

4. If all bacteriological test samples show no potential for bacteria growth and a coliform M.P.N / 100ML less than 2.2 after the 48 hour testing period, the water mains are considered clear. In the event the test samples show a potential for bacteriological growth or the coliform number is 2.2 or above, the sterilization procedure must be restarted at Step 1 within 24 hours of notice.
5. Approximately sixty hours after samples are taken, confirmed results are available. If all tests are acceptable, the water system will be turned on by the City.

* City inspection required.

** Should the end of any of the foregoing periods fall on a City non-working day, the order of procedure will be continued to the next regular City working day.

NOTES:

1. Bacteriological samples may be obtained from a blow off or service connection with a minimum 16-inch riser pipe and hose spigot.

No samples will be collected directly from a fire hydrant but fire hydrant may be subject to a sample point directly in front of the hydrant off of the fire hydrant main feed line as approved by the City.

2. The cost for all bacteriological samples tests and succeeding tests required due to the failure of the prior test are the responsibility of the Contractor, including the cost for retesting.
3. The Contractor will not be permitted to operate any valves on the system being sterilized once sterilization procedures have begun. Any such operation will invalidate the test resulting in restarting the sterilization procedure at Step 1. After sterilization procedures are complete and the system accepted by the City, the contractor will not be permitted to operate any valves as described in the paragraph on page W-17. City forces alone will have the authority to operate valves after sterilization.

WATER SYSTEM DESIGN PRACTICES

A. Water Mains.

1. Residential Districts. The minor distribution main supply residential districts shall be at least 6 inches in diameter and arranged to form a good grid in all areas of the distribution system. Where long lengths of pipe are necessary (1,000 feet) with no side connections, 8 inch or larger main shall be used. Eight inch mains, or larger, should be used where dead ends or a poor grid are likely to exist for a considerable time or where the layout of the streets is not well adapted to a good grid. In all cases, main sizes shall meet requirements mandated by fire flows.

ENGINEERING DEPARTMENT

CITY OF MERCED, CA.

WATER SYSTEM - CONSTRUCTION SPECIFICATIONS

W-21

DRAWN: KGE

APPROVED BY:

DATE

DATE: 5/82

David T. Tucker

11/15/04

REVISED: 9/16/04

CITY ENGINEER

SHEET

OF