

## **Data Summary Tables for Sutton and East Surrey Plc (SES)**

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 SUTTON and EAST SURREY WATER PLC

Table SES 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 <sub>2</sub> /l	2166	0	<0.01	0.01733	0
<b>TOTAL</b>	-	-	<b>2166</b>	<b>0</b>	-	-	-

Table SES 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	2162	0	0	0	0
Cryptosporidium	C111	oocysts >1 in10 litres	365	0	<0.01	<0.01	0
<i>E. coli</i>	C002	0 number/100 ml	2162	0	0	0	0
<b>TOTAL</b>	-	-	<b>4689</b>	<b>0</b>	-	-	-

Table SES 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	2179	n/a	0	2
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	2179	n/a	0	3
Residual Disinfectant - Total	C010	No abnormal change	2179	n/a	0.19	1.09
Turbidity	A002A	1 NTU	2179	0	<0.07	0.232
<b>TOTAL</b>	-	-	<b>8716</b>	<b>0</b>	-	-

**Table SES 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	1664	2	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	1664	0	0	0	0
<b>TOTAL</b>	-	-	<b>3328</b>	<b>2</b>	-	-	-

**Table SES 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	1664	n/a	0	>2000
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1664	n/a	0	10
Residual Disinfectant - Total	C010	No abnormal change	1664	n/a	<0.04	0.7935
<b>TOTAL</b>	-	-	<b>4992</b>	<b>0</b>	-	-

**Table SES 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
Boron	D005A	1 mg B/l	66	0	<0.005	0.087	0
Bromate	F003	10 µg BrO <sub>3</sub> /l	66	1	<0.8	31	1
Cyanide	B003	50 µg CN/l	66	0	<0.4	2.4	0
Fluoride	A027	1.5 mg F/l	66	0	<0.06	0.25	0
Mercury	B005	1 µg Hg/l	66	0	<0.12	0.4	0
Pesticides (2,3,6-Tba)	P074	µg/l	4	0	<0.002	<0.002	0
Pesticides (2,4,5-T)	P076	µg/l	4	0	<0.002	<0.002	0
Pesticides (2,4,-Db)	P082	µg/l	4	0	<0.002	<0.002	0
Pesticides (2,4-D)	P020	µg/l	66	0	<0.004	0.021	0
Pesticides (Aldrin)	P002	µg/l	62	0	<0.001	0.004	0
Pesticides (Ametryn)	P222	µg/l	4	0	<0.02	<0.02	0
Pesticides (Atrazine)	P004	µg/l	66	0	<0.006	0.045	0
Pesticides (Bentazone)	P006	µg/l	4	0	<0.002	<0.002	0
Pesticides (Bromoxynil)	P008	µg/l	4	0	<0.002	<0.002	0
Pesticides (Carbendazim)	P150	µg/l	62	0	<0.01	<0.01	0
Pesticides (Carbetamide)	P010	µg/l	4	0	<0.01	<0.01	0
Pesticides (Chlormequat)	P163	µg/l	62	0	<0.004	0.022	0
Pesticides (Chlorothalonil)	P015	µg/l	62	0	<0.001	0.009	0
Pesticides (Chlortoluron)	P014	µg/l	66	0	<0.006	0.052	0
Pesticides (Clopyralid)	P018	µg/l	4	0	<0.004	<0.004	0
Pesticides (Dicamba)	P025	µg/l	4	0	<0.003	<0.003	0
Pesticides (Dichlorprop)	P026	µg/l	4	0	<0.002	<0.002	0
Pesticides (Dieldrin)	P028	µg/l	62	0	<0.003	0.008	0
Pesticides (Diuron)	P032	µg/l	66	0	<0.003	0.022	0
Pesticides (Fenoprop)	P105	µg/l	4	0	<0.002	<0.002	0
Pesticides (Fenpropimorph)	P037	µg/l	62	0	<0.005	0.016	0
Pesticides (Fluroxypyr)	P040	µg/l	4	0	<0.004	<0.004	0
Pesticides (Flutriafol)	P039	µg/l	62	0	<0.009	0.034	0
Pesticides (Glyphosate)	P042	µg/l	62	0	<0.008	<0.008	0
Pesticides (Heptachlor)	P043	µg/l	62	0	<0.001	0.002	0
Pesticides (Heptachlor epoxide)	P044	µg/l	62	0	<0.001	0.001	0
Pesticides (Ioxynil)	P049	µg/l	4	0	<0.002	<0.002	0
Pesticides (Isoproturon)	P048	µg/l	66	0	<0.006	0.022	0
Pesticides (Linuron)	P051	µg/l	4	0	<0.01	<0.01	0

Pesticides (MCPA)	P054	µg/l	4	0	<0.002	<0.002	0
Pesticides (MCPB)	P055	µg/l	4	0	<0.004	<0.004	0
Pesticides (MCP (Mecoprop))	P053	µg/l	66	0	<0.002	0.063	0
Pesticides (Methabenzthiazuron)	P167	µg/l	62	0	<0.003	0.028	0
Pesticides (Monuron)	P113	µg/l	4	0	<0.02	<0.02	0
Pesticides (Pendimethalin)	P118	µg/l	62	0	<0.004	0.021	0
Pesticides (Pentachlorophenol)	P060	µg/l	4	0	<0.002	0.003	0
Pesticides (Picloram)	P122	µg/l	4	0	<0.01	0.011	0
Pesticides (Prometryn)	P070	µg/l	4	0	<0.01	<0.01	0
Pesticides (Propazine)	P066	µg/l	4	0	<0.01	<0.01	0
Pesticides (Propyzamide)	P071	µg/l	4	0	<0.006	<0.006	0
Pesticides (Simazine)	P073	µg/l	66	0	<0.003	0.018	0
Pesticides (Tebuconazole)	P177	µg/l	62	0	<0.004	<0.004	0
Pesticides (Tebuthiuron)	P189	µg/l	4	0	<0.02	<0.02	0
Pesticides (Terbutryn)	P077	µg/l	4	0	<0.01	<0.01	0
Pesticides (Trichlopyr)	P131	µg/l	66	0	<0.003	0.015	0
Pesticides (Trifluralin)	P081	µg/l	62	0	<0.001	0.001	0
Pesticides - Total Substances	B010	0.5 µg/l	66	0	0	0.124	0
<b>TOTAL</b>	-	-	<b>1888</b>	<b>1</b>	-	-	-

**Table SES 7: 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)
Chloride	D002A	250 mg Cl/l	66	0	18.2	61.6
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	316	0	0	0
Conductivity	D001	2500 µS/cm	722	0	275.23	586.85
Radioactivity - Gross Alpha	F004	0.1 Bq/l	33	1*	<0.027	0.122
Radioactivity - Gross Beta	F005	1 Bq/l	33	0	<0.042	0.204
Radioactivity - Tritium	F006	100 Bq/l	25	0	<4	<4
Sulphate	A007	250 mg SO <sub>4</sub> /l	66	0	10.3	91.8
Total Organic Carbon (TOC)	A017	No abnormal change	66	n/a	<0.3	5.27
<b>TOTAL</b>	-	-	<b>1326</b>	<b>1</b>	-	-

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

**Table SES 8: 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	153	0	<0.17	<0.17	0
Antimony	B008A	5 µg Sb/l	153	0	<0.1	0.5438	0
Arsenic	B001A	10 µg As/l	153	0	<0.3	2.004	0
Benzene	F002	1 µg/l	153	0	<0.02	<0.02	0
Benzo (a) Pyrene	D007	0.01 µg/l	153	0	<0.001	<0.00192	0
Cadmium	B002	5 µg Cd/l	153	0	<0.1	0.5494	0
Chromium	B004	50 µg Cr/l	153	0	<0.3	1.85	0
Copper	A024A	2 mg Cu/l	153	0	<0.01	0.37492	0
<i>E. coli</i>	C002	0 number/100 ml	1638	0	0	0	0
Enterococci	C003	0 number/100 ml	153	0	0	0	0
Lead	B007A	25 µg Pb/l	153	0	<0.4	11.704	0
Nickel	B006A	20 µg Ni/l	153	0	<0.7	6.62	0
Nitrate	A012	50 mg NO <sub>3</sub> /l	646	0	10.247	35.6	0
Nitrite	A013A	0.5 mg NO <sub>2</sub> /l	646	0	<0.01	0.27371	0
Nitrate/Nitrite Formula	A013C	1 mg NO <sub>2</sub> /l	646	0	0.3	0.7	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	153	0	0	0.00592	0
Selenium	B009	10 µg Se/l	153	0	<0.3	1.2253	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	153	0	0	1.568	0
Trihalomethanes (THMs)	D011	100 µg/l	153	0	0	70.84	0
<b>TOTAL</b>	-	-	<b>5871</b>	<b>0</b>	-	-	-

**Table SES 9: 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	402	0	<12	50.88	0
Colour	A001	20 mg/l Pt/Co scale	646	0	<0.6	4.353	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	648	0	7.249	8	0
Iron	A022	200 µg Fe/l	537	3	<5	176.32	1
Manganese	A023	50 µg Mn/l	402	0	<0.5	9.797	0
Organoleptic Odour	A003	Dilution no. 3 at 25°C	646	0	0	0	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	646	0	0	0	0
Sodium	A009	200 mg Na/l	153	0	11.054	124.22	0
Tetrachloromethane	D008	3 µg/l	153	0	<0.08	<0.08	0
Turbidity	A002	4 NTUs	646	1	<0.07	1.053	1
<b>TOTAL</b>	-	-	<b>4879</b>	<b>4</b>	-	-	-

**Table SES 10: 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 <sub>4</sub> /l	646	0	<0.01	0.1706
Coliform Bacteria	C001A	0 number/100 ml	1638	3	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	646	n/a	0	408
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	646	n/a	0	128
Hydrogen ion (pH)	A006A	9.5 pH Value	648	0	7.249	8
Residual Disinfectant - Total	C010	No abnormal change	1645	n/a	<0.04	0.78
<b>TOTAL</b>	-	-	<b>5869</b>	<b>3</b>	-	-