Logan Water Branch Mandate

To provide safe, reliable & sustainable water and wastewater services for the benefit of the Logan community.
About This Report
This report contains a summary of the drinking water quality supplied to Logan City Council customers for the 2018-2019 financial year\(^1\). Our water met all microbial regulatory health requirements during this time.

Drinking Water Regulations & Monitoring
Logan City Council has an approved Drinking Water Quality Management Plan under the *Water Supply (Safety & Reliability) Act 2008*. The aim of this Plan is to protect public health by managing drinking water hazards and providing safe drinking water.

We also undertake extensive monitoring of the water supply to make sure that the water we deliver to you is safe. We check for *E.coli* (*Escherichia coli*) and assess other health parameters under the *Public Health Regulation 2005* and the *Australian Drinking Water Guidelines (ADWG)*.

*E. coli* is an indicator bacteria. Most varieties are harmless, but if found in drinking water it is a warning sign of possible contamination. Almost all water authorities around the world monitor the safety of drinking water.

The *Public Health Regulation 2005* requires that at least 98% of samples contain no *E.coli* over a 12 month period. We met this compliance limit for the 2018-2019 financial year\(^1\). If we detect *E.coli*, we will take action immediately to protect public health. This is in line with the Drinking Water Quality Management Plan.

Drinking Water Quality Results
We take pride in the quality of our water and the way it’s supplied to our community. The following table shows our drinking water compliance for the 2018-2019 financial year.

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\(^1\) 1st July 2018 to 30th June 2019
## Logan City Council’s Drinking Water Quality Summary

### E. coli by Colilert
- **UNITS:** MPN/100mL
- **TOTAL NO. OF SAMPLES COLLECTED:** 2335
- **NO. OF SAMPLES IN WHICH PARAMETER WAS DETECTED:** 5
- **% SAMPLES COMPLIED:** 99.8%
- **ADWG GUIDELINE (Health):** 98.0%
- **ADWG COMPLIANCE (Health):** ✓

### PARAMETER (Microbial) | UNITS | TOTAL NO. OF SAMPLES COLLECTED | NO. OF SAMPLES IN WHICH PARAMETER WAS DETECTED | % SAMPLES COMPLIED | ADWG GUIDELINE (Health) | ADWG COMPLIANCE (Health)
--- | --- | --- | --- | --- | --- | ---
E. coli by Colilert | MPN/100mL | 2335 | 5 | 99.8% | 98.0% | ✓

### PARAMETER (Physical/Chemical) | UNITS | NUMBER OF SAMPLES COLLECTED | MIN | MAX | MEAN | ADWG Guideline (Aesthetic) | ADWG Guideline (Health) | ADWG Compliance (Health)
--- | --- | --- | --- | --- | --- | --- | --- | ---
Alkalinity as (CaCO3) mg/L | mg/L | 217 | 43 | 99 | 89 | ns | b | b
Aluminium, Total (Al) mg/L | mg/L | 547 | 0.01 | 0.16 | 0.07 | 0.2 | b | b
Ammonia-N (NH3) mg/L | mg/L | 1265 | <0.1 | 0.4 | <0.1 | 0.5 | b | b
Arsenic, Total (As) mg/L | mg/L | 547 | <0.001 | 0.001 | <0.001 | ns | 0.01 | ✓
Barium, Total (Ba) mg/L | mg/L | 547 | <0.001 | 0.035 | 0.029 | ns | 2 | ✓
Beryllium, Total (Be) mg/L | mg/L | 547 | <0.001 | <0.001 | <0.001 | ns | 0.06 | ✓
Bismuth, Total (Bi) mg/L | mg/L | 547 | <0.001 | <0.001 | <0.001 | ns | b | b
Boron, Total (B) mg/L | mg/L | 547 | 0.01 | 0.32 | 0.04 | ns | 4 | ✓
Bromine, Total (Br) mg/L | mg/L | 547 | <0.001 | <0.001 | <0.001 | ns | 0.002 | ✓
Calcium Hardness mg/L | mg/L | 547 | 38 | 89 | 67 | ns | b | b
Calcium, Total (Ca) mg/L | mg/L | 547 | 15 | 36 | 27 | ns | b | b
Chloride (Cl) mg/L | mg/L | 1265 | <0.1 | 0.4 | <0.1 | 0.5 | b | b
Chlorine, Free mg/L | mg/L | 2335 | <0.05 | 1.77 | 0.32 | ns | 5 | ✓
Chlorine, Total mg/L | mg/L | 2335 | <0.05 | 2.90 | 0.96 | 0.6 | 5 | ✓
Chromium, Total (Cr) mg/L | mg/L | 547 | <0.001 | 0.004 | <0.001 | ns | 0.05 | ✓
Cobalt, Total (Co) mg/L | mg/L | 547 | <0.001 | <0.001 | <0.001 | ns | b | b
Colour, Apparent Hazen | mg/L | 547 | <1 | 60 | 2 | 15 | b | b
Colour, True Hazen | mg/L | 547 | <1 | 2 | <1 | ns | b | b
Conductivity μS/cm | μS/cm | 2009 | 174 | 835 | 476 | ns | b | b
Copper, Total (Cu) mg/L | mg/L | 547 | <0.001 | 0.112 | 0.006 | 1 | 2 | ✓
Flouride (F) mg/L | mg/L | 547 | <0.1 | 1.2 | 0.4 | ns | 1.5 | ✓
Iron, Total (Fe) mg/L | mg/L | 547 | <0.003 | 1.080 | 0.021 | 0.3 | b | b
Lead, Total (Pb) mg/L | mg/L | 547 | <0.001 | 0.007 | <0.001 | ns | 0.01 | ✓
Lithium, Total (Li) mg/L | mg/L | 547 | <0.001 | 0.001 | <0.001 | ns | b | b
Magnesium, Total (Mg) mg/L | mg/L | 547 | 2 | 23 | 13 | ns | b | b
Manganese, Total (Mn) mg/L | mg/L | 547 | <0.001 | 0.080 | 0.003 | 0.1 | 0.5 | ✓
Molybdenum, Total (Mo) mg/L | mg/L | 547 | <0.001 | 0.001 | <0.001 | ns | 0.05 | ✓
Nickel, Total (Ni) mg/L | mg/L | 547 | <0.001 | 0.096 | <0.001 | ns | 0.02 | ✓
Nitrate (NO3-N) mg/L | mg/L | 547 | <0.1 | 3.5 | 1.4 | ns | 50 | ✓
Nitrite (NO2-N) mg/L | mg/L | 547 | <0.1 | 1.3 | 1.0 | ns | 3 | ✓
pH pH Units | pH Units | 2000 | 7.0 | 8.8 | 7.9 | 6.5 - 8.5 | b | b
Potassium, Total (K) mg/L | mg/L | 544 | 1 | 6 | 3 | ns | b | b
Selenium, Total (Se) mg/L | mg/L | 547 | <0.01 | <0.01 | <0.01 | ns | 0.01 | ✓
Sodium, Total (Na) mg/L | mg/L | 547 | 12 | 67 | 42 | 180 | b | b
Sulphate (SO4) mg/L | mg/L | 547 | 4 | 46 | 24 | 250 | b | b
Temperature °C | °C | 2335 | 15.6 | 34.1 | 24.1 | ns | b | b
Thallium, Total (Tl) mg/L | mg/L | 547 | <0.001 | <0.001 | <0.001 | ns | b | b
Total Dissolved Solids (TDS) Calculated | mg/L | 1173 | 105 | 507 | 284 | 600 | b | b
Total Hardness | mg/L | 547 | 47 | 160 | 121 | 200 | b | b
Trihalomethanes, Total (THMs) | mg/L | 1322 | <0.02 | 0.21 | 0.12 | ns | 0.25 | ✓
Turbidity | NTU | 2000 | <0.5 | 21 | <0.5 | 5 | b | b
Zinc, Total (Zn) mg/L | mg/L | 547 | <0.01 | 0.57 | <0.01 | 3 | b | b

**Definitions:**
- **a:** The Public Health Regulation 2005 requires that at least 98% of samples contain no E.coli over a 12 month period.
- **b:** An Australian Drinking Water Guidelines 2001 health guideline does not exist for this parameter.
- **ns:** No ADWG value supplied.