

**General / Background Info****Name/Location:**

1	Name of public water system:	Text	None
2	PWS number:	Text	None
3	Physical address:	Text	None
4	County:	Text	None
5	Local Health Department::	DropDown	None

**General / Background Info****Classification:**

1	Total System - Design Water Production / Treatment Capacity (GPD): (ENTRIES MUST BE IN GALLONS PER DAY. DO NOT USE COMAS WITH NUMERIC ANSWER)	Numeric	None
2	What is the high peak daily demand (GPD)? (ENTRIES MUST BE IN GALLONS PER DAY. DO NOT USE COMAS WITH NUMERIC ANSWER)	Numeric	None
3	What is the low peak daily demand (GPD)? (ENTRIES MUST BE IN GALLONS PER DAY. DO NOT USE COMAS WITH NUMERIC ANSWER)	Numeric	None
4	SDWA classification of system:	DropDown	None
5	Number of service connections:	Header	None
5.01	Number of residential connections:	Numeric	None
5.02	Number of commercial and industrial connections:	Numeric	None
5.03	Number of Agricultural connections:	Numeric	None
5.04	Number of Combined connections: (SEPARATE CATEGORY - NOT TOTAL OF ALL OTHER TYPES OF CONNECTIONS)	Numeric	None
6	Population	Header	None
6.01	Residential population:	Numeric	None
6.02	Transient Population:	Numeric	None
6.03	Non-Transient: Population:	Numeric	None
6.04	Wholesale Population:	Numeric	None
7	Seasonal operation?	YesNoLeadin	None
7.01	Effective Begin Date: (Will be answered by DDW)	Date	None
7.02	Numeric Month of opening:	Numeric	None
7.03	Numeric Day of opening:	Numeric	None
7.04	Numeric Month of closing:	Numeric	None
7.05	Numeric Day of closing:	Numeric	None
8	Purchase water?	YesNoLeadin	None
8.01	Name of system purchased from: (IF MORE THAN ONE SYSTEM NAME, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	Text	None

QuestionNumber	Question	Response Type	Correct Response
8.02	PWS number of system purchased from: (IF MORE THAN ONE SYSTEM NUMBER, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	Text	None
8.03	Has this interconnection been approved by DDW?	YesNo	Yes
9	Sell water?	YesNoLeadin	None
9.01	Name of system sold to: IF MORE THAN ONE SYSTEM NAME, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	Text	None
9.02	PWS number of system(s) sold to: ( IF MORE THAN ONE SYSTEM NUMBER, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	Text	None

### General / Background Info

#### Owner:

1	Owner type:	DropDown	None
2	Does the system have someone designated as Legal ownership	YesNo	Yes
3	Principal Executive or CEO, Last Name:	Text	None
4	Principal Executive or CEO, First Name:	Text	None
5	Owner's address:	Text	None
6	Owner's address - City:	Text	None
7	Owner's address - State:	DropDown	None
8	Owner's address - Zip code:	Text	None
9	Owner's telephone:	Text	None
10	Owner's email address:	Text	None

### General / Background Info

#### Staff:

1	System Manager's Last name:	Text	None
2	System Manager's First name:	Text	None
3	System Manager's address:	Text	None
4	System Manager's address - City:	Text	None
5	System Manager's address - State:	DropDown	None
6	System Manager's address - Zip code:	Text	None
7	System Manager's telephone:	Text	None
8	System Manager's email address:	Text	None
9	Main Operator's Last name:	Text	None
10	Main Operator's First name:	Text	None
11	Main Operator's address:	Text	None
12	Main Operator's address - City:	Text	None
13	Main Operator's address - State:	DropDown	None

QuestionNumber	Question	Response Type	Correct Response
14	Main Operator's address - Zip code:	Text	None
15	Main Operator's telephone:	Text	None
16	Main Operator's email address:	Text	None
17	Emergency phone number:	Text	None
18	System FAX number:	Text	None

## General / Background Info

### **Previous Survey Info:**

1	Date of last sanitary survey:	Date	None
2	Last survey conducted by - name:	Text	None
3	Have all deficiencies noted during previous survey been corrected? (NOTE: Complete a current IPS report indicating all deficiencies that have been corrected during or prior to current survey. SUBMIT CORRECTIONS TO DDW WITH OTHER SURVEY INFORMATION!)	YesNo	None

## General / SDWIS Site Visit Info

1	Reason for the visit:	DropDown	None
2	Questions sent to water system on:	Date	None
3	Notify Local Health Department. (REQUIRED FOR ALL DEQ AND DDW STAFF AS PER DEPARTMENT POLICY).	Date	None
4	Date of the survey (IF SURVEY TAKES MORE THAN ONE DAY INDICATE FIELD SURVEY COMPLETION DATE IN NOTES SECTION) {A DATE MUST BE ENETERED IN ORDER TO MIGRATE SURVEY}	Date	None
5	Survey Status:	DropDown	None
6	Source Evaluation: (SURVEYOR - DO NOT ANSWER)	DropDown	None
7	Treatment system evaluation: (SURVEYOR - DO NOT ANSWER)	DropDown	None
8	Distribution system evaluatuion: (SURVEYOR - DO NOT ANSWER)	DropDown	None
9	Finished water Storage evaluation: (SURVEYOR - DO NOT ANSWER)	DropDown	None
10	Pump facility evaluation: ((SURVEYOR - DO NOT ANSWER)	DropDown	None
11	Monitoring and reporting evaluation: (SURVEYOR - DO NOT ANSWER)	DropDown	None
12	System management and operations: (SURVEYOR - DO NOT ANSWER)	DropDown	None
13	Operator compliance with state requirements: (SURVEYOR - DO NOT ANSWER)	DropDown	None
14	Last name of surveyor: (LIST ADDITIONAL NAMES IN NOTES)	Text	None
15	First name of surveyor: (LIST ADDITIONAL NAMES IN NOTES)	Text	None
16	Surveyor's organization:	Text	None
17	Surveyor phone number:	Text	None
18	Surveyor e-mail:	Text	None
19	Water system representative(s) present during the survey: (LIST ONLY ONE NAME IN FIELD. ADD ADDITIONAL PARTIES PRESENT IN NOTES)	Text	None

QuestionNumber	Sanitary Survey Questions --- 2014 UTAH	Response Type	Correct Response
20	Official notification of report results sent to water system. (DATE MUST BE ENTERED IN ORDER TO MIGRATE SURVEY)	Date	None
21	Did the surveyor review and discuss the master report, DWSP report and exception report with the system representatives?	YesNo	None
22	If the system has sample analysis data that DDW does not have did the surveyor obtain copies of the missing data and forward to DDW?	YesNo	None
23	Did the surveyor verify the correctness of all contact information in this section?	YesNo	None
24	Did the surveyor verify accuracy of populations and number of connections?	YesNo	None
25	Did the surveyor conduct an EXIT INTERVIEW with the system representatives including identifying all significant deficiencies at the conclusion of the survey?	YesNo	None
26	Upon completion of the survey, the time/cost elements associated with the survey shall be reported to the Division as follows:	Header	None
26.01	How many hours did the surveyor spend to prepare survey documents prior to field survey? (Round to closest quarter hour)	Numeric	None
26.02	What was the number of hours to complete the system field survey (arrival time to completion and should include travel time between water system facilities)?(Round up to nearest quarter hour)	Numeric	None
26.04	What was the total number of hours of travel from office to system and time to return to office at the end of the field survey? (Round up to nearest quarter hour)	Numeric	None
27.05	How much time did it take to finish the Survey Report? (Round to nearest quarter hour)	Numeric	None
30	Did you survey multiple water systems?	YesNoLeadin	None
30.01	If yes, how many?	Numeric	None

### Regulations / Plans/Records

1	Does the (TCR) sample site plan meet the minimum requirements? (REQUIRED FOR ALL SYSTEMS. ANSWER NO, if no plan is present)	YesNo	Yes
---	---	-------	-----

### Management / General

1	Does the system haul water?	YesNoLeadin	None
1.01	Is the water system a community water system?	YesNo	No
1.02	Has system received DDW approval to haul water?	YesNo	Yes
1.03	Are the DDW guidelines for water hauling followed? (ie draw water from an approved source, periodically clean and disinfect equipment, load, disinfect water and unload water properly)	YesNo	Yes

### Management / Planning

#### **General:**

1	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations)	YesNoLeadin	None
1.01	Does the system meet a minimum of 90% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
1.02	Does the system meet a minimum of 80% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
1.03	Does the system meet a minimum of 70% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
1.04	Does the system meet a minimum of 60% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
1.05	Does the system meets less than 60% of the required source capacity? ( ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
2	The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations)	YesNoLeadin	None
2.01	Does the system meet a minimum of 90% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
2.02	Does the system meet a minimum of 80% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
2.03	Does the system meet a minimum of 70% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
2.04	Does the system meet a minimum of 60% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
2.05	Does the system meet less than 60% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	Yes
3	If the system is a community system that serves 100 or more connections does the system have at least 2 water sources?	YesNo	Yes
4	Has there been any recent modifications to the water system?	YesNoLeadin	None
4.01	Does the system have evidence of DDW review of recent modifications or are there any undocumented water system facilities, excluding sources? (i.e. tanks, pump stations, treatment facilities, etc.)	YesNo	No
4.02	Recent modifications - Briefly describe modifications or undocumented facilities	Text	None
5	Local Fire Authority - last name:	Text	None
6	Local Fire Authority - first name:	Text	None
7	Local Fire Authority -Address:	Text	None
8	Local Fire Authority - City:	Text	None
9	Local Fire Authority - State:	DropDown	None
10	Local Fire Authority - Zip Code:	Text	None
11	Local Fire Authority - Telephone #:	Text	None
12	Local Fire Authority - Email address:	Text	None

### **Management / Emergency Response**

1	Does your system serve less than 3300 in population?	YesNoLeadin	None
1.01	Does your system have a written Emergency Response Plan? (Credit points given for "yes" answer)	YesNo	No
1.02	Has your Emergency Response Plan been updated within the last 3 years?	YesNo	None
2	Does your system serve a population of 3300 or greater?	YesNoLeadin	None
2.01	Does your system have the EPA required Emergency Response Plan?	YesNo	Yes
2.02	Has your Emergency Response Plan been updated within the last 3 years? (Credit points given for "yes" answer)	YesNo	No
3	Is there a procedure in place to respond immediately to customer complaints?	YesNoLeadin	None
3.01	What type(s) of complaints do you receive?	Text	None
3.02	How do you respond to customer complaints?	Text	None

**Management / Cross-Connections**

1	Are there any unprotected connections between the distribution system and any location whereby unsafe water or other contaminating materials may be discharged or drawn into the system? Discribe cross- conn. in notes (lack of a hose bibb vacuum breaker is	YesNo	No
2	Does the water system have all 5 of the following elements of a written cross-connection control program ? (ALL SYSTEMS ARE REQUIRED TO HAVE DOCUMENTATION OF ALL FIVE ELEMENTS - NO EXCEPTIONS)	Header	None
2.01	Legally adopted authority statement? (ALL SYSTEMS ARE REQUIRED TO HAVE A DOCUMENTED AND SIGNED STATEMENT - NO EXCEPTIONS)	YesNo	Yes
2.02	Documentation of annual public awareness and/or employee training? (ALL SYSTEMS ARE REQUIRED TO DOCUMENT THEIR ACTIVITIES - NO EXCEPTIONS)	YesNo	Yes
2.03	Documentation of personnel trained to manage the program? (Completion of DDW approved Backflow 101 training OR Class I Backflow Technician Certification IS REQUIRED)	YesNo	Yes
2.04	Records of hazards found, protection required and installed, enforcement actions, assembly testing etc.? (ALL SYSTEMS ARE REQUIRED TO DOCUMENT ACTIVITIES ANNUALLY - NO EXCEPTIONS)	YesNo	Yes
2.05	Documentation of on-going program enforcement? (ie records of periodic hazard assessments, annual test report, updated assembly inventory, etc. The system must have ALL FOUR of the other elements in order to answer this question as "yes" )	YesNo	Yes

**Management / Staffing**

1	Main Operator's Treatment Certification Level:	DropDown	None
2	Main Operator's Distribution Certification Level:	DropDown	None
3	Is the main operator properly certified at the level required for the system? (IF NO CERTIFIED OPERATOR IS REQUIRED DO NOT ANSWER)	YesNo	Yes
4	If there is a certified operator, is he or she available within 1 hour travel time at all times as required by R309-300? (IF NO CERTIFIED OPERATOR IS REQUIRED DO NOT ANSWER)	YesNo	Yes

**Management / Source Protection**

1	All systems: Has the system appointed a designated person for their source protection program and notified the Division of Drinking Water who that person is? (PLEASE INDICATE CURRENT DESIGNATED PERSON IN NOTES AREA BELOW)	YesNo	Yes
2	Is their phone number and address different from the water system?	YesNoLeadIn	None
2.01	Updated address:	Text	None
2.02	Updated phone number:	Text	None
3	All systems: Does the system have any active sources with disapproved PERs or disapproved DWSPs?	YesNo	No
4	All systems: Does the system have any active sources with PERs that have not been upgraded to full DWSP plans?	YesNo	No
5	All systems:All systems: Does the system have any new, active sources for which a PER has not been submitted?	YesNo	No
6	: All systems: Does the system have any existing (old, pre-1993), active sources for which a DWSP Plan has not been submitted?	YesNo	No
7	All systems: Is the system current on all required updates of source protection plans for active sources?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
8	All systems: Has the system submitted revised DWSP plan for all active wells that have been reconstructed?	YesNo	Yes

**Sources / General****General:**

1	3	Are there any undocumented source(s) physically connected to the drinking water system? (If source is not on system inventory mark "yes")	YesNo	No
---	---	---	-------	----

**Sources / Groundwater****Wells / General:**

1	Is this a seasonal source?	YesNoLeadin	None
1.02	Numeric month of beginning operation:	Numeric	None
1.03	Numeric day of beginning operation:	Numeric	None
1.04	Numeric month of ending operation:	Numeric	None
1.05	Numeric day of ending operation:	Numeric	None

**Sources / Groundwater****Wells / Construction:**

1	The well casing does NOT extend a minimum of 18 inches above the finished ground surface or 12 inches above the well house floor? (Answer "No" IF STANDARD IS MET)	YesNoLeadin	None
1.01	Is the well site in a flood plain or area likely to be flooded?	YesNo	No
2	Is the sanitary seal properly installed and maintained? (Note: If this is a pitless adapter DO NOT ANSWER)	YesNo	Yes
3	Is there a pitless adapter?	YesNoLeadin	None
3.01	Does the pitless adapter appear to be water tight including the cap, cover, casing extension and other attachments?	YesNo	Yes
4	Is the well casing vented? (Included in rule guidance. A casing vent is not required but must meet requirements if present)	YesNoLeadin	None
4.01	Is the open end of the vent screened with a #14 mesh screen?	YesNo	Yes
4.02	Is the open end of the vent down-turned?	YesNo	Yes
4.03	Is the open end of the vent have adequate clearance to prevent contamination from entering the well?	YesNo	Yes
5	Does the well have a pump to waste line? (Included in rule guidance. A pump to waste line is not required but must meet requirements if present)	YesNoLeadin	None
5.01	Does the pump to waste line discharge with a minimum of 12-inch clearance to the flood rim?	YesNo	Yes
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen?	YesNo	Yes
5.03	Does the pump to waste line discharge to a sanitary sewer without proper local authorization?	YesNo	No
6	Is there a means to periodically measure water levels?	YesNo	Yes
7	Is the wellhead properly secured to protect the quality of the well water?	YesNo	Yes

**Sources / Groundwater****Wells / Pumps:**

1	Where does this pumping station pump from and to?	Text	None
---	---	------	------

QuestionNumber	Question	Response Type	Correct Response
2	What type of pump(s) are at this pumping station?	DropDown	None
3	Is the building and equipment protected from flooding?	YesNo	Yes
4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	Numeric	None
5	Are cross-connections present in the well discharge piping? (Lack of Hose Bibb Vacuum breaker is NOT considered a cross-connection)	YesNo	No
6	Is adequate drainage provided?	YesNo	Yes
7	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	YesNo	No
8	Is the pump discharge line (excluding naturally flowing wells) equipped with:	Header	None
8.01	Pump discharge piping: a smooth-nosed sampling tap?	YesNo	Yes
8.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	YesNo	Yes
8.03	Pump discharge piping: pressure gauge?	YesNo	Yes
8.04	Pump discharge piping: a means of measuring flow?	YesNo	Yes
8.05	Pump discharge piping shut off valve?	YesNo	Yes
9	Where a well pumps directly into a distribution system, is there a means to release trapped air from the pump discharge piping? (If well pumps directly to a tank, has an air release valve or pump to waste line answer "yes" explain in notes (Answer 9.01,	YesNoLeadin	Yes
9.01	For a well with an air vacuum relief valve on the well discharge piping, is the discharge piping downturned?	YesNo	Yes
9.02	For a well with an air vacuum relief valve on the well discharge piping, is the discharge screened with a #14 mesh screen?	YesNo	Yes
9.03	For a well with an air vacuum relief valve on the well discharge piping, is the discharge piping have a 6 inch clearance to prevent contamination from entering the the piping?	YesNo	Yes
10	Are the correct types of lubricant used (ANSI/NSF 60)?	YesNo	Yes
11	Is rotating and electrical equipment provided with protective guards?	YesNo	Yes

## Sources / Groundwater

### Springs / General:

1	Is this a seasonal source?	YesNoLeadin	None
1.01	Numeric month of beginning operation:	Numeric	None
1.02	Numeric day of beginning operation:	Numeric	None
1.03	Numeric month of ending operation:	Numeric	None
1.04	Numeric day of ending operation:	Numeric	None

## Sources / Groundwater

### Springs / Construction:

1	Is the area upgradient within 50 feet of the spring collection devices fenced to prevent access by livestock and sources of contamination?	YesNo	Yes
2	Is surface water and drainage diverted from the 50 feet protection zone around the spring?	YesNo	Yes
3	Is the overflow or a combined overflow/ drain discharge screened with a #4 mesh screen?	YesNo	Yes
4	Does the overflow line have 12 to 24 inches freefall?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
5	Does the drain have a proper air gap of at least 2 times the pipe diameter?	YesNo	Yes
6	Is the spring collection area subject to ponding of surface water?	YesNoLeadin	None
6.01	Is there evidence of surface water ponding? (water stains, sediment erosion, water-loving plants, presence of moss or algae indicating duration of ponding, etc).	YesNo	No
6.02	Is there surface water ponding present at the time of the survey?	YesNo	Yes
6.03	Is there evidence that this spring may be subject to the influence of surface Water (UDI)?	YesNo	No
7	Does the spring have 10 feet of impervious soil cover or an acceptable alternate design with liner or the spring collection area shows evedence of damaged liner or imvervious soil cover?	YesNo	Yes
8	Is the spring collection area void of deep rooted vegetation within the fenced collection area?	YesNo	Yes
9	Is there any evidence of roots in the collection lines?	YesNo	No
10	Is a spring collection box present?	YesNoLeadin	None
10.01	Does the spring box have a proper shoe box type lid?	YesNo	Yes
10.02	Spring box: Is the lid properly gasketed?	YesNo	Yes
10.03	If a vent is not present does the lid gasket show signs of being subject to vacuum conditions or does the overflow show signs of use?	YesNo	No
10.04	Is the access to the spring box at least 4 inches above the spring box or 18 inches above the earthen cover?	YesNo	Yes
10.05	Is the spring box secured against unauthorized entry?	YesNo	Yes
10.06	Are there any unsealed openings in the spring collection box?	YesNo	No
11	If a spring box is present, is a vent also present? (IF NO VENT IS PRESENT DO NOT ANSWER QUESTION)	YesNoLeadin	Yes
11.01	Is the collection box vent down-turned or inverted?	YesNo	Yes
11.02	Is the collection box vent properly screened with a #14 mesh screen?	YesNo	Yes
11.03	Does the collection box vent have sufficient clearance to prevent ice blockage or at least 24 inches above the earthen cover?	YesNo	Yes
13	Is a flow meter or other flow measuring device provided?	YesNo	Yes
14	What is the high flow capacity of this spring in gallons per minute (GPM)?	Numeric	None
15	What is the low flow capacity of this spring in gallons per minute (GPM)?	Numeric	None

## Treatment / General

### General:

1	Is this plant operated on seasonal basis?	YesNoLeadin	None
1.01	Numeric month of beginning operation	Numeric	None
1.02	Numeric day of beginning operation	Numeric	None
1.03	Numeric month of ending operation	Numeric	None
1.04	Numeric day of ending operation	Numeric	None
2	Does the treatment plant have any treatment processes other than disinfection or fluoridation?	YesNoLeadin	None
2.01	Is a schematic of the treatment facility readily available and up to date?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
2.02	Is the facility performing adequate process control testing consistent with the specific treatment process?	YesNo	Yes
2.03	Is there any recycling being performed from waste stream?	YesNo	None
2.04	If there is any recycling being performed where does the recycle water re-enter the treatment plant?	Text	None
2.05	For all surface water plants that serve a population greater than 3300, do they have equipment to measure chlorine residuals continuously entering the distribution system?	YesNo	Yes
2.06	Are pre- and post-chlorination systems, for all facilities treating surface water, independent to prevent possible siphoning of raw or partially treated water into the clear well?	YesNo	Yes
2.07	Is cross connection control provided in the in-plant water supply?	YesNo	Yes
2.08	Total System - Design Water Production / Treatment Capacity (GPD):	Text	None
2.09	What is the high peak daily demand (GPD?)	Text	None
2.1	What is the Low peak daily demand (GPD?)	Text	None

## Treatment / General

### **Chemical Use:**

1	Are liquid chemicals used?	YesNoLeadin	None
1.01	Is cross-connection control provided on the service water lines that feed the solution tanks?	YesNo	Yes
1.02	Do overflow pipes, when provided, have free fall discharge?	YesNo	Yes
1.03	Are there adequate spill containment provisions?	YesNo	Yes
1.04	Are acid storage and day tanks provided with separate screened vents?	YesNo	Yes
1.05	Are tanks and tank refilling line entry points properly labeled to designate the correct chemical?	YesNo	Yes
1.06	Is cross-connection control provided so that no direct connections exist between any sewer and a drain or overflow from the feeder, solution chamber or tank?	YesNo	Yes
1.07	Are spare parts available for all chemical feeders?	YesNo	Yes
1.08	Are incompatible chemicals stored separately?	YesNo	Yes
1.09	Do daily operating records reflect chemical dosages and total quantities used?	YesNo	Yes
1.1	Are all chemical feeders properly verified for accuracy?	YesNo	Yes
1.11	Are all chemicals and water contact materials approved by an ANSI/NSF accredited organization?	YesNo	Yes

## Treatment / Activated Carbon

### **Granular:**

1	Are granular activated carbon (GAC) filters used for removal of organic material that may be available as DBP precursors?	YesNoLeadin	None
1.01	If yes, what is the depth of the GAC media in feet?	Numeric	None
1.02	What is the frequency of GAC regeneration?	Text	None
2	What type of filtration media system is being utilized?	DropDown	None
3	When was the last time the filters were evaluated to determine the condition of the media?	Date	None

QuestionNumber	Question	Response Type	Correct Response
4	Are filter run times consistent throughout the year?	YesNo	None
5	What criteria is used to determine when a filter backwash is required?	DropDown	None
6	Are the filters equipped with a surface wash or air scour system to enhance the efficiency of the backwash process?	YesNo	None
7	Has there been any violation in the effluent turbidity in the past 12 months?	YesNo	No

## Treatment / Activated Carbon

### **Powdered:**

1	Is PAC being added for removal of organic material ?	YesNoLeadin	None
1.01	Is PAC added as early as possible in the treatment process to provide maximum contact time?	YesNo	None
1.02	Is the PAC applied before the application point of chlorine or any other oxidant?	YesNo	None
1.03	Is the addition of PAC provided at several points in the system?	YesNo	None
1.04	Is the PAC stored in a room separate from any other chemicals?	YesNo	None
2	Are the feeders manually or automatically controlled?	DropDown	None
3	Are feed lines labeled or color coded according to accepted standards?	YesNo	Yes
4	Are the chemical storage areas clean and dry?	YesNo	None
5	Are vents from feeders, storage facilities and equipment exhaust discharged to the outside atmosphere above grade and remote from air intakes?	YesNo	Yes
6	Do the operators know where all of the chemical application points are and which points are being utilized?	YesNo	None

## Treatment / Chlorination

### **General:**

1	What disinfectant residual is maintained at the entry point of the distribution system?	Text	None
2	During the past year, has the disinfection process operated uninterrupted while water was being produced? If no, describe in comments. (Answer question 2.00 or 4.00 but not both)	YesNo	Yes
3	Have any new connections been added to the system between the point of disinfection and an existing first customer that would change contact time that would affect compliance with regulatory requirements?	YesNoLeadin	None
3.01	How many new connections have been added between the point of disinfection and the first customer?	Numeric	None
4	Is chlorination continuous? (Answer question 2.00 or 4.00 but not both)	YesNo	Yes
5	Are the chlorine (i.e., gas, hypochlorite solution, hypochlorite tablets, granules, and powder), chloramines, and chemicals used to generate chlorine dioxide, certified as complying with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals?	YesNo	Yes
6	Is cross-connection control provided on the service water lines that feed the solution tanks?	YesNo	Yes
7	Is there a means to measure the volume of water treated?	YesNo	Yes
8	Is chlorine residual test equipment available capable of measuring residuals to the nearest 0.1 mg/l in the range below 0.5 mg/l, to the nearest 0.3 mg/l between 0.5 mg/l and 1.0 mg/l and to the nearest 0.5 mg/l above 1.0 mg/l?	YesNo	Yes
9	Are spare parts available to replace parts subject to wear and breakage?	YesNo	Yes

**Treatment / Chlorination****Chlorine Dioxide:**

1	Are combustible or reactive materials (such acids, powdered metals, organics) stored in the operating area?	YesNo	No
2	Is personal protective equipment stored nearby?	YesNo	Yes
3	Is an emergency eyewash and shower immediately outside the operating area?	YesNo	Yes
4	Is there an emergency shutoff for flows to the chlorine dioxide generator?	YesNo	Yes
5	Are chlorite and chlorine dioxide tanks vented outdoors away from operating area?	YesNo	Yes
6	Is a distinguishable alarm triggered by an ambient air chlorine dioxide sensor available?	YesNo	Yes
7	Is wash down water available in the operating area?	YesNo	Yes
8	Is the temperature of the chlorine dioxide operating area maintained between 60 and 100 °F?	YesNo	Yes
9	Does the Operation and Maintenance Manual include safety and emergency response procedures?	Text	None
10	Do operators have ongoing training in safety and emergency response procedures?	YesNo	Yes

**Treatment / Chlorination****Gaseous Chlorination:**

1	Is there standby chlorination equipment of sufficient capacity available to replace the largest unit?	YesNo	Yes
2	Are the chlorinator rooms heated, and protected from excessive heat?	YesNo	Yes
3	Is automatic switch over of chlorine cylinders provided, where necessary, to assure continuous disinfection?	YesNo	Yes
4	Does the ventilating fan take suction near the floor as far as practical from the door and air inlet, with the point of discharge so located as not to contaminate air inlets to any rooms or structures?	YesNo	Yes
5	Are all air inlets located near the ceiling and fitted with louvers?	YesNo	Yes
6	Are vents from feeders and storage discharged to the outside atmosphere, above grade, screened with #14 mesh screen and cleared?	YesNo	Yes
7	Is this a treatment plant?	YesNoLeadin	None
7.01	Is the chlorine room (when at a water treatment plant) constructed in such a manner that all openings between the chlorine room and the remainder of the plant are sealed?	Text	Yes
7.02	Are outward-opening doors present and equipped with panic bars to facilitate a means of easy and rapid exit to the building exterior?	YesNo	Yes
7.03	Do floor drains discharge to the outside of the building and are not connected to other internal or external drain systems?	YesNo	Yes
8	Is chlorine gas feed and storage enclosed and separated from other operating areas?	YesNo	Yes
9	Are full and empty cylinders of chlorine gas restrained in position to prevent upset?	YesNo	Yes
10	Are full and empty cylinders of chlorine gas stored in areas that are not in direct sunlight or exposed to excessive heat?	YesNo	Yes
11	Is a weight scale provided for weighing chlorine gas cylinders / containers?	YesNo	Yes
12	Is respiratory protection equipment, available where chlorine gas is handled, and is it stored at a convenient location, but not inside any room where chlorine is stored?	YesNo	Yes
13	Is the chlorine cylinder utilized 150 pounds in capacity?	YesNoLeadin	None

QuestionNumber	Question	Response Type	Correct Response
13.01	Is a type "A" leak repair kit approved by the Chlorine Institute available?	YesNo	Yes
13.02	Is a bottle of ammonium hydroxide (56 per cent ammonia solution) available for chlorine leak detection?	YesNo	Yes
14	Is the chlorine cylinder utilized 1 ton in capacity?	YesNoLeadin	None
14.01	Is a type "B" leak repair kit approved by the Chlorine Institute available?	YesNo	Yes
14.02	Is a means of leak detection provided?	YesNo	Yes
14.03	Does the water supply to each injector have a separate shut-off valve?	YesNo	Yes

### Treatment / Chlorination

#### Hypochlorination:

1	Is the storage tank covered to minimize corrosive vapors?	YesNo	Yes
---	---	-------	-----

### Treatment / Coagulation

#### General:

1	Does the water contain high turbidity and require pretreatment (sedimentation)?	YesNo	None
2	Does the pre-sedimentation process use the addition of a coagulation chemical?	YesNoLeadin	None
2.01	If yes, what is the coagulation chemical?	Text	None

### Treatment / Coagulation

#### Coagulation:

1	Is a primary coagulant used at all times the plant is in operation?	YesNo	Yes
2	What primary coagulant is being used?	DropDown	None
3	Is a coagulant aid or filter aid being added?	YesNo	None
4	Do you have a plan to determine coagulant dosage?	YesNo	Yes

### Treatment / Filtration

#### General:

1	Are instrumentation and controls for the process operational, and in service?	YesNo	Yes
2	Is settled backwash water recycled?	YesNo	None
3	What are the filter effluent quality goals?	Text	None
4	What type of filtration media system is being utilized?	DropDown	None
5	What is the maximum filtration rate utilized throughout the year?	Text	None
6	What criteria is used to determine when a filter backwash is required?	DropDown	None

### Treatment / Filtration

#### Cartridge:

1	What filter element is used in the cartridge?	DropDown	None
---	---	----------	------

**Treatment / Filtration****Diatomaceous Earth:**

1	Is the filter a pressure or vacuum type?	DropDown	None
2	What are typical filter run times in minutes?	Numeric	None
3	Is the filter septum inspected periodically?	YesNo	Yes
4	Is the filter septum cleaned regularly?	YesNo	Yes

**Treatment / Filtration****Rapid Sand:**

1	What are the filter effluent quality goals?	Text	No
2	What type of filtration media system is being utilized?	DropDown	None
3	What is the average and maximum filtration rate utilized throughout the year?	Text	None
4	What criteria is used to determine when a filter backwash is required?	DropDown	None
5	Are the filters equipped with a surface wash or air scour system to enhance the efficiency of the backwash process?	YesNo	None

**Treatment / Filtration****Slow Sand:**

1	What is the average and maximum filtration rate employed?	Text	None
2	Are head loss gauges used to determine when a filter is to be cleaned?	YesNo	Yes

**Treatment / Filtration****Microfiltration & Ultrafiltration:**

1	Which membrane filtration process is being used?	DropDown	None
2	What is the treatment objective for this particular membrane?	DropDown	None
3	What is the typical turbidity of the influent water?	Text	None
4	What is the typical turbidity of the filter effluent?	Text	None
5	Is pretreatment being utilized?	YesNoLeadin	None
5.01	Is there a screen or pre-filter in place prior to the membranes?	Text	None
6	Is there a way to release trapped air from the membrane skid (i.e. air release or manual valves)?	YesNo	None
7	Is there a filter to waste line on each filter?	YesNo	Yes
8	What criteria are used for initiating a backwash?	Text	None
9	Is there a backwash storage tank, separate from the finished water storage?	YesNoLeadin	None
9.01	Does the backwash storage tank provide only finished drinking water for backwash?	YesNo	Yes
9.02	Is the backwash storage tank of sufficient volume to backwash at least two filters, consecutively?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
9.03	Does the backwash storage tank perform in conjunction with the filter to waste system prior to refilling?	YesNo	Yes
10	Is backwash waste water recycled to the front of the treatment plant prior to re-entering the filter?	YesNoLeadin	None
11	Is this plant equipped with clean-in-place (CIP) function?	YesNoLeadin	None
11.01	What criteria are used for initiating a clean-in-place (CIP) sequence?	Text	None
11.02	How is the CIP sequence initiated?	DropDown	None
11.03	What chemicals are available for a CIP sequence?	Text	None
11.04	Are all CIP chemicals ANSI / NSF 60 approved?	YesNo	Yes
11.05	Where does the CIP waste discharge?	Text	None
12	Are membrane fiber repairs performed with an ANSI / NSF 60 approved adhesive?	YesNo	Yes
13	What is the procedure used for membrane repairs?	Text	None

## Treatment / Flocculation

### Flocculation:

1	Is there an SOP for adjusting flocculator speed?	YesNo	None
---	--	-------	------

## Treatment / Fluoridation

### Fluoridation:

1	Is fluoridation regulated by a local health department?	YesNoLeadin	None
1.01	Identify the name of the local health department.	DropDown	None
1.02	Are fluoride concentrations tested as required by the local health department?	YesNo	Yes
2	Is this fluoridation facility operated on seasonal basis?	YesNoLeadin	None
2.01	Numeric month of beginning operation	Numeric	None
2.02	Numeric day of beginning operation:	Numeric	None
2.03	Numeric month of ending operation:	Numeric	None
2.04	Numeric day of ending operation:	Numeric	None
3	Background fluoride level before adding fluoride (in ppm):	Numeric	None
4	Target dose of fluoride added (in ppm):	Numeric	None
5	Typical fluoride level after adding fluoride (in ppm):	Numeric	None
6	Is there a sampling location for measuring the final fluoride level?	YesNoLeadin	None
6.01	Identify the sampling location of the measured final fluoride level:	Text	None
7	Is there a means to measure the flow of water to be treated?	YesNo	Yes
8	Are fluoride concentrations, including chemical dosage and total water quantity, calculated daily? Do daily operating records reflect chemical dosages and total quantities used?	YesNo	Yes
9	When was the fluoride feed system last calibrated to ensure accuracy?	Date	None

# Sanitary Survey Questions --- 2014 UTAH

QuestionNumber	Question	Response Type	Correct Response
10	Are fluoride testing instruments properly verified (zeroed & recorded split samples) or calibrated?	YesNo	Yes
11	When was the fluoride testing instrument last verified (zeroed & recorded split samples) or calibrated?	Date	None
12	Do the chemicals used for fluoridation meet the NSF/ANSI 60 standard or applicable AWWA standards?	YesNo	Yes
13	Are the fluoride chemicals stored in covered or unopened shipping containers and are stored inside a building? (The fluoride chemicals should be isolated from other chemicals to prevent contamination or unintended chemical reaction.)	YesNo	Yes
14	Are there any fluoride compounds added before lime-soda softening or ion exchange softening process?	YesNo	No
15	Is the electrical outlet used for fluoride feed pump a non-standard receptable type and is interconnected with a well or a service pump? (This is to ensure that the fluoride feed pump can be turned on only when the well or service pump is on.)	YesNo	Yes
16	Are there adequate spill containment provisions?	YesNo	Yes
17	Is there a vent for the chemical storage areas that vents to the atmosphere?	Text	None
18	Is cross connection control provided so that no direct connections exist between any sewer and a drain or overflow from the feeder, solution chamber or tank?	YesNo	Yes
19	Are there incompatible chemicals stored in the fluoride storage or injection areas?	YesNo	No
20	Is fluorosilicic acid used for the fluoridation system?	YesNoLeadIn	None
20.01	Is the acid solution tank mounted on a scale or have other means of measurement (such as level indicator or loss-of-weight recorder), so the total quantity of fluoride used each day can be calculated or recorded?	YesNo	Yes
20.02	Are unsealed storage units for fluorosilicic acid vented to the atmosphere at a point outside any building? (This vent should not be near any building air intake.)	Text	None
20.03	Is neutralizing chemical available for immediate use in case of acid spill?	YesNo	Yes
20.04	Are there deluge shower and eye wash station at a location close but outside of the fluorosilicic acid operating area? (Deluge shower and eye wash station within the fluorosilicic acid operating area may not be accessible in acid spill conditions.)	YesNo	Yes
20.05	Is appropriate personal protective equipment provided for operators, such as acid resistant rubber gloves, apron or coverall, eye or face protection gear for handling fluorosilicic acid?	YesNo	Yes
20.06	If acid bulk storage tank and day tank both exist, are acid storage and day tanks provided with separate screened vents?	YesNo	Yes
20.07	If there is a transfer pump between the acid bulk storage tank and the day tank, is there a way to stop the transfer of the acid from the acid bulk tank to the day tank in case of transfer pump failure?	YesNo	Yes
20.08	Is there an emergency shutoff near the entrance of the fluoride operating area to turn off the transfer pump or injection pump in case of acid spill?	YesNo	Yes
20.09	Is there a provision for handling catastrophic failure of acid bulk storage tank?	YesNo	Yes
20.1	Is there a seismic restraint system for acid bulk storage tank?	YesNo	Yes
21	Is a saturator used for the fluoridation system?	YesNoLeadIn	None
21.01	Are the chemicals stored on pallets?	YesNo	Yes
21.02	Is the water used for sodium fluoride dissolution properly treated for hardness? (The hardness of the makeup water shall be less than 75 mg/l as calcium carbonate.)	YesNo	Yes
21.03	Is there an adequate level of fluoride crystals in the saturator?	YesNo	Yes
21.04	Is there backflow protection on the dilution water line? Is the dilution water line protected from the potential for backflow conditions to exist?	YesNo	Yes
21.05	Is appropriate personal protective equipment provided for operators, such as respiratory protection, safety goggles, acid resistant rubber gloves, and apron for handling dry fluoride compounds?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
21.06	If a hopper is used, is the hopper equipped with an exhaust fan and dust filter and under a negative pressure during transfer of dry fluoride compounds?	YesNo	Yes
21.07	Does air exhausted from fluoride handling equipment discharge through a dust filter to the outside atmosphere of the building for dust control during transfer of dry fluoride compounds?	YesNo	Yes
21.08	Is disposing of empty bags, drums or barrels handled in a manner which minimizes operators' exposure to fluoride dusts?	YesNo	Yes
21.09	Is there a floor drain to facilitate the washdown of floors?	YesNo	Yes
21.1	Is there a flowmeter on the inlet or outlet line to a saturator giving both a flow rate and totalized flow, so the operator can track chemical usage?	YesNo	Yes

**Treatment / Inhibitor Addition****Bimetallic Phosphate:**

1	Are phosphates fed into the drinking water for corrosion control?	YesNo	None
2	Is ph/alkalinity adjustment used as a corrosion control strategy? If so what chemicals are being utilized?	Text	None
3	Are phosphates fed into the drinking water in conjunction with pH adjustment?	YesNo	None
4	Have all proprietary compounds received the specific approval of the reviewing authority before use?	YesNo	Yes
5	Is phosphate testing conducted in the distribution system?	YesNo	None

**Treatment / Inhibitor Addition****Hexametaphosphate:**

1	Are phosphates fed into the drinking water for corrosion control?	YesNo	None
2	Is ph/alkalinity adjustment used as a corrosion control strategy? If so what chemicals are being utilized?	Text	None
3	Are phosphates fed into the drinking water in conjunction with pH adjustment?	YesNo	None
4	Have all proprietary compounds received the specific approval of the reviewing authority before use?	YesNo	Yes
5	Is phosphate testing conducted in the distribution system?	YesNo	None

**Treatment / Inhibitor Addition****Orthophosphate:**

1	Are phosphates fed into the drinking water for corrosion control?	YesNo	Yes
2	Is ph/alkalinity adjustment used as a corrosion control strategy? If so what chemicals are being utilized?	Text	None
3	Have all proprietary compounds received the specific approval of the reviewing authority before use?	YesNo	Yes
4	Are satisfactory chlorine residuals maintained in the distribution system when phosphates are used?	Text	None
5	Is phosphate testing conducted in the distribution system?	YesNo	None

**Treatment / Inhibitor Addition****Polyphosphate:**

1	Are phosphates fed into the drinking water for corrosion control?	YesNo	None
2	Is ph/alkalinity adjustment used as a corrosion control strategy? If so what chemicals are being utilized?	Text	None

QuestionNumber	Question	Response Type	Correct Response
3	Are phosphates fed into the drinking water in conjunction with pH adjustment?	YesNo	None
4	Have all proprietary compounds received the specific approval of the reviewing authority before use?	YesNo	Yes
5	Is phosphate testing conducted in the distribution system?	YesNo	None

### Treatment / Ion Exchange

#### General:

1	Are backwash, rinse and air relief discharge pipes installed in such a manner as to prevent any possibility of back-siphonage?	YesNo	Yes
2	Is the salt that is used for the brine solution approved by an ANSI/NSF accredited organization?	YesNo	Yes
3	Is the make-up water inlet protected from back-siphonage?	YesNo	Yes
4	Are overflows protected with corrosion resistant screens and terminate with either a turned down bend having a proper free fall discharge?	YesNo	Yes

### Treatment / Ion Exchange

#### Ion Exchange:

1	If iron or manganese is removed using ion exchange, does the water contain more than 0.3 milligrams per liter of iron, manganese or a combination thereof?	YesNo	No
2	When iron, manganese, or a combination of the two, is 1 milligram per liter or more is pre-treatment being used?	YesNoLeadin	Yes
2.01	If yes, is the automatic regeneration based on volume of water softened?	YesNo	Yes

### Treatment / Ozonation

#### Ozonation:

1	What is the primary purpose for using ozone?	DropDown	None
2	What is the target dose of ozone in mg/l?	Numeric	None
3	Manufacturer, Model, and Number of the Ozone Generators?	Text	None
4	What is the primary backup capability if there is a failure to provide ozone for disinfection?	DropDown	None
5	What is the source of feed gas for the ozone generators?	DropDown	None
6	Is the dew point of the feed gas less than -76 oF (-60 oC)?	Text	None
7	Are there two or more ozone aqueous residual analyzers used?	YesNo	Yes
8	How often are the ozone aqueous residual analyzers calibrated?	Text	None
9	Is there an ozone quench system to destroy remaining ozone in the water at the end of the contactor?	YesNoLeadin	Yes
9.01	How often is the ozone quench system used?	Text	None
9.02	Do all chemicals used to quench the residual ozone meet ANSI/NSF Standard 60?	YesNo	Yes
10	Are ozone off-gas blowers from the contactor functioning properly?	YesNo	Yes
11	Are ozone off-gas destruction units provided and functioning properly?	YesNo	Yes

**Treatment / Sequestration****Sequestration:**

1	Is iron and/or manganese being sequestered by the addition of a phosphate?	YesNoLeadin	None
1.01	If yes, is the iron, manganese or combination thereof less than 1 milligram per liter in the raw water?	YesNo	Yes
2	Does the total phosphate applied exceed 10 milligrams per liter as PO4?	YesNo	No
3	Are taps located on each raw water source, each treatment unit influent and each treatment unit effluent?	YesNo	No
4	Where phosphate sequestration is practiced, is appropriate phosphate testing equipment provided?	YesNo	Yes
5	Do all chemicals used for polyshosphate sequestration meet ANSI/NSF Standard 60?	YesNo	Yes

**Treatment / Ultraviolet Radiation****Ultraviolet Radiation:**

1	Brand and model information of the UV system	Text	None
2	Number of UV reactor(s)	Numeric	None
3	High flow treated by each UV reactor	Text	None
4	Low flow treated by each UV reactor	Text	None
5	The UV disinfection system is used for treating:	DropDown	None
6	Is there an operating procedure in place to handle UV lamp breakage, power supply interruption, response to alarms, etc.?	YesNo	Yes
7	Is there a UV intensity sensor?	YesNoLeadin	Yes
7.01	How often is the UV intensity sensor calibrated?	Text	None
7.02	Is the UV intensity sensor calibrated per manufacturer's instruction or the operation & maintenance guidelines stated in the UV Disinfection Guidance Manual by EPA?	YesNo	Yes
8	How often is the UV quartz sleeve inspected and cleaned?	Text	None
9	Do chemicals used in the cleaning of UV reactor components in contact with the drinking water meet the ANSI/NSF standard 60?	YesNo	Yes
10	Does the water system claim disinfection credit for using UV disinfection?	YesNoLeadin	Yes
10.01	Is it possible to isolate the UV disinfection system or each UV reactor for maintenance	YesNo	Yes
10.02	Is there backup power source for the UV disinfection system?	YesNo	Yes
10.03	Is there a redundant primary disinfection mechanism in place that will provide primary disinfection when the UV system fails or is out of service?	YesNo	Yes

**Pump Stations / Operation**

1	Is there any unexpected leakage of water from the piping or appurtenances?	YesNo	No
2	Is rotating and electrical equipment provided with protective guards?	YesNo	Yes

**Pump Stations / Design**

1	What type of pump(s) are at this pumping station?	DropDown	None
2	Is there at least two functioning pumping units? (If pumps are used to transfer water from one tank to another only - DO NOT ANSWER. If used to pressurize system two or more pumps are required)	YesNo	Yes
3	Can the demand be met by the remaining pump(s) when the largest pumping unit is out of service?	YesNo	Yes
4	Are the building and equipment protected from flooding?	YesNo	Yes
5	Is adequate drainage provided?	YesNo	Yes
6	Are cross-connections present in pumping stations? ( Lack of a Hose Bibb Vacuum breaker is not cosidered a cross-connection)	YesNo	No
7	Is each pump discharge line equipped a standard pressure gauge on the discharge piping?:	YesNo	None
8	Does the pumping facility have an air relief valve located on the discharge piping?	YesNoLeadin	None
8.01	For a pumping facility with an air vacuum relief valve on the discharge piping, is the discharge piping downturned?	YesNo	Yes
8.02	For a pumping facility with an air vacuum relief valve on the discharge piping, is the discharge piping screened with a #14 mesh screen?	YesNo	Yes
8.03	For a pumping facility with an air vacuum relief valve on the discharge piping, does the discharge piping terminate at least 6 inches above the floor?	YesNo	Yes

**Storage / Gravity****Design:**

1	What is the name of this storage facility?	Text	None
2	What is the total capacity for this storage facility in gallons? (DO NOT USE COMAS IN NUMERIC ANSWER)	Numeric	None
3	Is the area surrounding the ground-level storage structure graded in a manner that will prevent surface water from standing within 50 feet of it?	YesNo	Yes
4	Does the storage tank roof cover show evidence of ponding with deterioration?	YesNo	No

**Storage / Gravity****Components:**

1	Does the water storage tank have a safe access (such as ladders for tanks in excess of 20 feet, ladder guards,railings) or safely located entrance hatches?	YesNo	Yes
2	Are air vents present?	YesNoLeadin	Yes
2.01	Air Vents: Turned downward or covered from rain and dust?	YesNo	Yes
2.02	Air Vents: Terminated at a minimum of 24 inches above the surface of a storage tank roof if the tank is a buried structure?	YesNo	Yes
2.03	Air Vents: Screened with #14 non-corrodible mesh screen?	YesNo	Yes
3	Are access openings present?	YesNoLeadin	Yes
3.01	Access opening covers at least 4 inches above the tank roof surface or a minimum of 18 inches above any earthen cover?	YesNo	Yes
3.02	Access openings: Is the access of the shoe box type with a minimum of a 2 inch overlap?	YesNo	Yes
3.03	Access openings: Is the lid properly gasketed?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
4	Are outside access hatches locked?	YesNo	Yes
5	Are there any roof or wall penetrations that are not sealed? (ie a water level indicator cable, holes, etc.)	YesNo	No
6	Are overflow pipes present? (IF COMBINED WITH DRAIN LINE INDICATE IN NOTES. DO NOT ANSWER QUESTIONS 7 AND 8)	YesNoLeadin	Yes
6.01	Overflow pipes: Terminated 12 to 24 inches above the ground?	YesNo	Yes
6.02	Overflow pipes: Screened with #4 mesh non-corrodible screen?	YesNo	Yes
6.03	Overflow pipes: Directly connected to a sanitary sewer?	YesNo	No
7	If a drain line is present, does it discharge through a physical air gap of at least 2 pipe diameters? (IF COMBINED WITH OVERFLOW DO NOT ANSWER)	YesNo	Yes

## Storage / Gravity

### **Maintenance:**

1	Are there cracks in the walls or covers of the storage tanks? (ANSWER ONLY ONCE IN THIS SECTION)	YesNoLeadin	None
1.01	Does the tank show evidence of mild deterioration or spalling? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.02	Does the tank exterior show evidence of moderate deterioration or spalling? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.03	Does the tank show evidence of water leakage such as water marks or stains? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.04	Is the tank leaking? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.05	Is there evidence of possible water intrusion into the tank through cracks or other openings? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.06	Does the reservoir have a significant opening that would allow animals or debris to enter the tank? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
2	Is the storage structure interior coating or liner peeling or cracked?	YesNo	No

## Storage / Clear-Wells

### **Design:**

1	What is the name of this storage facility?	Text	None
2	What is the total capacity for this storage facility in gallons? (DO NOT USE COMAS IN NUMERIC ANSWER)	Numeric	None
3	Is the area surrounding the ground-level storage structure graded in a manner that will prevent surface water from standing within 50 feet of it?	YesNo	Yes
4	Does the storage tank roof cover show evidence of ponding with deterioration?	YesNo	Yes

## Storage / Clear-Wells

### **Components:**

1	Does the water storage tank have a safe access (such as ladders for tanks in excess of 20 feet, ladder guards,railings) or safely located entrance hatches?	YesNo	Yes
2	Are air vents present?	YesNoLeadin	Yes
2.01	Air Vents: Turned downward or covered from rain and dust?	YesNo	Yes
2.02	Air Vents: Terminated at a minimum of 24 inches above the surface of a storage tank roof if the tank is a buried structure?	YesNo	Yes
2.03	Air Vents: Screened with #14 non-corrodible mesh screen with a larger gauge protection screen?	YesNo	Yes

QuestionNumber	Question	Response Type	Correct Response
3	Are access openings present?	YesNoLeadin	Yes
3.01	Access opening covers at least 4 inches above the tank roof surface or a minimum 18 inches above any earthen cover?	YesNo	Yes
3.02	Access openings: Is the access of the shoe box type with a minimum of a 2 inch overlap?	YesNo	Yes
3.03	Access openings: Is the lid properly gasketed?	YesNo	Yes
4	Are outside access hatches locked?	YesNo	Yes
5	Are there any roof or wall penetrations that are not sealed? (ie a water level indicator cable, holes, etc.)	YesNo	No
6	Are overflow pipes present? (IF COMBINED WITH DRAIN LINE INDICATE IN NOTES. DO NOT ANSWER QUESTIONS 7 AND 8)	YesNoLeadin	Yes
6.01	Overflow pipes: Terminated 12 to 24 inches above the ground?	YesNo	Yes
6.02	Overflow pipes: Screened with #4 mesh non-corrodible screen?	YesNo	Yes
6.03	Overflow pipes: Directly connected to a sanitary sewer?	YesNo	No
7	If a drain line is present, does it discharge through a physical air gap of at least 2 pipe diameters? (IF COMBINED WITH OVERFLOW DO NOT ANSWER)	YesNo	Yes

### Storage / Clear-Wells

#### **Maintenance:**

1	Are there cracks in the walls or covers of the storage tanks? (ANSWER ONLY ONCE IN THIS SECTION)	YesNoLeadin	None
1.01	Does the tank show evidence of mild deterioration or spalling? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.02	Does the tank exterior show evidence of moderate deterioration or spalling? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.03	Does the tank show evidence of water leakage such as water marks or stains? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.04	Is the tank leaking? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.05	Is there evidence of possible water intrusion into the tank through cracks or other openings? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
1.06	Does the reservoir have a significant opening that would allow animals or debris to enter the tank? (ANSWER ONLY ONCE IN THIS SECTION)	YesNo	No
2	Is the storage structure interior coating or liner peeling or cracked?	YesNo	No

### Storage / Hydropneumatic

#### **Design:**

1	Is the hydropneumatic tank(s) located below ground without adequate provisions for drainage, maintenance and flood protection?	YesNo	No
---	--	-------	----

### Distribution / Design

1	Do all water mains (installed after 1995) that provide fire flow have a diameter of at least 8 inches? ( If no new lines have been added after 1995 answer "yes")	YesNo	Yes
2	Is there any asbestos/cement pipe in use in the system?	YesNoLeadin	No
2.1	When was last asbestos analysis performed?	Date	None
3	Do all materials used in the system meet NSF 61 standards?	YesNo	Yes

**Distribution / Pressure/Flow**

1	Are all areas of the system capable of providing sufficient water during maximum hourly demand conditions to maintain a minimum pressure of 20 psi within the system measured at all points of connections during normal system operation?	YesNo	Yes
2	Was the system constructed or new portions added after January 1, 2007.	YesNoLeadin	None
2.01	Does the system maintain at all points of connection the following pressures: (a) 20 psi during conditions of fire flow and fire demand experienced during peak day demand; (b) 30 psi during peak instantaneous demand; and (c) 40 psi during peak day deman	YesNo	Yes

**Distribution / Air & Vacuum Release Valves**

1	Are air release valves used in the system?	YesNoLeadin	None
1.01	Is the vent line properly screened (#14 mesh) and down turned?	YesNo	Yes
1.02	If located in a chamber, does the discharge piping on air relief valve terminates more than 12 inches above grade or more than one foot above the pipe where the chamber is not subject to flooding?  Ors extend a proper distance above ground and flood lev	YesNo	Yes
1.03	Does the valve chamber lack a drain, adequate sump, or show evidence of flooding?	YesNo	No
1.04	Does the valve chamber show evidence of flooding? Note: answer either 1.04 or 1.05 but not both.	YesNo	No
1.05	Is the chamber flooded at the time of the inspection? Note: answer either 1.04 or 1.05 but not both.	YesNo	No

**Distribution / Cross-Connections**

1	Does any portion of the distribution system cross under any surface water body?	YesNoLeadin	None
1.01	Were all the following precautions taken? A min. of 2 ft of cover over the pipe; and if the crossing is greater than 15 ft: special construction with restrained joints; valves at each side for pipeline isolation; and permanent taps to allow leakage testi	YesNo	Yes
2	Does the water system have a program to control the use of fire hydrants?	YesNo	Yes
3	Are blow offs or air relief valves directly to a sewer or do not have a proper air gap or do they exit below flood level in ditches or streams?	YesNo	No

**Distribution / Disinfection**

1	Do your water facility disinfection procedures meet the AWWA C 651 (Water Mains), 652 (Water Storage Facilities) Standards for disinfection for new facilities and O&M including seasonal operation where applicable?	YesNo	Yes
2	Do you practice "batch" disinfection?	YesNoLeadin	No