

## Quarterly Bacteriological Reporting Explanation

The purpose of the quarterly bacteriological reporting is to help ensure public health and safety by monitoring compliance with regulatory requirements through the consistent reporting and assessment of sample submission and results reported by regulated parties. The report provides information on the regulated parties' compliance with bacteriological and chlorine residual sampling submissions and test results for the most recent calendar quarter as stipulated in the facilities' "Permit to Operate a Waterworks".

The first calendar quarter is reported for the months January, February and March. The second calendar quarter is reported for the months April, May and June. The third calendar quarter is reported for the months July, August and September. The fourth calendar quarter is reported for the months October, November and December.

For the purpose of sample compliance and quarterly reporting, a regulated party must submit 100% of all required samples in order to be considered compliant. Environmental Project Officer (EPO) follow-up with the regulated party occurs when their bacteriological or chlorine sampling and/or monitoring requirements are less than 90% compliant. A letter of non-compliance may be issued from the Ministry regardless of the reason for the non-compliance.

### Quarterly Bacteriological Report Header Explanations

- **Bacti Required:** This is the number of regularly required bacteriological samples to be collected from random locations throughout the water distribution system for the calendar quarter. This requirement is the quarterly representation of the bacteriological monitoring required as stipulated in the facilities' "Permit to Operate a Waterworks". For example a community with a weekly bacteriological sampling requirement would be required to submit 13 samples every calendar quarter.
- **Bacti Submitted:** This is the actual number of regular bacteriological samples submitted during the reported calendar quarter. Additional samples taken as a result of a positive regularly required bacteriological sample, as per the bacteriological sampling protocol, are not counted.
- **% Bacti Submitted:** This is the percentage of regular required bacteriological samples submitted in the reported calendar quarter.
- **Bacti Positives:** This is the number of regular required bacteriological samples that indicated the presence of bacteria within the distribution system
- **% Bacti Positives:** This is the percentage of regular required bacteriological samples that indicated the presence of bacteria within the distribution system, submitted in the reported calendar quarter.
- **Total Bacti Submitted:** This is the total number of bacteriological samples submitted during the reported calendar quarter including any additional samples taken as a result of a positive regularly required sample.
- **Adequate Chlorine:** This is number of samples where the chlorine residuals measured in the distribution system at the time of all the reported bacteriological sampling that met the regulatory requirement (either the free chlorine is over 0.1 ppm OR the total chlorine is over 0.5 ppm).
- **Inadequate Chlorine:** This is the number of bacteriological samples where the chlorine residuals measured in the distribution system at the time of all the reported bacteriological sampling that did not meet the regulatory requirement.

