

Preparing for A Sanitary Survey

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RCAC is the EFC for Region 10 EPA

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Your presenter...

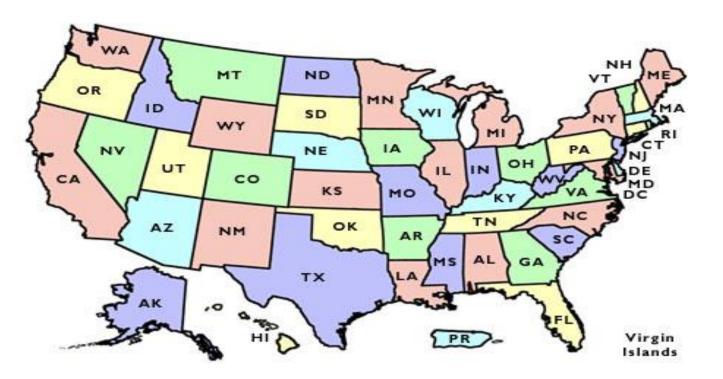
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- B.S. Ch E
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Course Objectives

Understand what a sanitary survey is

Understand what will be inspected

Understand what records are needed



Who is in the room?





What is a sanitary survey?



40 CFR DEFINITION

"Sanitary survey means an onsite review of the water source, facilities, equipment, operation and maintenance of a public water system for the purpose of evaluating the adequacy of such source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water."



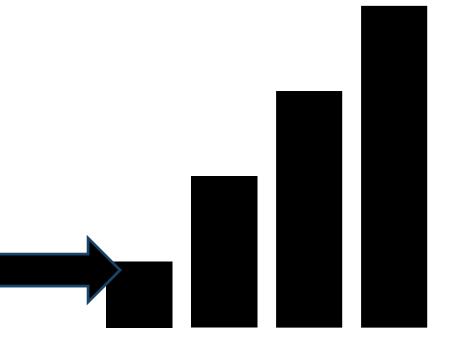
Have you been through a sanitary survey?





Sanitary surveys...

 Evaluate the multiple barriers for protection of drinking water





How often are sanitary surveys required?

- Required every 3 to 5 years.
- If your system is scheduled for a sanitary survey then a surveyor will contact your facility.



Sanitary Surveys also

- Provide an opportunity to educate the system operators
- Enhance communication between TA providers, system, primacy agencies



Who Performs the Sanitary Survey

- Primacy Agency
- TA Provider or Contractor



A Survey Has Been Scheduled. Now What?

- Who Should attend?
 - Operator(s)
 - Owner/Utilities Manager
 - Administrative contact



A Survey Has Been Scheduled. Now What?

- Prepare for questions about
 - General operations
 - Management
 - Security
 - Specific technical questions



How do I prepare for the survey?

- The survey will include
 - A records review
 - A field inspection.



Eight Areas of a Sanitary Survey

1. Source(s) *

2. Treatment

3. Distribution System

4. Finished Water Storage *



Eight Areas of a Sanitary Survey

5. Pumps, pumping stations

- 6. Monitoring & Reporting *
- 7. Management & Operation *
- 8. Operator Compliance



How do I prepare for the survey?

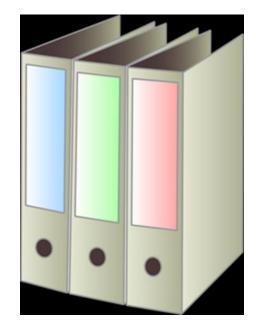
 Having records ready for review will provide for a more efficient use of time.





Get your records together!

 Getting your records organized prior to the survey will make for a more efficient use of time during the survey





How do I prepare for the survey?

- For the field inspection
 - Make sure all areas are safe
 - Have all necessary keys
 - Make sure all parts of the system are accessible.





What records to get ready...

- Previous sanitary surveys
- Current population served
- Number of residential & commercial connections
- List of active & inactive sample sites
- Plant output (gallons/day)

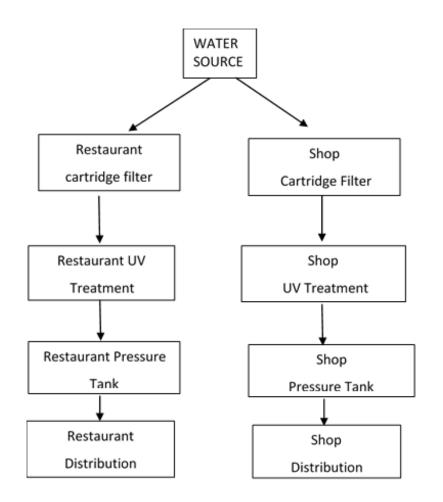


What records to get ready...

- Any new facilities put on-line since the last survey
- Monitoring plans and current sample maps
- Testing results, bacteriological, chemical testing, chlorine residuals *
- System schematics



Example Schematic





What records to get ready...

- Storage tank cleaning reports*
- List of certified operators *
- Copies of well logs and well abandonment reports *





What records to get ready...

- Disinfection Profile (if SW/GWUDI)
- Cross connection control plan *
- Operations & Maintenance (O & M) plan *
- Emergency Response Plan *
- Other paperwork



What type of water source(s) do you have?





Get ready for the field inspection...

 Checking these items before the survey can minimize the likelihood of being cited for Significant Deficiencies





Get ready for the field inspection...

- Assure the following:
 - All facilities are accessible
 - All facilities are safe
 - All facilities are working



Get ready for the field inspection...

- Assure the following, continued:
 - All facilities are clean and orderly
 - If portions of your facilities are owned/controlled by other entities, contact them <u>prior</u> to the survey to coordinate access.



Things the surveyor will look at in the field





Sources





- Wells
 - Area surrounding the well graded away from the well?
 - Does the well extend a minimum of 18" above the final ground elevation or 12" above the pump house slab?
 - Are conduits sealed?



Wells, continued

- Vents and/or vacuum breakers screened with 24-mesh noncorrodible screen?
- Any openings into the well?



Well Screens









Why worry about the vents and seals?





- For Springs
 - Surface water drainage pathways into the spring box
 - Spring box is properly constructed
 - Hatch, roof, overflow vent
 - Drain pipe on collection box screened



- Surface water sources
 - Upstream pollution sources
 - Intakes protected from silt build up
 - Multiple intake locations
 - Control over watershed



Storage Tanks



Environmental Finance Center EPA REGION 10

- Location of overflows and drain line discharges
 - have either 24-mesh non-corrodible screen, or a properly sealing flapper or duckbill valve?



• Types of overflow coverings









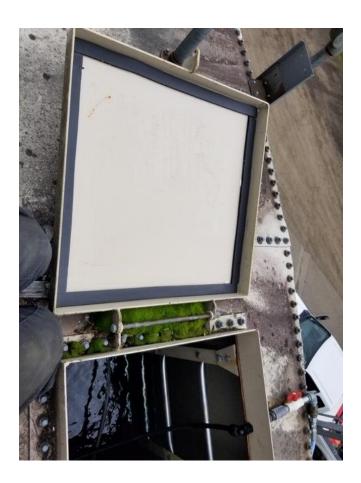
Tank Hatches

- Shoebox lid that overlaps the opening?
- Rubber gasket that is in good condition?
- Locking mechanism and is locked?



During the Survey





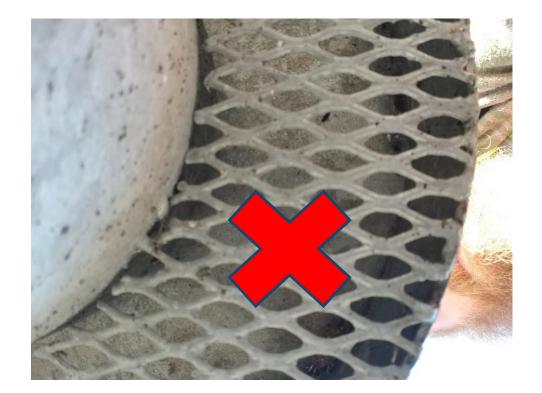


Storage Tanks

- Tank vent has a 24-mesh non-corrodible screen?
- Any leaks?
- Tank been cleaned and inspected within the last 10 years?









Please note:

- In some areas, surveyors are not allowed to climb standpipes or elevated storage tanks.
- Surveyors also will not climb unsafe tanks or ladders.



 If the surveyor is unable to personally observe the storage tank top, you will need to provide pictures (either taken at the time of the survey or dated).



After the Survey

- Surveyor compiles information
- The primacy agency will review the information





After the Survey

 If significant deficiencies are identified by the primacy agency, you typically have 120 days to correct the deficiencies or submit a Corrective Action Plan (CAP)



Questions?



Contact Information

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