#### Untitled

### ENVIRONMENTAL MONITORING AND TECHNICAL SERVICES

### WATER QUALITY CHEMISTRY SERVICES

### STANDARD OPERATING PROCEDURE

#### APPROVED BY:

#### Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### Doug Campbell, Laboratory Director

#### Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### Jim Demorest, Technical Supervisor

#### Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### Paty(Norma) Quintero, Responsible Analyst

#### Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### Gloria Siqueiros, QA/DM Supervisor

## This Standard Operating Procedure (SOP) must be reviewed annually. If no changes were made, sign and date below. If updates are made, the SOP needs to be re-written and replaced with a new revision number.

#### Reviewed by Date Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Scope and application

* 1. This procedure describes the acquisition, sub-culturing and storage of bacterial stock strains used for QC purposes. To properly demonstrate traceability and selectivity, use only reference cultures from recognized national collections (i.e. ATCC), or ones that are traceable to these organizations.

# summary of method

* 1. Subheader to Method
  2. Upon receipt of new reference cultures, culture and incubate overnight. Biochemically test this suspension to certify its expected reactions. Subculture the overnight bacterial suspension into a 20% glycerol-TSB medium and incubate overnight. This heavy bacterial suspension is suitable for long term storage. Aliquot this into freezer vials and freeze in the ultra-low temperature freezer at -80 C for long-term storage.
     1. Text here
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           1. Text here
     2. When QC organisms are needed, take one vial from the -80 C freezer; sub-culture it, and then use for QC purposes.

# tables

|  |  |  |
| --- | --- | --- |
| Bacterial\_species | Water\_Source | MCL |
| Total coliforms | Lake or Source | 10,000cfu/100 mL |
| Fecal coliform | Lake or Source | 400cfu/100 mL. |
| Enterococcus | Lake or Source | 61cfu/100 mL. |
| Total coliforms | treatment plant influent | 1,000cfu/100 mL |
| Total and fecal coliforms | Finished water | 1cfu/100 mL |
| Total and fecal coliforms | Finished water | Present/100 mL |

# worksheets

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##### Titles are now this style