

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

These tables contain a summary of results of monitoring undertaken by the water company in 2012 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 2012*.

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.

Published 11 July 2013  
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Site Summary Data for Sutton And East Surrey Water Plc

Report Date Range: For the whole year 2012

**Table SES 1: Quality of water leaving treatment works - European Standards**

Parameter Name	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 (Works)	A013B	0.1 mg NO <sub>2</sub> /l	689	0	< 0.01	< 0.01	0
<b>Totals:</b>			<b>689</b>	<b>0</b>			

**Table SES 2: Quality of water leaving treatment works - National Standards**

Parameter Name	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	2,160	0	0	0	0
<i>Cryptosporidium</i>	C111	-(n/a)	3	-n/a			
<i>E.coli</i>	C002	0 number/100 ml	2,160	0	0	0	0
<b>Totals:</b>			<b>4,323</b>	<b>0</b>			

**Table SES 3: Quality of water leaving treatment works - Additional Monitoring Requirements**

Parameter Name	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 (Indicator)	C007	No abnormal change	2,160	-n/a	0	2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	2,160	-n/a	0	4
Residual Disinfectant - Total	C010	No abnormal change	2,160	-n/a	0.2	1.1
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	2,160	0	0.04	0.2139
<b>Totals:</b>			<b>8,640</b>	<b>0</b>		

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

Parameter Name	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	1,664	0	0	0	0
<i>E.coli</i>	C002	0 number/100 ml	1,664	0	0	0	0
<b>Totals:</b>			<b>3,328</b>	<b>0</b>			

**Table SES 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements**

Parameter Name	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 (Indicator)	C007	No abnormal change	1,664	-n/a	0	370
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,664	-n/a	0	10
Residual Disinfectant - Total	C010	No abnormal change	1,664	-n/a	< 0.04	0.85
<b>Totals:</b>			<b>4,992</b>	<b>0</b>		

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

Parameter Name	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
Bromate	F003	10 µg BrO <sub>3</sub> /l	61	0	< 0.2	0.8	0
Cyanide	B003	50 µg CN/l	61	0	< 2	< 2	0
Fluoride	A027	1.5 mg F/l	61	0	< 0.06	0.21	0
Mercury	B005	1 µg Hg/l	61	0	< 0.09	< 0.09	0
Pesticides - Total Substances	B010	0.5 µg/l	61	0	0	0.131	0
Pesticides 2,4-D	P020	0.1 µg/l	8	0	< 0.01	< 0.02	0
Pesticides Atrazine	P004	0.1 µg/l	61	0	< 0.006	0.072	0
Pesticides Azoxystrobin	P227	0.1 µg/l	61	0	< 0.015	< 0.015	0
Pesticides Boscalid	P231	0.1 µg/l	61	0	< 0.01	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	8	0	< 0.01	< 0.02	0
Pesticides Carbetamide	P010	0.1 µg/l	61	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	61	0	< 0.003	0.012	0
Pesticides Diuron	P032	0.1 µg/l	61	0	< 0.005	0.006	0
Pesticides Epoxyconazole	P217	0.1 µg/l	61	0	< 0.01	< 0.01	0
Pesticides Flufenacet	P230	0.1 µg/l	61	0	< 0.015	< 0.015	0
Pesticides Flutriafol	P039	0.1 µg/l	61	0	< 0.005	< 0.005	0
Pesticides Isoproturon	P048	0.1 µg/l	61	0	< 0.005	< 0.005	0
Pesticides MCPA	P054	0.1 µg/l	8	0	< 0.01	< 0.02	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	8	0	< 0.01	< 0.02	0
Pesticides Metaldehyde	P226	0.1 µg/l	24	0	< 0.005	0.088	0
Pesticides Metazachlor	P203	0.1 µg/l	61	0	< 0.005	< 0.005	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	61	0	< 0.005	0.007	0
Pesticides Pendimethalin	P118	0.1 µg/l	61	0	< 0.007	< 0.007	0
Pesticides Propachlor	P126	0.1 µg/l	61	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	61	0	< 0.006	< 0.006	0
Pesticides Prosulfocarb	P243	0.1 µg/l	61	0	< 0.005	< 0.005	0
Pesticides Simazine	P073	0.1 µg/l	61	0	< 0.003	0.053	0
Pesticides Tebuconazole	P177	0.1 µg/l	61	0	< 0.02	< 0.02	0
Pesticides Trichlopyr	P131	0.1 µg/l	8	0	< 0.01	< 0.02	0
<b>Totals:</b>			<b>1,467</b>	<b>0</b>			

**Table SES 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Chloride (Indicator)	D002A	250 mg Cl/l	61	0	18.8	54
<i>Clostridium perfringens</i> (indicator)	C004A	0 number/100 ml	176	0	0	0
Conductivity (Indicator)	D001	2500 µS/cm	348	0	295.98	574.02
Gross Alpha Activity	F004	0.1 Bq/l	8	0	0.018	0.089
Gross Beta Activity	F005	1 Bq/l	8	0	0.083	0.182
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	61	0	14.5	81.3
Total organic carbon (indicator)	A017	No abnormal change	61	-n/a	< 0.3	4.21
<b>Totals:</b>			<b>723</b>	<b>0</b>		

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

Parameter Name	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 failing standard
1,2 Dichloroethane	F001	3 µg/l	160	0	< 0.1	< 0.17	0
Antimony	B008A	5 µg Sb/l	160	0	< 0.02	0.5795	0
Arsenic	B001A	10 µg As/l	160	0	< 0.04	1.0312	0
Benzene	F002	1 µg/l	160	0	< 0.03	< 0.1	0
Benzo (a) Pyrene	D007	0.01 µg/l	160	0	< 0.001	0.002	0
Boron	D005A	1 mg B/l	160	0	0.021	0.08539	0
Cadmium	B002	5 µg Cd/l	160	0	< 0.01	0.0278	0
Chromium	B004	50 µg Cr/l	160	0	< 0.1	2.151	0
Copper	A024A	2 mg Cu/l	160	0	< 0.001	0.21945	0
<i>E.coli</i>	C002	0 number/100 ml	1,704	0	0	0	0
Enterococci	C003	0 number/100 ml	160	0	0	0	0
Lead	B007A	25 µg Pb/l	160	0	< 0.2	6.89	0
Nickel	B006A	20 µg Ni/l	160	0	0.6	11.138	0
Nitrate	A012	50 mg NO <sub>3</sub> /l	620	0	10.921	36.779	0
Nitrate/Nitrite Formula	A013C	1 mg NO <sub>2</sub> /l	620	0	0.221	0.7	0
Nitrite (Consumers tap)	A013A	0.5 mg NO <sub>2</sub> /l	656	0	< 0.01	0.27272	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	160	0	0	0.004	0
Selenium	B009	10 µg Se/l	160	0	< 0.35	1.6039	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	160	0	0	1.817	0
Total Trihalomethanes	D011	100 µg/l	160	0	0	51.17	0
<b>Totals:</b>			<b>6,160</b>	<b>0</b>			

Table SES 10: Quality of water at consumer's tap (zones) - National Standards

Parameter Name	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 failing standard
Aluminium	A021	200 µg Al/l	240	0	< 4	29.49	0
Colour	A001	20 mg/l Pt/Co scale	328	0	< 0.6	2.271	0
Iron	A022	200 µg Fe/l	438	0	2	81.93	0
Manganese	A023	50 µg Mn/l	228	0	< 1.2	4.513	0
Organoleptic Odour	A003	0 Dilution number	329	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	329	0	0	0	0
Sodium	A009	200 mg Na/l	160	0	11.4	67.038	0
Tetrachloromethane	D008	3 µg/l	160	0	< 0.04	< 0.08	0
Turbidity	A002	4 nephelometric turbidity units	380	0	0.0481	0.499	0
<b>Totals:</b>			<b>2,592</b>	<b>0</b>			

**Table SES 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Indicator)	A014	0.5 mg NH <sub>4</sub> /l	372	0	< 0.01	0.19
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	1,704	1	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	656	-n/a	0	356
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	656	-n/a	0	155
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	354	0	7.255	8
Residual Disinfectant - Total	C010	No abnormal change	1,704	-n/a	< 0.04	0.82
<b>Totals:</b>			<b>5,446</b>	<b>1</b>		