

ZL21 – Langley Park Sutton Supply Zone

Monitoring your drinking water supply

The area we supply is divided into 20 smaller water supply areas called Water Supply Zones. SES Water have 8 water treatment works and each supply zone is supplied by one or more of these treatment works.

Properties in Langley Park Sutton supply zone are supplied from our Cheam treatment works.

To monitor the quality of the water we supply, we take and test a number of drinking water samples from treatment works and from randomly selected customer properties in each water supply zone.

The number of samples collected and the types of tests carried out are specified in the Water Supply (Water Quality) Regulations 2016 (as amended) and our regulator, the Drinking Water Inspectorate, also reviews our performance.

In 2018, all the Regulatory sample results for this Water Supply Zone complied with the requirements of the Water Supply (Water Quality) Regulations 2016 (as amended).

Helpful facts:

Hardness:

To help you set your domestic appliances, the average hardness results from our 2018 operational monitoring programme are shown in different units below:

| Calcium (mg/l) | Calcium Carbonate (mg/l) | Millimols | Degrees | | |
|----------------|--------------------------|-----------|--------------|-------------|----------------|
| | | | German (°dH) | French (°f) | °Clark (or °e) |
| 77 | 191 | 1.91 | 10.72 | 19.20 | 13.40 |

(mg/l = milligrammes per litre is the same as parts per million (ppm))

Chlorine

Chlorine is used to disinfect the water supply and make sure there are no harmful bacteria in the water. We also add a small amount of ammonia to form monochloramine, which has a less noticeable chlorine taste and odour.

Fluoride

We do not add fluoride to our drinking water supplies. There is, however, approximately 0.15 mg/l naturally occurring fluoride present.

Nitrate

The average nitrate level in this supply zone is 33 mg/l. This nitrate comes from the source waters supplying the treatment works. The PCV or allowable limit for nitrate in drinking water is 50 mg/l.

Other tests

In addition to the tests listed in the Regulations, water companies also carry out extra tests for monitoring purposes. The following average results for this supply zone may also be of interest:

| | |
|------------------------|--|
| Alkalinity | 156.4 mg/l HCO ₃ |
| Magnesium | 2.7 mg/l Mg |
| Total Dissolved Solids | 283 ppm (calculated based on conductivity measurement) |

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The table below summarises the results of tests carried out on water samples taken from randomly selected consumers' taps in this supply zone.

| Test | No. of Samples taken | Standard | Unit of Measure | Samples Contravening Standard | | Concentration or Value Detected | | |
|--|----------------------|-----------|-----------------------|-------------------------------|------|---------------------------------|---------|---------|
| | | | | No. | % | Minimum | Average | Maximum |
| 1,2-Dichloroethane | 8 | 3 | µg/l | 0 | 0.00 | <0.04 | <0.04 | <0.04 |
| Aluminium | 8 | 200 | µg Al/l | 0 | 0.00 | <4 | <4 | <4 |
| Ammonium | 39 | 0.5 | mg NH ₄ /l | 0 | 0.00 | <0.02 | <0.06 | 0.2 |
| Antimony | 8 | 5 | µg Sb/l | 0 | 0.00 | <0.02 | <0.16 | 0.9 |
| Arsenic | 8 | 10 | µg As/l | 0 | 0.00 | 0.21 | <0.32 | <0.5 |
| Benzene | 8 | 1 | µg/l | 0 | 0.00 | <0.01 | <0.01 | 0.02 |
| Benzo(a)pyrene | 8 | 0.01 | µg/l | 0 | 0.00 | <0.001 | <0.001 | <0.001 |
| Boron | 8 | 1 | mg B/l | 0 | 0.00 | 0.041 | 0.047 | 0.052 |
| Cadmium | 8 | 5 | µg Cd/l | 0 | 0.00 | <0.01 | <0.02 | <0.06 |
| Chlorine Residual – Total chlorine as Monochloramine | 156 | - | mg/l | 0 | 0.00 | 0.07 | 0.21 | 0.3 |
| Chromium | 8 | 50 | µg Cr/l | 0 | 0.00 | 0.2 | 0.3 | 0.6 |
| Coliforms (Total) | 156 | 0 | No/100ml | 0 | 0.00 | 0 | 0 | 0 |
| Colony Count 72h at 22°C | 52 | N/A | No/1ml | 0 | 0.00 | 0 | 5 | 124 |
| Colour | 39 | 20 | mg/l Pt/Co | 0 | 0.00 | <0.8 | <0.8 | 1.1 |
| Copper | 9 | 2 | mg Cu/l | 0 | 0.00 | 0.003 | 0.021 | 0.109 |
| E. coli | 156 | 0 | No/100ml | 0 | 0.00 | 0 | 0 | 0 |
| Enterococci | 9 | 0 | No/100ml | 0 | 0.00 | 0 | 0 | 0 |
| Iron | 8 | 200 | µg Fe/l | 0 | 0.00 | <1 | <3.3 | 8 |
| Lead | 9 | 10 | µg Pb/l | 0 | 0.00 | <0.2 | <1.4 | 5.3 |
| Manganese | 8 | 50 | µg Mn/l | 0 | 0.00 | <1.2 | <1.2 | <1.2 |
| Nickel | 9 | 20 | µg Ni/l | 0 | 0.00 | 1.1 | 1.4 | 2.7 |
| Nitrate | 52 | 50 | mg NO ₃ /l | 0 | 0.00 | 29.4 | 33 | 36.5 |
| Nitrite | 52 | 0.5 | mg NO ₂ /l | 0 | 0.00 | <0.003 | <0.022 | 0.07 |
| Nitrite/Nitrate formula | 52 | 1 | - | 0 | 0.00 | 0.6 | 0.7 | 0.7 |
| Odour (Quantitative) | 39 | N/A | Dil. Num. | 0 | 0.00 | 0 | 0 | 0 |
| pH (Hydrogen Ion) | 39 | 6.5 - 9.5 | pH units | 0 | 0.00 | 7.4 | 7.7 | 7.9 |
| Selenium | 8 | 10 | µg Se/l | 0 | 0.00 | 1.23 | 1.35 | 1.5 |
| Sodium | 8 | 200 | mg Na/l | 0 | 0.00 | 13.1 | 14.3 | 14.8 |
| Sum Tetra- & Trichloroethene | 8 | 10 | µg/l | 0 | 0.00 | 0.3 | 0.38 | 0.53 |
| Taste (Quantitative) | 39 | N/A | Dil. Num. | 0 | 0.00 | 0 | 0 | 0 |
| Tetrachloromethane | 8 | 3 | µg/l | 0 | 0.00 | <0.06 | <0.06 | <0.06 |
| Total PAH (4 Substances) | 8 | 0.1 | µg/l | 0 | 0.00 | 0 | 0 | 0 |
| Total Trihalomethanes | 8 | 100 | µg/l | 0 | 0.00 | 2.5 | 2.7 | 2.9 |
| Turbidity | 39 | 4 | NTU | 0 | 0.00 | 0.04 | 0.09 | 0.27 |

SSCTW - Cheam TW Supply Point

The table below summarises the results of tests carried out on water samples taken from Cheam treatment works which supplies properties in the Langley Park Sutton supply zone.

| Test | No. of Samples taken | Standard | Unit of Measure | Samples Contravening Standard | | Concentration or Value Detected | | |
|-------------------------|----------------------|----------|------------------------|-------------------------------|------|---------------------------------|---------|---------|
| | | | | No. | % | Minimum | Average | Maximum |
| Aldrin | 9 | 0.03 | µg/l | 0 | 0.00 | <0.007 | <0.007 | <0.007 |
| Atrazine | 8 | 0.1 | µg/l | 0 | 0.00 | 0.024 | 0.027 | 0.03 |
| Azoxystrobin | 8 | 0.1 | µg/l | 0 | 0.00 | <0.007 | <0.007 | <0.007 |
| Boscalid | 8 | 0.1 | µg/l | 0 | 0.00 | <0.005 | <0.005 | <0.005 |
| Bromate | 8 | 10 | µg BrO ₃ /l | 0 | 0.00 | <0.4 | <0.4 | <0.4 |
| Carbendazim | 8 | 0.1 | µg/l | 0 | 0.00 | <0.002 | <0.002 | <0.002 |
| Carbetamide | 8 | 0.1 | µg/l | 0 | 0.00 | <0.002 | <0.002 | <0.002 |
| Chloride | 8 | 250 | mg Cl/l | 0 | 0.00 | 25.8 | 26.4 | 27.9 |
| Chlorotoluron | 8 | 0.1 | µg/l | 0 | 0.00 | <0.002 | <0.002 | <0.002 |
| Clostridium perfringens | 8 | 0 | No/100ml | 0 | 0.00 | 0 | 0 | 0 |
| Conductivity | 118 | 2500 | µS/cm | 0 | 0.00 | 375 | 422 | 439 |
| Cyanide | 8 | 50 | µg CN/l | 0 | 0.00 | <2 | <2 | <2 |
| Dieldrin | 9 | 0.03 | µg/l | 0 | 0.00 | <0.006 | <0.006 | <0.006 |
| Diflufenican | 8 | 0.1 | µg/l | 0 | 0.00 | <0.003 | <0.003 | <0.003 |
| Dimethenamid | 8 | 0.1 | µg/l | 0 | 0.00 | <0.003 | <0.003 | <0.003 |
| Diuron | 8 | 0.1 | µg/l | 0 | 0.00 | <0.003 | <0.003 | <0.003 |
| Epoxiconazole | 8 | 0.1 | µg/l | 0 | 0.00 | <0.004 | <0.004 | <0.004 |
| Flufenacet | 8 | 0.1 | µg/l | 0 | 0.00 | <0.003 | <0.003 | <0.003 |
| Fluoride | 8 | 1.5 | mg F/l | 0 | 0.00 | 0.1 | 0.15 | 0.18 |
| Flutriafol | 8 | 0.1 | µg/l | 0 | 0.00 | <0.002 | <0.002 | <0.002 |
| Heptachlor | 8 | 0.03 | µg/l | 0 | 0.00 | <0.007 | <0.007 | <0.007 |
| Heptachlor Epoxide | 9 | 0.03 | µg/l | 0 | 0.00 | <0.012 | <0.012 | <0.012 |
| Isoproturon | 8 | 0.1 | µg/l | 0 | 0.00 | <0.003 | <0.003 | <0.003 |
| Mercury | 8 | 1 | µg Hg/l | 0 | 0.00 | <0.02 | <0.02 | 0.02 |
| Metazchlor | 8 | 0.1 | µg/l | 0 | 0.00 | <0.001 | <0.001 | <0.001 |
| Methabenzthiazuron | 8 | 0.1 | µg/l | 0 | 0.00 | <0.001 | <0.001 | <0.001 |
| Pendimethalin | 8 | 0.1 | µg/l | 0 | 0.00 | <0.007 | <0.007 | <0.007 |
| Picloram | 8 | 0.1 | µg/l | 0 | 0.00 | <0.007 | <0.007 | 0.007 |
| Propyzamide | 8 | 0.1 | µg/l | 0 | 0.00 | <0.001 | <0.001 | <0.001 |
| Prosulfocarb | 8 | 0.1 | µg/l | 0 | 0.00 | <0.001 | <0.001 | <0.001 |
| Simazine | 8 | 0.1 | µg/l | 0 | 0.00 | 0.007 | 0.008 | 0.009 |
| Sulphate | 8 | 250 | mg SO ₄ /l | 0 | 0.00 | 31.9 | 33 | 33.8 |
| Tebuconazole | 8 | 0.1 | µg/l | 0 | 0.00 | <0.002 | <0.002 | <0.002 |
| Total Organic Carbon | 8 | N/A | mg C/l | 0 | 0.00 | 0.52 | 0.56 | 0.61 |
| Total Pesticides | 8 | 0.5 | µg/l | 0 | 0.00 | 0.031 | 0.035 | 0.038 |
| Tri-Allate | 8 | 0.1 | µg/l | 0 | 0.00 | <0.005 | <0.005 | <0.005 |