# **HI SDWB Sanitary Survey Form**

### Pre-Inspection

| Date of Survey     | Date |
|--------------------|------|
| PWS ID No.         |      |
| Water System Name  |      |
| Water System Owner |      |
| PWS Contact Person |      |
| Phone              |      |
| Email Address      |      |

| PWS Type                   | Choose PWS Type |
|----------------------------|-----------------|
| Source                     | Choose an item. |
| Consecutive From           | Choose an item. |
| Population Served          |                 |
| No. of Service Connections |                 |
| Average Daily Flow (MGD)   |                 |

# Persons Present During Sanitary Survey (provide name and affiliation)

| 1. | 6.  |
|----|-----|
| 2. | 7.  |
| 3. | 8.  |
| 4. | 9.  |
| 5. | 10. |

### **Compliance History**

| Violations Since Last Sanitary Survey |      |             |        |
|---------------------------------------|------|-------------|--------|
| Violation Type                        | Date | Description | Status |
| Violation Type                        | Date |             |        |
| Violation Type                        | Date |             |        |
| Violation Type                        | Date |             |        |

# System Management and Operation

| Annual Report or Similar Document Provided                                    | Yes, No, N/A                |
|---|-----------------------------|
| CCR Database Storage and Compliance Status                                    | Satisfactory/Unsatisfactory |
| Is an Updated Emergency Response Plan Available per HAR 11-19-5 (County Only) | Yes, No, N/A                |

| Pumps, Pump Facilities, and Controls   |                       |                       |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Source Name  |                       |                       |                       |                       |
| Location   |                       |                       |                       |                       |
| Source Type  | Choose Source Type    | Source Type           | Source Type           | Source Type           |
| Source Infrastructure  | Choose Infrastructure | Choose Infrastructure | Choose Infrastructure | Choose Infrastructure |
| USGS Number  |                       |                       |                       |                       |
| Well Depth (ft)  |                       |                       |                       |                       |
| Pump Type  | Choose Pump Type      | Choose Pump Type      | Choose Pump Type      | Choose Pump Type      |
| Rated Flow (gpm)   |                       |                       |                       |                       |
| TDH (ft)   |                       |                       |                       |                       |
| Pump lubrication   | Choose an item.       | Choose an item.       | Choose an item.       | Choose an item.       |
| Condition of oil lubricating equipment   | Choose an item.       | Choose an item.       | Choose an item.       | Choose an item.       |
| Pump in 100-Year Floodplain  | Yes or No             | Yes or No             | Yes or No             | Yes or No             |
| Pump site protected from runoff  | Yes or No             | Yes or No             | Yes or No             | Yes or No             |
| Well slab/floor material condition   | Choose an item.       | Choose an item.       | Choose an item.       | Choose an item.       |
| Watertight seal for:   |                       |                       |                       |                       |
| Pump base plate/discharge head<br>openings   | Yes, No, or N/A       |
| Airline tubing for water level measurements?   | Yes, No, or N/A       |
| Pump column vent hole/tubing?  | Yes, No, or N/A       |
| Pump-to-Waste vent elevated and screened/flappered?  | Choose an item.       | Choose an item.       | Choose an item.       | Choose an item.       |
| Condition of Pump-to-Waste screen/flapper  | Choose an item.       | Choose an item.       | Choose an item.       | Choose an item.       |
| All ARVs are screened  | Yes, No, or N/A       |
| All ARVs are pointed downward  | Yes, No, or N/A       |
| Emergency power exists?  | Yes or No             | Yes or No             | Yes or No             | Yes or No             |
| Emergency power test frequency   | Choose an item.       | Choose an item.       | Choose an item.       | Choose an item.       |
| Emergency power protected from vandalism or the elements?                                  | Yes or No             | Yes or No             | Yes or No             | Yes or No             |
| Identify cross-connections (submerged outlets, standing water, hose bib connections, etc.) |                       |                       |                       |                       |
| Recent daily maintenance log entries attached (photo ok)                                   |                       |                       |                       |                       |
| Questions for Booster Pumps only:  |                       |                       |                       |                       |
| Pumps From / To  |                       |                       |                       |                       |
| # of Pumps   |                       |                       |                       |                       |
| Configuration (# online / # backup)  |                       |                       |                       |                       |
| Remarks  |                       |                       |                       |                       |

| Groundwater Source Protection            |   |   |   |   |
|--|---|---|---|---|
| Source(s) Name                           |   |   |   |   |
| Infrastructure immediately downstream    | Infrastructure  | Infrastructure  | Infrastructure  | Infrastructure  |
| Emergency Spill Response Plan available? | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Source Site:                             |   | ·   |   | ·   |
| In a 100-Year Flood Plain?               | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Protected from runoff?                   | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Enclosed?                                | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Fenced and gated?                        | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Warning signs posted?                    | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Inappropriate chemicals stored?          | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Chemical additions?                      | Choose an item.   | Choose an item.   | Choose an item.   | Choose an item.   |
| Safety Data Sheets (SDS) onsite          | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Potential Contaminating Activities       | <ol> <li>Choose an item.</li> <li>Choose an item.</li> <li>Choose an item.</li> </ol> | <ol> <li>Choose an item.</li> <li>Choose an item.</li> <li>Choose an item.</li> </ol> | <ol> <li>Choose an item.</li> <li>Choose an item.</li> <li>Choose an item.</li> </ol> | <ol> <li>Choose an item.</li> <li>Choose an item.</li> <li>Choose an item.</li> </ol> |
| Remarks                                  |   |   |   |   |

| GAC Treatment  |                             |  |  |
|--|-----------------------------|--|--|
| Facility Name  |                             |  |  |
| Raw Water Source & Type  |                             |  |  |
| Raw Water Source Flow  |                             |  |  |
| Bypass Piping  | Yes/No                      |  |  |
| Downstream Infrastructure  |                             |  |  |
| Target Contaminant Removal   |                             |  |  |
| No. of Contactors  | # (# on standby)            |  |  |
| Condition of tanks, piping, valves, general site, etc. (e.g., rust, holes, insects, etc.)  | Satisfactory/Unsatisfactory |  |  |
| All ARVs are screened  | Yes, No, or N/A             |  |  |
| All ARVs are pointed downward  | Yes, No, or N/A             |  |  |
| Overflow line screen/flapper   | Satisfactory/Unsatisfactory |  |  |
| Washout / drain line outlet location (e.g.<br>settling basin, percolation pond, irrigation<br>ditch, stream, drain manhole, inlet) |                             |  |  |
| Carbon Replacement Schedule  |                             |  |  |
| Method of Spent Carbon Disposal (if known)   |                             |  |  |
| Configuration  | Single Pass/Series/Parallel |  |  |
| Sampling Schedule (List frequency and location)  |                             |  |  |
| O&M Manual On-site?  | Yes/No                      |  |  |
| Maintenance Log On-site?   | Yes/No                      |  |  |

| Corrosion Control Treatment  |   |
|--|---|
| Facility Name  |   |
| Source being Treated   |   |
| Purpose for Corrosion Control<br>Treatment   | 1) Lead Action Level Exceedance; 2) Copper Action Level Exceedance; 3) Preventive Measure |
| Unit Process   | 1) Chemical pH Adjustment; 2) Corrosion Inhibitor Addition; 3) Aeration pH Adjustment     |
| Chemical/Manufacturer Name #1  |   |
| NSF 60 Certified?  | Yes/No  |
| Dosage   |   |
| How is chemical dosage determined?   |   |
| Unit Redundancy  |   |
| Chemical/Manufacturer Name #2  |   |
| NSF 60 Certified   | Yes/No  |
| Dosage   |   |
| How is chemical dosage determined?   |   |
| Unit Redundancy  |   |
| Proper Chemical Storage  | Yes/No  |
| Proper Chemical Labeling   | Yes/No  |
| Updated SDS On-Site  | Yes/No  |
| Aeration Towers:<br>Vent Insect Screen   | Satisfactory / Unsatisfactory / N/A   |
| Updated O&M Manual<br>On-Site  | Yes/No  |
| List Daily Log Entries   |   |
| List SDWB-Approved Optimal<br>Water Quality Parameters and<br>Testing Frequency & Location,<br>including but not limited to pH,<br>Alkalinity, Calcium, Conductivity,<br>Temperature, Orthophosphate |   |
| Complying with SDWB-Approved<br>Optimal Water Quality Parameters?  | Yes/No  |
| Remarks  |   |

| Surface Water Treatment   |  |
|---|--|
| Facility Name   |  |
| Raw Water Source Name & Type  |  |
| Raw Water Source Flow (min/max/avg)   |  |
| Bypass piping? Describe the bypassed treatment process and last bypass event. |  |
| System infrastructure immediately downstream of WTP                           |  |
| WTP Capacity  |  |

#### Source Water Protection for Surface Water/GWUDI Sources

Under the Long Term 2 Enhanced Surface Water Treatment Rule, a "significant change in the watershed and source water" is defined as any change, which detrimentally affects the raw water delivered to the water treatment plant.

Activities that could contribute to significant changes in the watershed and source water include:

- Changes in land use patterns.
- Changes in ownership.
- Changes in agricultural cropping, chemical application, or irrigation practices.
- Changes in other non-point discharge source activities such as commercial, industrial or residential development.
- Natural or man-made stream or reservoir modifications.
- New NPDES permits or changes in existing NPDES permits that involve increased loading of contaminants.
- NPDES permit violations at wastewater treatment plants and confined animal feedlot operations.
- Accidental or illegal waste discharges and spills.
- Dramatic natural events such as hurricanes, floods, forest fires, earthquakes, and landslides that may transport or expose contaminants.
- Prolonged drought conditions that may warrant special preparatory measures to minimize impacts from waste accumulations that are washed into source waters when precipitation returns.
- Status of the water system's emergency response plan to these significant changes.

The inspector shall answer the next three questions below using these criteria:

| Identify any new significant actual or    |  |
|---|--|
| potential sources of Cryptosporidium      |  |
| Identify any significant hydrological     |  |
| changes in the watershed that could       |  |
| affect Cryptosporidium loading            |  |
| Inspect the intake structure and identify |  |
| any modifications to its location or      |  |
| design                                    |  |
|   |  |

| Presedimentation / Raw Water Reservo   | ir     |
|--|--------|
| Capacity   |        |
| Pretreatment – Chemical Addition   |        |
| Purpose  |        |
| Chemical Name  |        |
| NSF 60 Certified?  |        |
| Dosage   |        |
| How is chemical dosage determined?   |        |
| Unit Redundancy  |        |
| <b>Pretreatment – Prescreening</b>   |        |
| Strainer/filter type & sieve/pore size   |        |
| Solids disposal?   |        |
| Unit Redundancy  |        |
| Pretreatment – Other   |        |
| Describe pre-treatment process (e.g. PAC, UV, microfiltration, MIEX)   |        |
| Coagulation/Flocculation   |        |
| Configuration (# online/ #backup/tank shape)   |        |
| Coagulant chemical   |        |
| How is chemical dosage determined?<br>What is the protocol for flashy or<br>prolonged higher turbidity events? |        |
| Option to manually operate?  | Yes/No |
| Sedimentation  |        |
| Configuration (# online/ #backup/tank shape)   |        |
| Sludge handing (dewatering & disposal)   |        |

| Filtration  |              |                   |       |  |
|---|--------------|-------------------|-------|--|
| Configuration (# online/ #backup/filter media)  |              |                   |       |  |
| Backwash frequency & basis?   |              |                   |       |  |
| Frequency of filter replacement   |              |                   |       |  |
| Recycling of supernatant or backwash water?   |              |                   |       |  |
| Is Filter Backwash Recyling Rule<br>requirements met? (i.e. recycled back<br>to the head of the plant) – for<br>conventional and direct filtration<br>plants only |              |                   |       |  |
| Post-Treatment  |              |                   |       |  |
| Purpose   | Disinfection | Corrosion Control | Other |  |
| Chemical Name   |              |                   |       |  |
| NSF 60 Certified?   |              |                   |       |  |
| Dosage  |              |                   |       |  |
| How is chemical dosage determined?  |              |                   |       |  |
| Unit Redundancy   |              |                   |       |  |
| Activated Carbon  |              |                   |       |  |
| Configuration (# online/<br>#backup/series or parallel)   |              |                   |       |  |
| Targeted contaminants   |              |                   |       |  |
| Solids handling & disposal  |              |                   |       |  |
| <b>Operation &amp; Maintenance</b>  |              |                   |       |  |
| Is an updated O&M Manual available on-site for operator consultation?   | Yes/No       |                   |       |  |
| Is an updated O&M Manual submitted to DOH every 2 years in July?  | Yes/No       |                   |       |  |
| Are daily operations scheduled and listed for plant operators to follow?  | Yes/No       |                   |       |  |
| Daily maintenance logs kept onsite?   | Yes/No       |                   |       |  |
| List Daily Log entries  |              |                   |       |  |
| Are appropriate spare parts and tool kits maintained onsite?  | Yes/No       |                   |       |  |

| Is there a cross-connection p                    | rogram? Yes/No              |                                  |            |                       |
|--|-----------------------------|----------------------------------|------------|-----------------------|
| Is there a worker safety or traprogram?          | aining Yes/No               |                                  |            |                       |
| Chemical handling & storage                      |                             |                                  |            |                       |
| Proper chemical handling an equipment available? | I es/NO                     |                                  |            |                       |
| Were chemicals stored in a sroom?                | r es/no                     |                                  |            |                       |
| Was adequate separation of c chemicals provided? | lifferent Yes/No            |                                  |            |                       |
| Were SDS sheets available o                      | n-site? Yes/No              |                                  |            |                       |
| Was adequate ventilation pro                     | ovided? Yes/No              |                                  |            |                       |
| Describe alarm system                            |                             |                                  |            |                       |
| Describe emergency procedu                       | ires                        |                                  |            |                       |
| Emergency power                                  |                             |                                  |            |                       |
| Is emergency power availabl                      | e? Yes/No                   |                                  |            |                       |
| How often is it exercised?                       |                             |                                  |            |                       |
| Is it exercised under full load                  | l? Yes/No                   |                                  |            |                       |
| Monitoring – List parameters                     | s monitored, location & rec | corded with frequency and instru | iment name |                       |
| Parameter  | Location                    | Frequency                        | Instrument | Calibration Frequency |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |
|  |                             |                                  |            |                       |

| Alarms – List plant alarms and location           |          |           |                         |
|---|----------|-----------|-------------------------|
| Alarm   | Location | Setpoints | Steps Taken After Alarm |
|   |          |           |                         |
|   |          |           |                         |
|   |          |           |                         |
|   |          |           |                         |
|   |          |           |                         |
| Reporting (CT compliance, etc.)                   |          |           |                         |
| Reporting violations received in the              |          |           |                         |
| last 12 months:                                   |          |           |                         |
| Verify disinfection points, CT                    |          |           |                         |
| monitoring points, calculated volumes,            |          |           |                         |
| flows and unit processes                          |          |           |                         |
| Miscellaneous                                     |          |           |                         |
| Are site boundaries appropriately fenced & gated? | Yes/No   |           |                         |
| Does appropriate warning or "keep                 | Yes/No   |           |                         |
| out" signage exist?                               | 1 05/110 |           |                         |
| Are all building doors appropriately              | Yes/No   |           |                         |
| signed (e.g. chlorine, etc.)?                     | 103/110  |           |                         |
| Does site maintenance control                     | Yes/No   |           |                         |
| vegetation & vector habitats?                     | 105/110  |           |                         |

| Disinfection  |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|
| Name of Source being disinfected  | Enter Source Name   | Enter Source Name   | Enter Source Name   | Enter Source Name   |
| Disinfection method   | Disinfection method | Disinfection method | Disinfection method | Disinfection method |
| Labeled chemical manufacturer's information                             |                     |                     |                     |                     |
| Meets NSF 60  | Yes or No           | Yes or No           | Yes or No           | Yes or No           |
| Equipment in enclosed structure   | Yes or No           | Yes or No           | Yes or No           | Yes or No           |
| Material of enclosed structure  | Choose an item.     | Choose an item.     | Choose an item.     | Choose an item.     |
| Warning signs present   | Yes or No           | Yes or No           | Yes or No           | Yes or No           |
| Feed equipment type   | Туре                | Туре                | Туре                | Туре                |
| Number of back-up units   | Quantity            | Quantity            | Quantity            | Quantity            |
| Target residual at far ends of distribution system (ppm)                |                     |                     |                     |                     |
| Target residual at EPD point (ppm)                                      |                     |                     |                     |                     |
| How are feed adjustments made?  | Adjustment type     | Adjustment type     | Adjustment type     | Adjustment type     |
| No. of days chemicals are stored<br>(60-90 days max, 30 days preferred) |                     |                     |                     |                     |
| Disinfectant feed point location  |                     |                     |                     |                     |
| Copy of daily log attached  |                     |                     |                     |                     |
| Preventative maintenance program  | Yes or No           | Yes or No           | Yes or No           | Yes or No           |
| Critical spare parts and repair kit on hand                             | Yes or No           | Yes or No           | Yes or No           | Yes or No           |
| Backup power available?   | Yes or No           | Yes or No           | Yes or No           | Yes or No           |
| Emergency response plan procedures onsite                               | Yes or No           | Yes or No           | Yes or No           | Yes or No           |

|  | Source Name | Source Name | Source Name | Source Name |
|--|-------------|-------------|-------------|-------------|
| For Gas Chlorination                                       |             |             |             |             |
| Chlorinators in a separate room?                           | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Automatic switch-over equipment                            | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Cylinders labeled and chained                              | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Protective cap on stored cylinders                         | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Working scale  | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Chlorine leak detectors/kits in room                       | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Leak detection/low residual alarms                         | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Positive pressure SCBA availability and training           | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Chemical handling clothes, safety equipment and tools      | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Light and exhaust fan switches outside of he room          | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Panic bars on outward-swinging door to outside             | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Adequate floor ventilation                                 | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| Viewing window into room                                   | Yes or No   | Yes or No   | Yes or No   | Yes or No   |
| For Chloramination   |             | ·           | ·           |             |
| In what order and ratio is ammonia combined with chlorine? |             |             |             |             |

| Finished Water Storage  |                             |                             |                             |                             |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Tank Name   |                             |                             |                             |                             |
| Spillway elevation (ft)   |                             |                             |                             |                             |
| Capacity (MG)   |                             |                             |                             |                             |
| Material of construction  | Material                    | Material                    | Material                    | Material                    |
| Exposure to unauthorized persons  | Choose an item.             | Choose an item.             | Choose an item.             | Choose an item.             |
| Surrounding landscape   | Choose an item.             | Choose an item.             | Choose an item.             | Choose an item.             |
| Site fenced   | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Warning signs   | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Gates locked  | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Cross-connection potential with onsite irrigation                       | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Site drainage   | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Condition of tank exterior  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Condition of access ladder  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Vent insect screen  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Tank access hatch   | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Visual water quality  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Overflow hatch  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Level indicator cable opening   | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Overflow line screen/flapper  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| Washout drain line  | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory | Satisfactory/Unsatisfactory |
| O & M program   | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Frequency of inspection of tank roof and interior and exterior surfaces | Choose an item.             | Choose an item.             | Choose an item.             | Choose an item.             |
| Frequency of tank interior cleaning                                     | Choose an item.             | Choose an item.             | Choose an item.             | Choose an item.             |
| Tank isolation by valving   | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Disinfection onsite   | Yes or No                   | Yes or No                   | Yes or No                   | Yes or No                   |
| Remarks   |                             |                             |                             |                             |

| Distribution and Transmission   |   |
|---|---|
| System pipe materials   | <ol> <li>Choose pipe material and enter size</li> <li>Choose pipe material and enter size</li> <li>Choose pipe material and enter size</li> </ol> |
| System pressure range (psi)   |   |
| Method of isolation   |   |
| Security measures   | Choose an item.   |
| Installation and repair procedures for water mains  |   |
| Flushing schedule and procedure   |   |
| Leak detection control program  | Satisfactory/Unsatisfactory   |
| Corrosion control program   |   |
| For all surface water, GWUDI, and non-<br>county groundwater systems: Has there<br>been any substantial modifications to the<br>water system, as per HAR 11-20-30, since<br>the last sanitary survey? | Choose an item.   |
| Remarks   |   |

| Technical Capacity   |  |
|--|--|
| OPERATOR CERTIFICATION<br>Each public water system (except transient, non-community) shall be<br>under the responsible charge of an operator(s) holding a valid<br>certification equal to or greater than the classification of the WTP or<br>DS. Check whether the water system operators are certified. A backup<br>certified operator is recommended.   | <ul> <li>System has a certified operator</li> <li>System has a backup certified operator</li> <li>The system does not have the required certified operators</li> <li>If the answer is "no" to any of the above, explain.</li> </ul>  |
| ADEQUATE WATER SOURCES<br>Discuss with water system whether the present water sources are<br>adequate for the future (next 5 years). CWRM-issued pump installation<br>permit and the projected number of service connections in the next five<br>years should be provided. Source(s) should meet average and maximum<br>day demand, otherwise, water use limitations per meter must be<br>formally documented and made known to all users. | <ul> <li>Are the existing sources of sufficient quantity and quality to meet current and future demand based on County Water System Standards and the Department of Health, respectively?</li> <li>□ Yes □ No, explain:</li> <li>Does the system have a backup source in case of a primary source failure? □ Yes □ No</li> <li>Does the system have an emergency connection with other systems?</li> <li>□ Yes □ No</li> </ul> |

| Technical Capacity  |   |
|---|---|
| POTENTIAL FOR CONTAMINATION OF THE WATER<br>Inspect for pathways that could contaminate the finished water at the<br>well site, storage tanks, or distribution system. Systems must take<br>corrective actions as directed by the SDWB. | Are all Potential Contaminant Sources (PCS) within the system's service area identified?         □ Yes       □ No         The PWS has uncorrected significant deficiencies:         □ Yes       □ No         The PWS has a history of significant deficiencies on every sanitary survey:         □ Yes       □ No         Have controls been implemented to remediate the issue that caused an significant deficiency?         □ Yes       □ No, explain: |
| MONITORING PROGRAMS<br>Check water quality monitoring performance.  | Bacteriological Monitoring Program         Satisfactory       Unsatisfactory, explain:         Lead and Copper Monitoring Program         Satisfactory       Unsatisfactory, explain:         Chemical Monitoring         Satisfactory       Unsatisfactory, explain:   |

| Technical Capacity  |   |
|---|---|
| BACKFLOW AND CROSS-CONNECTIONS  | Does the system have a cross connection control program or policy that specifies appropriate devices, design and location standards, annual |
| Check whether backflow prevention devices are used if the water<br>system serves hospitals, farms, golf courses, sewage treatment plants, or<br>other activities that could cause a backflow of contamination into the<br>drinking water. | <ul> <li>testing requirements, and maintains a device inventory and testing history?</li> <li>Yes</li></ul>                                 |

| Managerial Capacity  |  |
|--|--|
| ORGANIZATION AND MANAGEMENT CAPABILITY   | <ul> <li>Is there a clear plan of organization and control among the people responsible for the management and operation of the system?</li> <li>□ Yes □ No, explain:</li> <li>Have all Board members completed board training?</li> <li>□ Yes □ No, explain:</li> <li>Are Board meeting minutes kept and available to system users?</li> <li>□ Yes □ No, explain:</li> <li>Is the system receiving the technical assistance or other support that is needed?</li> <li>□ Yes □ No, describe any assistance or support that would be useful:</li> </ul> |
| ASSET MANAGEMENT<br>The water system should have a complete inventory of all water system<br>assets that includes date of installation, price when installed, anticipated<br>life span, and a maintenance schedule. Additionally, each asset should<br>be prioritized on its critical to the water system. | <ul> <li>Is there a complete inventory of all water system assets?</li> <li>□ Yes □ No, explain what is missing:</li> <li>Is each asset prioritized based on its likelihood and consequences of failure?</li> <li>□ Yes □ No, explain what is missing:</li> <li>If the answer to one or both of the previous questions was "No", what barriers exist to completing and/or prioritizing the system's asset inventory?</li> </ul>  |

| Managerial Capacity  |  |
|--|--|
| EMERGENCY PLANS<br>Check whether the water system has an Emergency Response/Risk<br>Assessment Plan (ERP/RA). The plan should include obtaining backup<br>sources of water in drought situations, loss of a well pump or extended<br>loss of electrical power. | Does the system have an ERP/RA plan that addresses infrastructure breakdown, chemical releases, water quality events, natural disasters or events, backup sources of water, communications, the use of first responders? □ Yes □ No, explain:         How frequently is this document updated?         Does the water system engage in exercises to practice emergency response?         □ Yes □ No, explain:         Does the water system participate in a mutual assistance network like HIWARN?         □ Yes □ No |
| CORRECTION OF PROBLEMS<br>The water system should have plans to correct obvious significant<br>problems noted during the survey. The water system should also have<br>corrected earlier identified significant problem(s) in a timely fashion.                 | List the uncorrected significant deficiencies from the last sanitary survey and check the box if corrected:          1.         2.         3.         4.   |
| VIOLATIONS   | List violations incurred in the last five years  |
| Check for violations this water system has incurred in the past five years.  | Violation Type Date Description Status<br>Date   |

| Financial Capacity   |  |  |  |
|--|--|--|--|
| ADEQUATE FINANCIAL BUDGETS<br>The annual budget should have sufficient income and cash<br>reserves to pay annual operating expenses, unexpected<br>significant repairs, and planned major work. A dedicated<br>source of income should be identified and its adequacy<br>should be evaluated at least every 5 years.                               | <ul> <li>Is there an adequate annual budget?</li> <li>□ Yes □ No, explain:</li> <li>Has the water system completed a rate study or raised rates in the past 5 years?</li> <li>□ Yes □ No, explain:</li> </ul>  |  |  |
| NORMAL OPERATION AND MAINTENANCE<br>Discuss whether funding levels for operation and<br>maintenance are sufficient.  | <ul> <li>Are there sufficient incoming revenues and dedicated funds to cover the necessary expenses for the water system to operate?</li> <li>□ Yes □ No, explain:</li> <li>Are there sufficient funds to cover an emergency expense (i.e. the most expensive component) for the system?</li> <li>□ Yes □ No, explain:</li> </ul>  |  |  |
| CAPITAL IMPROVEMENT PROJECTS<br>(SUSTAINABILITY/RESILIENCY)<br>A capital improvement plan should help the water system<br>plan for future needs, maximize existing assets and adjust<br>for climate change impacts.<br>Sustainable facility improvements are indicative of<br>management understanding and support of the water<br>system's needs. | <ul> <li>Is there a capital improvement plan (CIP)?</li> <li>□ Yes □ No, explain</li> <li>List major capital improvement projects over the last 10-15 years.</li> <li>If there were no capital improvements since the last sanitary survey, is the existing infrastructure adequate?</li> <li>□ Yes □ No, explain what upgrades are needed:</li> <li>Does CIP planning emphasize sustainable and resilient infrastructure, e.g. maximize existing assets, consider climate change</li> <li>□ Yes □ No</li> </ul> |  |  |

| Significant | Deficiencie | s and Recom | nendations |
|-------------|-------------|-------------|------------|
| ~           |             |             |            |

Significant Deficiencies

Recommendations