

Guidance and Instructions for completion of LT2 E. coli data

- 1) These results cannot be submitted via E2 and must be submitted on form LT2-2 (BSDW-201).
- 2) This regulation requires the enumeration of E. coli for the source water samples. The EPA approved E. coli methods are as follows:

Standard methods 9221B.1/9221F (LTB-EC-MUG)

Standard Methods 9223B

Standard Methods 9222B/9222G (mEndo/LES-Endo-NA-MUG)

Standard Method 9222D/9222G (mFC-NA-MUG)

Standard Methods 9213D/EPA Method 1103.1 (mTEC)

EPA Method 1603 Modified mTEC

EPA Method 1604 MI medium

m-ColiBlue24 Broth

- 3) If no E. coli are detected in the sample, the detection limit based on the volume of sample analyzed may be reported (example: < 1 CFU/100 ml or < 1.8 MPN/100 ml)
- 4) For membrane filter data, if there are greater than 200 colonies per membrane, even for the lowest dilution, the result is recorded as TNTC but cannot be reported for LT2 monitoring. Unless the TNTC result was obtained for all dilutions due to unusual conditions such as heavy rains or flooding, during the next sampling event, analyze an additional lower dilution volume.
- 5) For membrane filter data, if colonies are not sufficiently distinct for accurate counting, the result is recorded as confluent growth or CNFG but cannot be reported for LT2 monitoring. If smaller sample aliquots are filtered and still result in CNFG, then during the next sampling event even smaller volumes should be analyzed.
- 6) If growth is due to high levels of total coliform but low E. coli then another method should be chosen for analyses that do not rely on total coliform determination prior to E. coli determination.