

**Common Sanitary Defects and Possible Corrective Actions
For
Mississippi Public Water Supplies**

Common Cause	Common Corrective Action(s)
Failure to disinfect (or improper disinfection) after maintenance work in the distribution system	<ul style="list-style-type: none"> • Disinfection
Main breaks	<ul style="list-style-type: none"> • Disinfection • Replacement/repair of distribution system components
Holes in storage tank, inadequate screening, etc.	<ul style="list-style-type: none"> • Maintenance of storage facility • Addition of security measures • Development & implementation of an operations plan
Cracks in well seal, casing, etc.	<ul style="list-style-type: none"> • Replacement/repair of well components
Loss of system pressure	<ul style="list-style-type: none"> • Maintenance of adequate pressure • Valve maintenance • Addition or upgrade of on-line monitoring & control
Biofilm accumulation in the distribution system	<ul style="list-style-type: none"> • Flushing • Maintenance of adequate pressure
Cross connections	<ul style="list-style-type: none"> • Maintenance of adequate pressure • Installation of backflow prevention assembly/device • Implementation/upgrade of cross connection control program
Inadequate disinfectant residual	<ul style="list-style-type: none"> • Disinfection • Flushing • Maintaining appropriate hydraulic residence time • Addition or upgrade of on-line monitoring & control
Contaminated sampling taps	<ul style="list-style-type: none"> • Replacement/repair of distribution system components • Sampler training
Sampling protocol errors	<ul style="list-style-type: none"> • Sampler training • Development & implementation of an operations plan