Guidelines for Resolving Bacteriological Problems  
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Public water systems which have a positive bacteriological water sample from the 
distribution system must conduct repeat sampling in accordance with the requirements 
specified in the California Code of Regulations (CCR). Each public water system is 
required to maintain a Bacteriological Sample Siting Plan to guide the system through 
routine sampling and repeat sampling in the event of a positive sample. In the event of a 
positive water sample, the water system should follow their Sample Siting Plan and 
contact the regulatory agency to discuss the problem.

To investigate the potential cause of the positive water sample, the system operator 
should review both the system facilities and the sampling procedures. The water system 
may need the technical assistance of an engineer, water treatment expert or pump 
company to evaluate the system. This review should include the items listed below.

Source review: Is there a problem with the source water prior to treatment? Does the well 
produce water which contains coliform bacteria prior to treatment? Is the well construction adequate? Are there openings on the wellhead that may allow contaminants to enter the well casing? Is the well properly located with respect to sources of contamination? Is disinfection of the well necessary to eliminate coliform bacteria?

Treatment review: Is the treatment system operating normally? Are records maintained 
which document the recent operation of the treatment system? Is there an adequate chlorine residual in the system? For surface water systems: Are turbidity performance standards being met? Has there been a breakdown in any part of the treatment process?

Distribution system review: Has the system been depressurized for repairs? Are there any significant leaks that might allow infiltration into the distribution system? Is the system adequately protected from cross-connections?

Storage tank review: What is the current interior condition of each storage tank? Is there 
an excessive amount of sediment inside of a tank? Have any contaminants entered a storage tank through an unsealed opening, broken screen or other means? When was the last time that the storage tank was cleaned and disinfected? Is it necessary to disinfect the storage tanks?

Sampling procedures review: Was the sample properly collected? Was the sample bottle in proper condition? Was the sample collected from a “good” sample tap? Avoid swing faucets (commonly use in kitchens) and sample taps with aerators.