

Data Summary Tables for South East Water (SEW)

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

Number of treatment works = 64

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	434	0	<0.003	0.014	0
TOTAL	-	434	0	-	-	-

Table SEW 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	4431	1	0	0	1
Cryptosporidium	Oocyst concentration / 10 l	4001	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	4431	0	0	0	0
TOTAL	-	12863	1	-	-	-

Table SEW 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	4429	0	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	4377	0	0	194
Residual Disinfectant - Free	No abnormal change	4534	0	0.09	0.81
Residual Disinfectant - Total	No abnormal change	4534	0	0.12	0.91
Turbidity	1 NTU	8896	20	<0.24	0.62
TOTAL	-	26770	20	-	-

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

Number of service reservoirs = 173

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	8609	10	0	0	0*
<i>E. coli</i>	0 number/100 ml	8609	0	0	0	0
TOTAL	-	17218	10	-	-	-

* R016 FOLKINGTON reservoir outlet 2, R059 BEACON reservoir outlet 3, R078 COTTAGE HILL reservoir outlet3, R097 RIVERHILL reservoir outlet 1, R228 CROWTHORNE NO3 RESERVOIR, R241 HINDHEAD NO1 RESERVOIR, R242 HINDHEAD NO2 RESERVOIR breach(es) regulation 14 for an unjustified sampling shortfall

Table SEW 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	8609	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	8606	0	>300
Residual Disinfectant - Free	No abnormal change	8612	<0.02	0.4987
Residual Disinfectant - Total	No abnormal change	8612	0.05	0.61
TOTAL	-	34439	-	-

Table SEW 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	164	0	<0.1	<0.1	0
Benzene	1 µg/l	156	0	<0.03	<0.03	0
Boron	1 mg B/l	167	0	<0.005	0.269	0
Bromate	10 µg BrO ₃ /l	160	0	<0.8	1.678	0
Cyanide	50 µg CN/l	151	0	<4	<4	0
Fluoride	1.5 mg F/l	167	0	<0.04	0.488	0
Mercury	1 µg Hg/l	151	0	<0.04	0.284	0
Selenium	10 µg Se/l	167	0	<0.3	2.583	0
Tetrachloroethene/Trichloroethene	10 µg/l	159	0	0	0.992	0
Pesticides (2,4-D)	0.1 µg/l	167	0	<0.004	0.0154	0
Pesticides (Aldrin)	0.03 µg/l	167	0	<0.002	<0.013	0
Pesticides (Atrazine)	0.1 µg/l	167	0	<0.003	0.021	0
Pesticides (Bentazone)	0.1 µg/l	159	0	<0.002	0.015	0
Pesticides (Bromoxynil)	0.1 µg/l	159	0	<0.002	0.003	0
Pesticides (Carbendazim)	0.1 µg/l	167	0	<0.01	<0.01	0
Pesticides (Carbetamide)	0.1 µg/l	167	0	<0.002	<0.01	0
Pesticides (Chlormequat)	0.1 µg/l	159	0	<0.01	<0.01	0
Pesticides (Chlorpyrifos)	0.1 µg/l	159	0	<0.003	<0.004	0
Pesticides (Chlortoluron)	0.1 µg/l	167	1	<0.002	0.047	1
Pesticides (Cyproconazole)	0.1 µg/l	168	0	<0.004	<0.005	0
Pesticides (Dicamba)	0.1 µg/l	167	0	<0.003	<0.003	0
Pesticides (Dichlobenil)	0.1 µg/l	167	0	<0.003	<0.006	0
Pesticides (Dichlorprop)	0.1 µg/l	167	0	<0.002	0.004	0
Pesticides (Dieldrin)	0.03 µg/l	167	0	<0.001	<0.004	0
Pesticides (Diuron)	0.1 µg/l	167	0	<0.005	<0.011	0
Pesticides (Epoxyconazole)	0.1 µg/l	168	0	<0.004	<0.005	0
Pesticides (EPTC)	0.1 µg/l	168	0	<0.004	<0.004	0
Pesticides (Fluroxypyr)	0.1 µg/l	159	0	<0.004	<0.004	0
Pesticides (Flusilazole)	0.1 µg/l	169	0	<0.004	<0.005	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	167	0	<0.003	<0.003	0
Pesticides (Glyphosate)	0.1 µg/l	160	0	<0.008	<0.016	0
Pesticides (Heptachlor)	0.03 µg/l	165	0	<0.004	<0.009	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	165	0	<0.004	<0.005	0
Pesticides (Isoproturon)	0.1 µg/l	159	0	<0.004	<0.01	0
Pesticides (Linuron)	0.1 µg/l	167	0	<0.002	<0.01	0
Pesticides (MCPA)	0.1 µg/l	167	0	<0.002	0.017	0

Pesticides (MCP (Mecoprop))	0.1 µg/l	167	0	<0.002	0.025	0
Pesticides (Oxadixyl)	0.1 µg/l	168	0	<0.004	0.035	0
Pesticides (Pendimethalin)	0.1 µg/l	168	0	<0.003	<0.004	0
Pesticides (Simazine)	0.1 µg/l	167	0	<0.003	0.018	0
Pesticides (Terbutryn)	0.1 µg/l	167	0	<0.003	<0.01	0
Pesticides (Trichlopyr)	0.1 µg/l	167	0	<0.006	<0.006	0
Pesticides - Total Substances	0.5 µg/l	170	0	0	0.094	0
TOTAL	-	7071	1	-	-	-

Table SEW 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	167	0	<0.04	0.056	0
TOTAL	-	167	0	-	-	-

Table SEW 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
Chloride	250 mg Cl/l	151	0	9.048	82.71
<i>Clostridium perfringens</i>	0 number/100 ml	440	0	0	0
Conductivity	2500 µS/cm	956	0	271	700.43
Radioactivity - Gross Alpha	0.1 Bq/l	167	0	0.018	0.039
Radioactivity - Gross Beta	1 Bq/l	169	0	0.026	0.239
Radioactivity - Tritium	100 Bq/l	165	0	<4	<5
Sulphate	250 mg SO ₄ /l	159	0	<1.6	73.14
Total Organic Carbon (TOC)	No abnormal change	159	0	<0.3	4.3
TOTAL	-	2366	0	-	-

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

Number of zones = 75

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	485	0	<0.1	0.279	0
Antimony	5 µg Sb/l	529	0	<0.1	0.42	0
Arsenic	10 µg As/l	530	0	<0.3	7.169	0
Benzene	1 µg/l	485	0	<0.03	0.03	0
Benzo (a) Pyrene	0.01 µg/l	530	1	<0.001	0.001	1
Boron	1 mg B/l	376	0	0.011	0.294	0
Bromate	10 µg BrO ₃ /l	520	0	<0.8	3.879	0
Cadmium	5 µg Cd/l	527	0	<0.1	0.1	0
Chromium	50 µg Cr/l	527	0	<1	7.164	0
Copper	2 mg Cu/l	528	0	<0.007	0.476	0
Cyanide	50 µg CN/l	376	0	<4	<4	0
<i>E. coli</i>	0 number/100 ml	3845	2	0	0	2
Enterococci	0 number/100 ml	528	0	0	0	0
Fluoride	1.5 mg F/l	376	0	<0.04	0.52	0
Lead	25 µg Pb/l	528	0	<0.1	5.839	0
Mercury	1 µg Hg/l	376	0	<0.04	0.309	0
Nickel	20 µg Ni/l	528	4	<1	16.303	4
Nitrate	50 mg NO ₃ /l	528	0	<1	40.913	0
Nitrite	0.5 mg NO ₂ /l	528	0	<0.003	0.029	0
Nitrate/Nitrite Formula	≤ 1	528	0	0	0.818	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	530	1	0	0.004	1
Selenium	10 µg Se/l	377	0	<0.3	2.543	0
Tetrachloroethene/Trichloroethene	10 µg/l	528	0	0	2.311	0
Trihalomethanes (THMs)	100 µg/l	528	0	0	74.371	0
Pesticides (2,4-D)	0.1 µg/l	376	0	<0.004	0.011	0
Pesticides (Aldrin)	0.03 µg/l	376	0	<0.002	<0.007	0
Pesticides (Atrazine)	0.1 µg/l	376	0	<0.003	0.033	0
Pesticides (Bentazone)	0.1 µg/l	376	0	<0.002	<0.002	0
Pesticides (Bromoxynil)	0.1 µg/l	376	0	<0.002	<0.002	0
Pesticides (Carbendazim)	0.1 µg/l	373	0	<0.01	<0.01	0
Pesticides (Carbetamide)	0.1 µg/l	376	0	<0.002	0.021	0
Pesticides (Chlormequat)	0.1 µg/l	376	0	<0.01	<0.01	0
Pesticides (Chlorpyrifos)	0.1 µg/l	376	0	<0.003	<0.004	0
Pesticides (Chlortoluron)	0.1 µg/l	376	0	<0.002	0.0152	0
Pesticides (Cyproconazole)	0.1 µg/l	411	0	<0.004	<0.005	0

Pesticides (Dicamba)	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Dichlobenil)	0.1 µg/l	376	0	<0.003	<0.006	0
Pesticides (Dichlorprop)	0.1 µg/l	376	0	<0.002	<0.002	0
Pesticides (Dieldrin)	0.03 µg/l	376	0	<0.001	<0.004	0
Pesticides (Diuron)	0.1 µg/l	376	0	<0.005	0.019	0
Pesticides (Epoxyconazole)	0.1 µg/l	411	0	<0.004	<0.005	0
Pesticides (EPTC)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Fluroxypyr)	0.1 µg/l	376	0	<0.004	<0.004	0
Pesticides (Flusilazole)	0.1 µg/l	411	0	<0.004	<0.005	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	376	0	<0.003	<0.003	0
Pesticides (Glyphosate)	0.1 µg/l	376	0	<0.014	<0.016	0
Pesticides (Heptachlor)	0.03 µg/l	376	0	<0.004	<0.007	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	377	0	<0.004	<0.005	0
Pesticides (Isoproturon)	0.1 µg/l	373	0	<0.004	0.018	0
Pesticides (Linuron)	0.1 µg/l	376	0	<0.002	<0.01	0
Pesticides (MCPA)	0.1 µg/l	376	0	<0.002	0.009	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	376	0	<0.002	0.032	0
Pesticides (Oxadixyl)	0.1 µg/l	376	0	<0.004	<0.005	0
Pesticides (Pendimethalin)	0.1 µg/l	411	0	<0.003	<0.004	0
Pesticides (Simazine)	0.1 µg/l	376	0	<0.003	0.03	0
Pesticides (Terbutryn)	0.1 µg/l	376	0	<0.003	<0.01	0
Pesticides (Trichlopyr)	0.1 µg/l	376	0	<0.006	<0.006	0
Pesticides - Total Substances	0.5 µg/l	453	0	0	0.079	0
TOTAL	-	28137	8	-	-	-

Table SEW 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	1263	0	<2	71.795	0
Colour	20 mg/l Pt/Co scale	845	0	<1	2.253	0
Hydrogen ion (pH)	6.5 - 10 pH value	1080	0	7.1	8	0
Iron	200 µg Fe/l	1279	8	<12	191.94	5
Manganese	50 µg Mn/l	1263	1	<0.3	18.908	1
Organoleptic Odour	Dilution No. 3 at 25°C	982	0	0	1	0
Organoleptic Taste	Dilution No. 3 at 25°C	976	0	0	0	0
Sodium	200 mg Na/l	528	0	5.329	72.795	0
Tetrachloromethane	3 µg/l	528	0	<0.04	0.157	0
Turbidity	4 NTU	995	0	<0.24	0.82	0
TOTAL	-	9739	9	-	-	-

Table SEW 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	831	0	<0.01	0.076
Chloride	250 mg Cl/l	376	0	8.2044	72.389
<i>Clostridium perfringens</i>	0 number/100 ml	981	0	0	0
Coliform Bacteria	0 number/100 ml	3845	54	0	1
Colony Counts After 3 Days At 22°C	No abnormal change	1561	0	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	1562	0	0	>300
Conductivity	2500 µS/cm	588	0	196.89	728.11
Hydrogen ion (pH)	9.5 pH Value	1080	0	7.1	8
Radioactivity - Gross Alpha	0.1 Bq/l	374	0	0.019	0.065
Radioactivity - Gross Beta	1 Bq/l	374	0	0.033	0.243
Radioactivity - Tritium	100 Bq/l	378	0	<4	<5
Residual Disinfectant - Free	No abnormal change	3845	0	<0.02	0.47
Residual Disinfectant - Total	No abnormal change	3844	0	<0.02	0.6
Sulphate	250 mg SO ₄ /l	376	0	<1.6	82.83
Total Organic Carbon (TOC)	No abnormal change	376	0	<0.3	4.5
TOTAL	-	20391	54	-	-