	0
Nickel	B006A	20 µg Ni/l	529	4	<1	14.688	4
Nitrate	A012	50 mg NO ₃ /l	544	0	<1	35.71	0
Nitrite	A013A	0.5 mg NO ₂ /l	544	0	<0.003	0.0398	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	544	0	-0.00455	0.7142	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	529	0	0	0.007	0
Selenium	B009	10 µg Se/l	529	0	<0.3	1.8941	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	531	0	0	3.9696	0
Trihalomethanes (THMs)	D011	100 µg/l	530	0	0	81.6	0
Pesticides (2,4-D)	P020	µg/l	533	0	<0.004	0.00666	0
Pesticides (Aldrin)	P002	µg/l	529	0	<0.007	<0.007	0
Pesticides (Atrazine)	P004	µg/l	529	0	<0.01	0.0264	0
Pesticides (Bentazone)	P006	µg/l	533	0	<0.002	<0.002	0
Pesticides (Carbendazim)	P150	µg/l	529	0	<0.01	<0.01	0
Pesticides (Carbetamide)	P010	µg/l	529	0	<0.01	0.0107	0
Pesticides (Chlormequat)	P163	µg/l	529	0	<0.004	<0.01	0
Pesticides (Chlortoluron)	P014	µg/l	529	0	<0.01	0.0184	0
Pesticides (Cyproconazole)	P207	µg/l	529	0	<0.004	<0.004	0
Pesticides (Dicamba)	P025	µg/l	533	0	<0.003	<0.003	0
Pesticides (Dichlobenil)	P098	µg/l	529	0	<0.006	0.0127	0
Pesticides (Dichlorprop)	P026	µg/l	533	0	<0.002	<0.002	0

Pesticides (Dieldrin)	P028	µg/l	529	0	<0.004	<0.004	0
Pesticides (Diuron)	P032	µg/l	529	0	<0.01	0.0117	0
Pesticides (Epoxyconazole)	P217	µg/l	529	0	<0.004	<0.004	0
Pesticides (EPTC)	P035	µg/l	529	0	<0.004	<0.004	0
Pesticides (Flusilazole)	P159	µg/l	529	0	<0.004	<0.004	0
Pesticides (Flutriafol)	P039	µg/l	529	0	<0.004	<0.004	0
Pesticides (Gamma-HCH (Lindane))	P041	µg/l	529	0	<0.003	<0.003	0
Pesticides (Glyphosate)	P042	µg/l	529	0	<0.016	<0.016	0
Pesticides (Heptachlor)	P043	µg/l	529	0	<0.007	<0.007	0
Pesticides (Heptachlor epoxide)	P044	µg/l	529	0	<0.008	<0.008	0
Pesticides (Isoproturon)	P048	µg/l	529	0	<0.01	0.0187	0
Pesticides (Linuron)	P051	µg/l	529	0	<0.01	<0.01	0
Pesticides (MCPA)	P054	µg/l	533	0	<0.002	0.004	0
Pesticides (MCPP(Mecoprop))	P053	µg/l	533	0	<0.002	0.019	0
Pesticides (Oxadixyl)	P154	µg/l	529	0	<0.004	0.0208	0
Pesticides (Pendimethalin)	P118	µg/l	529	0	<0.004	<0.004	0
Pesticides (Propyzamide)	P071	µg/l	529	0	<0.006	<0.006	0
Pesticides (Simazine)	P073	µg/l	529	0	<0.01	0.0338	0
Pesticides (Tecnazene)	P130	µg/l	529	0	<0.004	<0.004	0
Pesticides (Terbutryn)	P077	µg/l	529	0	<0.01	<0.01	0
Pesticides (Tri-allate)	P079	µg/l	529	0	<0.004	<0.004	0
Pesticides (Trichlopyr)	P131	µg/l	533	0	<0.006	0.0203	0
Pesticides - Total Substances	B010	0.5 µg/l	537	0	0	0.06686	0
TOTAL	-	-	34793	14	-	-	-

Table SEW 7: 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	787	0	<2	58.0384	0
Colour	A001	20 mg/l Pt/Co scale	941	0	<1	4.1934	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	941	0	7	7.9	0
Iron	A022	200 µg Fe/l	1193	6	<12	142.494	6
Manganese	A023	50 µg Mn/l	848	1	<0.3	13.353	1
Organoleptic Odour	A003	Dilution no. 3 at 25°C	857	0	0	1	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	857	0	0	<1	0
Sodium	A009	200 mg Na/l	529	0	5.8	85.14	0
Tetrachloromethane	D008	3 µg/l	531	0	<0.04	0.0968	0
Turbidity	A002	4 NTUs	945	1	<0.24	0.8554	1
TOTAL	-	-	8429	8	-	-	-

Table SEW 8: 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	825	0	<0.01	0.0791
Chloride	D002A	250 mg Cl/l	544	0	9.2405	73.4085
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	807	0	0	0
Coliform Bacteria	C001A	0 number/100 ml	3973	42	0	1
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1562	n/a	0	>300
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1562	n/a	0	>300
Conductivity	D001	2500 µS/cm	920	0	238.21	713
Hydrogen ion (pH)	A006A	9.5 pH Value	941	0	7	7.9
Radioactivity - Gross Alpha	F004	0.1 Bq/l	188	0	<0.027	0.03398
Radioactivity - Gross Beta	F005	1 Bq/l	188	0	<0.042	0.18988
Radioactivity - Tritium	F006	100 Bq/l	165	0	<4	<4
Residual Disinfectant - Free	C009	No abnormal change	3974	n/a	<0.02	0.45
Residual Disinfectant - Total	C010	No abnormal change	3973	n/a	0.02	0.55
Sulphate	A007	250 mg SO ₄ /l	544	0	<1.6	81.92
Total Organic Carbon (TOC)	A017	No abnormal change	529	n/a	<0.3	4.58
TOTAL	-	-	20695	42	-	-