State of Utah
GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF DRINKING WATER
Kenneth H. Bousfield, P.E.
Director

June 29, 2010

Fred Smolka, Manager
Emigration Improvement District
P.O. Box 58945
Salt Lake City, Utah 84158

Dear Fred:

Subject: Drinking Water System Sanitary Survey Results, Inventory and Deficiency Reports, System #18143

My thanks to you and Larry for your kind assistance in conducting the field work for this survey on May 20, 2010, and for responding to my follow up questions. A copy of the entire report is enclosed for your review. Also enclosed is a copy of our inventory report listing the major drinking water system components together with a deficiency report listing those elements of the drinking water system not in compliance with the Drinking Water Rules.

The deficiency report has four items, one listing those uncorrected deficiencies from the previous survey, one assigning 2 demerit points for a missing heavy gauge backup screen on an air vent at the Wildflower Reservoir, one giving 10 credit points for your Emergency Response Plan, and the last assigning 1 demerit point for the lack of a smooth nosed sampling tap at Well #1. These points may be removed upon your written notice that the corrections have been made. Please respond to the deficiency report within 30 days to inform us of your efforts to correct the deficiencies.

If you have any questions concerning the survey and associated reports please contact me at 801-536-0092 or Ying Ying Macauley, Engineering Manager at 801-536-4188.

Regards,

Michael B. Georgeson, P.E.
Environmental Engineer

Enclosures: Survey Report
Inventory Report
Deficiency Report

cc: Megan Ferguson, Salt Lake Valley Health Dept., 788 E Woodoak Lane #104, Murray, UT 84107

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Sanitary Survey - Deficiency Report

PWS Number: UTAH18143 **Total Demerit Points:** -7 **Survey Date:** 6/28/2010

Survey Name: EMIGRATION IMPROVEMENT DISTRICT 2010 **Surveyor Name:** Michael Georgeson

Sanitary Survey Category:

SDWIS Severity Code: Recommendation

General / Background Info / Previous Survey Info

Have all deficiencies noted during previous survey been corrected?

Answer Recorded No

Comments: **CCC info to be resubmitted, Well #1 no smooth nose sampling tap, spill containment missing**

Notes:

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description:

Sanitary Survey Category: FW

SDWIS Severity Code: Significant Deficiency

Storage / ST002-WILDFLOWER RESERVOIR - (Active) / Components

Air Vents: Screened with #14 non-corrodible mesh screen with a larger guage protection screen (e.g., #4)?

Answer Recorded No

Comments: R309-545-15(6) & (7) **R309-545-15(6) & (7) states the vent shall be screened with #14 mesh screen protected by an additional heavy guage screen. 2 demerit points. This deficiency should be corrected within 30 days.**

Notes: There is a #14 mesh screen but no backup protector

Demerit Points: 2

Days to Correct Deficiency: 30

SDWIS Deficiency Description: V007 STORAGE FACILITY VENT NOT PROPERLY SCREENED

Sanitary Survey Category: SM

SDWIS Severity Code: Recommendation

Management / Emergency Response

Does your system have a written Emergency Response Plan?

Answer Recorded Yes

Comments: R309-150-10(2) **A written Emergency Response Plan helps to protect the quality and quantity of water available to consumers. R309-150-10(2) allows 10 credit points to be issued.**

Notes:

Demerit Points: -10

Days to Correct Deficiency: 0

SDWIS Deficiency Description: M001 CURRENT EMERGENCY RESPONSE PROGRAM

Sanitary Survey Category: SO

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / WS001-WELL 1 - (Active) / Pumps

Pump discharge piping: a smooth-nosed sampling tap?

Answer Recorded No

Comments: R309-515-6(12)(e)(iv) **R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with (in order of placement from the wellhead) a smooth nosed sampling tap, a check valve, apressure guage, a means of measuring flow and a shutoff valve. 1 demerit point per item missing. This deficiency should be corrected within 90 days.**

Notes: A sampling tap is present but not smooth nosed

Demerit Points: 1

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S023 NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE PIPING

Water System Inventory Report

System Name: EMIGRATION IMPROVEMENT DISTRICT 2010
PWS Number: UTAH18143
System Status:
Primary Water Source:
Population Served: 550
Seasonal Operation Start (Month/Day): 1/1
Seasonal Operation End (Month/Day): 12/31

PWS Type: C - Community
Inspector Name: Michael Georgeson
Survey Date: 05/20/2010
Reson for the Visit: SNSV - Sanitary Survey
Next Inspection Due Dt:
Last Sanitary Survey Dt 4/30/2003

Administrative Contact:
FRED SMOLKA
PO BOX 58945
SALT LAKE CITY UT - Utah 84158

Owner Contact:
Fred Smolka
PO BOX 58945
SALT LAKE CITY UT - Utah 84158

Designated Operator:

Component	Type	Reference ID	Name	Status	Water Type	Capacity	Depth (ft)
Sources							
	Wells						
		WS001	WELL 1	A - Active	GW - Ground Water		
		WS002	WELL 2	A - Active	GW - Ground Water		
		WS003	BRIGHAM FORK WELL	A - Active	GW - Ground Water		
Treatment							
	Treatment						
		TP001	BRIGHAM FORK CHLORINATOR	A - Active	GW - Ground Water		
			DISINFECTION	*GASEOUS CHLORINATION, POST*			
		TP002	WELL 2 CHLORINATOR	A - Active	GW - Ground Water		
			DISINFECTION	*GASEOUS CHLORINATION, POST*			
Distribution							
	Distribution						
		DS001	UTAH18143 DISTRIBUTION SYSTEM	A - Active	GW - Ground Water		
Storage							

Component	Type	Reference ID	Name	Status	Water Type	Capacity	Depth (ft)
	Gravity						
		ST001	EMIGRATION / OAK RESERVOIR	A - Active	GW - Ground Water	355000	
		ST002	WILDFLOWER RESERVOIR	A - Active	GW - Ground Water	1000000	

Sanitary Survey - Survey Responses

PWS Number: UTAH18143 **Survey ID:** 65 **Survey Date:** 6/28/2010

Survey Name: EMIGRATION IMPROVEMENT DISTRICT 2010 **User Name:** Michael Georgeson

Question Number

General / Background Info

Name/Location:

1 Name of public water system: EMIGRATION IMPROVEMENT DISTRICT

2 PWS number: UTAH18143

3 Physical address: Emigration Canyon

4 County: Salt Lake Co.

5 Local Health Department

- ☐ Bear River HD
- ☐ Central Utah HD
- ☐ Davis County HD
- ☑ Salt Lake County HD
- ☐ Southeast Utah HD
- ☐ Southwest Utah HD
- ☐ Summitt County HD
- ☐ Tooele County HD

General / Background Info

Classification:

2 What is the high peak daily demand (MGD?):

Notes: 0.835 MGD

3 What is the low peak daily demand (MGD?):

Notes: 0.31 MGD

4 SDWA classification of system

- ☑ C - Community
- ☐ NC - Non Community transient
- ☐ NP - Non Public
- ☐ NTNC - Non Transient Non Co

5.01 Number of residential connections: 223

5.02 Number of commercial and industrial connections. 1

Question Number		
5.03	Number of other connections (agricultural).	0
6	Residential population:	550
9	Wholesale:	0
10	**Seasonal operation?**	☐ Yes ☑ No ☐ NA ☐ Unknown
10.01	Numeric Month of opening.	1
10.02	Numeric Day of opening.	1
10.03	Numeric Month of closing.	12
10.04	Numeric Day of closing.	31
11	**Purchase water?**	☐ Yes ☑ No ☐ NA ☐ Unknown
12	**Sell water?**	☐ Yes ☑ No ☐ NA ☐ Unknown

General / Background Info

Owner:

1	Owner type:	☐ F - Federal ☑ L - Local ☐ M - Mixed ☐ N - Native American ☐ P - Private ☐ S - State Government
2	Legal ownership by (name or entity)	Emigration Improvement District
3	Principal Executive or CEO, Last Name	Smolka

Question Number		
4	Principal Executive or CEO, First Name	Fred
5	Owner's address	PO BOX 58945
6	Owner's address - City	SALT LAKE CITY
7	Owner's address - State	☑ UT - Utah ☐ AZ - Arizona ☐ CA - California ☐ CO - Colorado ☐ ID - Idaho ☐ NV - Nevada ☐ WY - Wyoming
8	Owner's address - Zip code	84158

General / Background Info

Staff:

1	System Manager's Last name	SMOLKA
2	System Manager's First name	FRED
3	System Manager's address	PO BOX 58945
4	System Manager's address - City	SALT LAKE CITY
5	System Manager's address - State	☑ UT - Utah ☐ AZ - Arizona ☐ CA - California ☐ CO - Colorado ☐ ID - Idaho ☐ NV - Nevada ☐ WY - Wyoming
6	System Manager's address - Zip code	84158
7	System Manager's telephone	801-582-6176
	Notes: Cell phone 801-580-7770	
8	System Manager's email address	fsmolka@mtnstream.com

Question Number		
9	Main Operator's Last name	HALL
10	Main Operator's First name	LARRY A
11	Main Operator's address	6162 SCHOONER LN
12	Main Operator's address - City	STANSBURY PARK
13	Main Operator's address - State	☑ UT - Utah ☐ ID - Idaho ☐ AZ - Arizona ☐ NV - Nevada ☐ CA - California ☐ WY - Wyoming ☐ CO - Colorado
14	Main Operator's address - Zip code	84074
15	Main Operator's telephone	801-209-6382
16	Main Operator's email address	larryh@aquaenviron.com
17	Main Operator's Certification Level	D4
18	Emergency phone number.	435-299-1327
19	System FAX number.	801-582-6171

General / Background Info

Previous Survey Info:

1	Date of last sanitary survey:	4/30/2003
2	Last survey conducted by - name	Randy Williams

Question Number		
3.01	Have all deficiencies noted during previous survey been corrected?	☐ Yes ☑ No ☐ NA ☐ Unknown
3.02	If no, list item number for remaining deficiencies	Items M006, M007, S023, TG59

General / SDWIS Site Visit Info

1	Reason for the visit.	☑ SNSV - Sanitary Survey ☐ TRNG - Training ☐ SSVF - Sanitary Survey Follow- ☐ LABC - Laboratory certificat ☐ SHAZ - Sanitary Hazards Invest ☐ EMRG - Emergency assistan ☐ TRTP - Water Treatment Plant ☐ ENGR - Engineering
2	Questions sent to water system on:	05/10/2010
3	Notify Local Health Department.	05/10/2010
4	Date of the survey	05/20/2010
	Notes: Follow up questions on 6/28/2010	
5	Survey Status	☑ C - Completed ☐ P - Planned
6	Source Evaluation:	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☑ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☐ N - No deficiencies/recommend
7	Treatment system evaluation:	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☑ N - No deficiencies/recommend
8	Distribution system evaluatuion	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☑ N - No deficiencies/recommend
9	Finished water Storage evaluation:	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☑ N - No deficiencies/recommend
10	Pump facility evaluation:	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☑ N - No deficiencies/recommend
11	Monitoring and reporting evaluation:	☐ S - Significant deficiency(ies) ☑ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☐ N - No deficiencies/recommend

Question Number		
12	System management and operations:	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☑ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☐ N - No deficiencies/recommend
13	Operator compliance with state requirements:	☐ S - Significant deficiency(ies) ☑ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☐ N - No deficiencies/recommend
14	Security requirements:	☐ S - Significant deficiency(ies) ☐ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☑ N - No deficiencies/recommend
15	Financial requirements:	☐ S - Significant deficiency(ies) ☑ X - Not evaluated ☐ M - Minor Deficiency(ies) ☐ R - Recommendation(s) made ☐ N - No deficiencies/recommend
16	Last name of surveyor:	Georgeson
	Notes: Accompanied by Megan Ferguson, SL V HD	
17	First name of surveyor.	Michael
18	Surveyor's organization	Division of Drinking Water
19	Surveyor phone number	801-536-0092
20	Surveyor e-mail	mgeorgeson@utah.gov
21	Water system representatives present during the survey:	Fred Smolka & Larry Hall
22	Official notification of report results sent to water system.	06/29/2010

Flagged for Follow-up

Regulations / Plans/Records

1	Does the (TCR) sample site plan meet the minimum requirements? (Answer no, if no plan is present)	☑ Yes ☐ No ☐ NA ☐ Unknown

Management / General

1	**Does the system haul water?**	☐ Yes ☑ No ☐ NA ☐ Unknown
2	Is there a procedure in place to respond immediately to customer complaints?	☑ Yes ☐ No ☐ NA ☐ Unknown

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)**	☐ Yes ☑ No ☐ NA ☐ Unknown
2	**The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations)**	☐ Yes ☑ No ☐ NA ☐ Unknown
3	**Has there been any recent modifications to the water system?**	☐ Yes ☑ No ☐ NA ☐ Unknown
4	Are there any undocumented water system facilities? (i.e. tanks, pump stations, treatment facilities, etc.)	☐ Yes ☑ No ☐ NA ☐ Unknown

Management / Emergency Response

1	**Does your system serve less than 3300 in population?**	☑ Yes ☐ No ☐ NA ☐ Unknown
1.01	Does your system have a written Emergency Response Plan?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.02	Has your Emergency Response Plan been updated within the last 3 years?	☑ Yes ☐ No ☐ NA ☐ Unknown
2	**Does your system serve a population of 3300 or greater?**	☐ Yes ☑ No ☐ NA ☐ Unknown

Management / Cross-Connections

1	Are there any unprotected connections between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system?	☐ Yes ☑ No ☐ NA ☐ Unknown
2.01	Legally adopted authority statement?	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up	Notes: Plan to adopt a revised ordinance during July 2010 Board meeting	
2.02	Documentation of annual public awareness and/or employee training?	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up	Notes: Need to create a formal file	
2.03	Documentation of personnel trained to manage the program?	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up	Notes: Need to create a more formal file	
2.04	Records of hazards found, protection required and installed, enforcement actions, assembly testing etc.?	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up	Notes: Need to create a formal file	
2.05	Documentation of on-going program enforcement? (ie records of periodic hazard assessments, annual test report, updated assembly inventory, etc)	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up	Notes: Need to create a formal file	

Management / Staffing

1	Is the main operator properly certified at the level required for the system? (If no certified operator is required answer NA)	☑ Yes ☐ No ☐ NA ☐ Unknown
	Notes: D4	
2	If there is a certified operator, are they available within 1 hour travel time at all times as required by R309-300 (Operator Certification Rule)? (If no certified operator is required answer NA)	☑ Yes ☐ No ☐ NA ☐ Unknown

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)	☑ Yes ☐ No ☐ NA
	Notes: Fred Smolka	☐ Unknown
2	**Is their phone number and address different from the water system?**	☐ Yes ☑ No ☐ NA ☐ Unknown

Question Number		
3	CWS & NTNC systems: Is there a current copy of the DWSP Plan for each source on the premises of the water system? (Note for TNC system: they should have a copy of the DWSP for each "new" source (plans submitted after July 26, 1993), and/or a copy of their source water assessment for each "existing" source (Plans and specs submitted before July 26, 1993).	☑ Yes ☐ No ☐ NA ☐ Unknown
4.01	Is the inventory of potential contamination sources current?	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up		
4.02	Are ongoing land management strategies documented in the recordkeeping section? The recordkeeping section must include copies of ordinances, codes, permits, public education programs, minutes of meetings, etc.	☑ Yes ☐ No ☐ NA ☐ Unknown
Flagged for Follow-up		
5	All systems: Are there any " new" sources (seen definition in 3.00) for which a Preliminary Evaluation Report has not been submitted?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	For CWS or NTNC systems: Are there any "existing" sources for which a DWSP Plan has not been submitted?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	All systems: Has there been reconstruction or redevelopment of any well for which a revised DWSP Plan has not been submitted?	☐ Yes ☑ No ☐ NA ☐ Unknown
8	All systems: Is the system out of compliance with any other source protection reqiurements? This may include unsubmitted plans or failure to address deficiencies in submitted plans or PERs	☐ Yes ☑ No ☐ NA
Flagged for Follow-up		☐ Unknown

Sources / General

General:

1	Are there any undocumented source(s) physically connected to the drinking water system? (If source is not on system inventory mark "yes")	☐ Yes ☑ No ☐ NA ☐ Unknown

Sources / Groundwater

WS001-WELL 1 - (Active) / 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)**	☐ Yes ☑ No ☐ NA ☐ Unknown
2	Is the sanitary seal properly installed and maintained? (Note: If this is a pitless adapter answer NA)	☑ Yes ☐ No ☐ NA ☐ Unknown
3	**Is there a pitless adapter?**	☐ Yes ☑ No ☐ NA ☐ Unknown

Question Number		
4	**Is the well casing vented?**	☑ Yes ☐ No ☐ NA ☐ Unknown
4.01	Is the open end of the vent screened with a #14 mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
4.02	Is the open end of the vent down-turned?	☑ Yes ☐ No ☐ NA ☐ Unknown
4.03	Is the open end of the vent terminated with an appropriate air gap above the ground?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	**Is there a pump to waste line from the well?**	☑ Yes ☐ No ☐ NA ☐ Unknown
5.01	Does the pump to waste line discharge through an approved air gap?	☑ Yes ☐ No ☐ NA ☐ Unknown
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
5.03	Does the pump to waste line discharge to a sanitary sewer or storm sewer without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is there a means to measure drawdown?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured against unauthorized personnel?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

WS001-WELL 1 - (Active) / Pumps:

1	Where does this pumping station pump from and to?	Well to distribution piping
2	What type of pump(s) are at this pumping station?	☐ CF - Centrifugal ☐ HP - Hand Pump ☐ JT - Jet ☐ PD - Positive Displacement ☐ SC - Screw ☑ SU - Submersible ☐ VT - Vertical Turbine
3	Is the building and equipment protected from flooding?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	70
5	Are cross-connections present in the well discharge piping?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is adequate drainage provided?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	☐ Yes ☑ No ☐ NA ☐ Unknown
8.01	Pump discharge piping: a smooth-nosed sampling tap? Notes: A sampling tap is present but not smooth nosed	☐ Yes ☑ No ☐ NA ☐ Unknown
8.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.03	Pump discharge piping: pressure gauge?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.04	Pump discharge piping: flow meter?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.05	Pump discharge piping: isolation gate valves? Notes: Instead of gate valves they use ball valves	☑ Yes ☐ No ☐ NA ☐ Unknown
9	**Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?**	☑ Yes ☐ No ☐ NA ☐ Unknown
9.01	Is the discharge line from the air release valve properly downturned?	☑ Yes ☐ No ☐ NA ☐ Unknown
9.02	Is the open end of the air release valve screened with #14 mesh corrosion resistant mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
9.03	Is the open end of the air release valve terminated an appropriate air gap (minimum of 6 inches) above the ground or pumphouse floor?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
10	Are the correct types of lubricant used (ANSI/NSF 60)?	☐ Yes ☐ No ☑ NA ☐ Unknown
11	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown

Sources / Groundwater

WS002-WELL 2 - (Active) / 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)**	☐ Yes ☑ No ☐ NA ☐ Unknown
2	Is the sanitary seal properly installed and maintained? (Note: If this is a pitless adapter answer NA)	☑ Yes ☐ No ☐ NA ☐ Unknown
3	**Is there a pitless adapter?**	☐ Yes ☑ No ☐ NA ☐ Unknown
4	**Is the well casing vented?**	☑ Yes ☐ No ☐ NA ☐ Unknown
4.01	Is the open end of the vent screened with a #14 mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
4.02	Is the open end of the vent down-turned? Notes: the vent line is turned about 45 deg from vertical	☑ Yes ☐ No ☐ NA ☐ Unknown
4.03	Is the open end of the vent terminated with an appropriate air gap above the ground?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	**Is there a pump to waste line from the well?**	☑ Yes ☐ No ☐ NA ☐ Unknown
5.01	Does the pump to waste line discharge through an approved air gap?	☑ Yes ☐ No ☐ NA ☐ Unknown
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
5.03	Does the pump to waste line discharge to a sanitary sewer or storm sewer without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown

6	Is there a means to measure drawdown?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured against unauthorized personnel?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

WS002-WELL 2 - (Active) / Pumps:

1	Where does this pumping station pump from and to?	From the well to the distribution piping
2	What type of pump(s) are at this pumping station?	☐ CF - Centrifugal ☐ HP - Hand Pump ☐ JT - Jet ☐ PD - Positive Displacement ☐ SC - Screw ☑ SU - Submersible ☐ VT - Vertical Turbine
3	Is the building and equipment protected from flooding?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	250
5	Are cross-connections present in the well discharge piping?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is adequate drainage provided?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station? Notes: Storing hypochlorite	☐ Yes ☑ No ☐ NA ☐ Unknown
8.01	Pump discharge piping: a smooth-nosed sampling tap?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.03	Pump discharge piping: pressure gauge?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.04	Pump discharge piping: flow meter?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
8.05	Pump discharge piping: isolation gate valves?	☑ Yes ☐ No ☐ NA ☐ Unknown
9	**Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?**	☑ Yes ☐ No ☐ NA ☐ Unknown
9.01	Is the discharge line from the air release valve properly downturned?	☑ Yes ☐ No ☐ NA ☐ Unknown
9.02	Is the open end of the air release valve screened with #14 mesh corrosion resistant mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
9.03	Is the open end of the air release valve terminated an appropriate air gap (minimum of 6 inches) above the ground or pumphouse floor?	☑ Yes ☐ No ☐ NA ☐ Unknown
10	Are the correct types of lubricant used (ANSI/NSF 60)?	☐ Yes ☐ No ☑ NA ☐ Unknown
11	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown

Sources / Groundwater

WS003-BRIGHAM FORK WELL - (Active) / 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)**	☐ Yes ☑ No ☐ NA ☐ Unknown
2	Is the sanitary seal properly installed and maintained? (Note: If this is a pitless adapter answer NA)	☑ Yes ☐ No ☐ NA ☐ Unknown
3	**Is there a pitless adapter?**	☐ Yes ☑ No ☐ NA ☐ Unknown
4	**Is the well casing vented?**	☑ Yes ☐ No ☐ NA ☐ Unknown
4.01	Is the open end of the vent screened with a #14 mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
4.02	Is the open end of the vent down-turned?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
4.03	Is the open end of the vent terminated with an appropriate air gap above the ground?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	**Is there a pump to waste line from the well?**	☑ Yes ☐ No ☐ NA ☐ Unknown
5.01	Does the pump to waste line discharge through an approved air gap?	☑ Yes ☐ No ☐ NA ☐ Unknown
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen? Notes: It is equipped with a #14 mesh screen that meets the intent of the rule.	☑ Yes ☐ No ☐ NA ☐ Unknown
5.03	Does the pump to waste line discharge to a sanitary sewer or storm sewer without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is there a means to measure drawdown?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured against unauthorized personnel?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

WS003-BRIGHAM FORK WELL - (Active) / Pumps:

1	Where does this pumping station pump from and to?	From well to distribution piping
2	What type of pump(s) are at this pumping station?	☐ CF - Centrifugal ☐ HP - Hand Pump ☐ JT - Jet ☐ PD - Positive Displacement ☐ SC - Screw ☑ SU - Submersible ☐ VT - Vertical Turbine
3	Is the building and equipment protected from flooding?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	270
5	Are cross-connections present in the well discharge piping?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is adequate drainage provided?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
7	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station? Notes: Sodium Hypochlorite is stored within the well house	☐ Yes ☑ No ☐ NA ☐ Unknown
8.01	Pump discharge piping: a smooth-nosed sampling tap?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.03	Pump discharge piping: pressure gauge?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.04	Pump discharge piping: flow meter?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.05	Pump discharge piping: isolation gate valves?	☑ Yes ☐ No ☐ NA ☐ Unknown
9	**Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?**	☑ Yes ☐ No ☐ NA ☐ Unknown
9.01	Is the discharge line from the air release valve properly downturned?	☑ Yes ☐ No ☐ NA ☐ Unknown
9.02	Is the open end of the air release valve screened with #14 mesh corrosion resistant mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
9.03	Is the open end of the air release valve terminated an appropriate air gap (minimum of 6 inches) above the ground or pumphouse floor?	☑ Yes ☐ No ☐ NA ☐ Unknown
10	Are the correct types of lubricant used (ANSI/NSF 60)?	☐ Yes ☐ No ☑ NA ☐ Unknown
11	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown

TP001-BRIGHAM FORK CHLORINATOR - (Active) / General

General:

1	**Does the treatment plant have any treatment processes other than disinfection or fluofidation?**	☐ Yes ☑ No ☐ NA ☐ Unknown

TP001-BRIGHAM FORK CHLORINATOR - (Active) / General

Chemical Use:

1	**Are liquid chemicals used?**	☑ Yes ☐ No ☐ NA ☐ Unknown
1.06	Is a means provided to measure the solution level in the day tank or storage tank?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.09	Are spare parts available for all chemical feeders?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.1	Are incompatible chemicals stored separately?	☐ Yes ☐ No ☑ NA ☐ Unknown
1.11	Do daily operating records reflect chemical dosages and total quantities used?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.12	Are all chemical feeders properly verified for accuracy? Notes: I suggest more frequent unless testing shows consistency	☑ Yes ☐ No ☐ NA ☐ Unknown
1.14	Are all chemicals and water contact materials approved by an ANSI/NSF accredited organization? Notes: Use T-Chlor	☐ Yes ☐ No ☐ NA ☑ Unknown

TP001-BRIGHAM FORK CHLORINATOR - (Active) / General

Waste Disposal:

1	How are process and plant wastes discharged?	No waste streams

TP001-BRIGHAM FORK CHLORINATOR - (Active) / Chlorination

General:

1	During the past year, has the disinfection process operated uninterrupted while water was being produced? If no, describe in comments. Notes: For the time it took to replace a feed pump	☑ Yes ☐ No ☐ NA ☐ Unknown
2	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?	☐ Yes ☑ No ☐ NA ☐ Unknown
3	Are spare parts available to replace parts subject to wear and breakage?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
4	Is there a means to measure the volume of water treated?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	What disinfectant residual is maintained at the entry point of the distribution system?	0.67 ppm
6	Is at least a trace of residual maintained at all points in the distribution system?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Are chlorine residuals tested at least three times a week in the distribution system?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	Are there an adequate number of disinfection residual sample sites and do they provide a representative sample of system conditions?	☑ Yes ☐ No ☐ NA ☐ Unknown

TP002-WELL 2 CHLORINATOR - (Active) / General

General:

1	**Does the treatment plant have any treatment processes other than disinfection or fluoridation?**	☐ Yes ☑ No ☐ NA ☐ Unknown

TP002-WELL 2 CHLORINATOR - (Active) / General

Chemical Use:

1	**Are liquid chemicals used?**	☑ Yes ☐ No ☐ NA ☐ Unknown
1.03	If a motor-driven transfer pump is provided, is a liquid level limit switch and an over-flow from the day tank operable? Notes: Feed pump only used. No transfer pumps	☐ Yes ☐ No ☑ NA ☐ Unknown
1.06	Is a means provided to measure the solution level in the day tank or storage tank?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.09	Are spare parts available for all chemical feeders?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.11	Do daily operating records reflect chemical dosages and total quantities used?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.12	Are all chemical feeders properly verified for accuracy? Notes: Should be more freequent unless long term testing indicates consistency	☑ Yes ☐ No ☐ NA ☐ Unknown

1.14	Are all chemicals and water contact materials approved by an ANSI/NSF accredited organization? Notes: Use T-Chlor	☐ Yes ☐ No ☐ NA ☑ Unknown

TP002-WELL 2 CHLORINATOR - (Active) / General

Waste Disposal:

1	How are process and plant wastes discharged?	No waste streams

TP002-WELL 2 CHLORINATOR - (Active) / Chlorination

General:

1	During the past year, has the disinfection process operated uninterrupted while water was being produced? If no, describe in comments. Notes: For a short period of time to change a feed pump	☑ Yes ☐ No ☐ NA ☐ Unknown
2	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?	☐ Yes ☑ No ☐ NA ☐ Unknown
3	Are spare parts available to replace parts subject to wear and breakage?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	Is there a means to measure the volume of water treated?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	What disinfectant residual is maintained at the entry point of the distribution system?	0.67 ppm
6	Is at least a trace of residual maintained at all points in the distribution system?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Are chlorine residuals tested at least three times a week in the distribution system?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	Are there an adequate number of disinfection residual sample sites and do they provide a representative sample of system conditions?	☑ Yes ☐ No ☐ NA ☐ Unknown

Storage / ST001-EMIGRATION / OAK RESERVOIR - (Active)

Design:

1	What is the name of this storage facility?	Oak Reservoir

2	What is the total capacity for this storage facility in gallons?	355000
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?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	Is the storage reservoir cover sloped so that water will drain?	☐ Yes ☐ No ☐ NA ☑ Unknown

Storage / ST001-EMIGRATION / OAK RESERVOIR - (Active)

Components:

1	Does the water storage structure have ladders, ladder guards, balcony railings, and safely located entrance hatches provided where applicable?	☐ Yes ☐ No ☑ NA ☐ Unknown
2	**Are air vents present?**	☑ Yes ☐ No ☐ NA ☐ Unknown
2.01	Air Vents: Turned downward or covered from rain and dust?	☑ Yes ☐ No ☐ NA ☐ Unknown
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 ?	☑ Yes ☐ No ☐ NA ☐ Unknown
2.03	Air Vents: Screened with #14 non-corrodible mesh screen with a larger guage protection screen (e.g., #4)? Notes: Some of the vent screens need to be repaired. The screen has separated from the vent pipe	☑ Yes ☐ No ☐ NA ☐ Unknown
3	**Are access openings present?**	☑ Yes ☐ No ☐ NA ☐ Unknown
3.01	Access opening covers at least 4 inches above the tank roof surface (18 inches above any earthen cover)?	☑ Yes ☐ No ☐ NA ☐ Unknown
3.02	Access openings: Is the access of the shoe box type with a minimum of a 2 inch overlap?	☑ Yes ☐ No ☐ NA ☐ Unknown
3.03	Access openings: Is the lid properly gasketed?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	Are outside access hatches locked?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
5	Are there any roof penetrations that are not sealed? (ie a water level indicator cable)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	**Are overflow pipes present?**	☑ Yes ☐ No ☐ NA ☐ Unknown
6.01	Overflow pipes: Terminated 12 to 24 inches above the ground?	☑ Yes ☐ No ☐ NA ☐ Unknown
6.02	Overflow pipes: Screened with #4 mesh non-corrodible screen? Notes: The screen is a #14 mesh.	☑ Yes ☐ No ☐ NA ☐ Unknown
6.03	Overflow pipes: Directly connected to a storm sewer or sanitary sewer?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	If a drain line is present, is it properly screened with #4 mesh non-corrodible screen? Notes: The screen is a #14 mesh	☑ Yes ☐ No ☐ NA ☐ Unknown
8	If a drain line is present, does it discharge through a physical air gap of at least 2 pipe diameters?	☑ Yes ☐ No ☐ NA ☐ Unknown

Storage / ST001-EMIGRATION / OAK RESERVOIR - (Active)

Maintenance:

1	**Are there cracks in the walls or covers of the storage tanks?**	☐ Yes ☐ No ☐ NA ☑ Unknown
2	Is the storage structure interior coating or liner peeling or cracked?	☐ Yes ☐ No ☐ NA ☑ Unknown

Storage / ST002-WILDFLOWER RESERVOIR - (Active)

Design:

1	What is the name of this storage facility?	Wildflower
2	What is the total capacity for this storage facility in gallons?	1000000
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?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
4	Is the storage reservoir cover sloped so that water will drain? Notes: Tank is completely buried, cannot determine roof slope	☐ Yes ☐ No ☐ NA ☑ Unknown

Storage / ST002-WILDFLOWER RESERVOIR - (Active)

Components:

1	Does the water storage structure have ladders, ladder guards, balcony railings, and safely located entrance hatches provided where applicable?	☐ Yes ☐ No ☑ NA ☐ Unknown
2	**Are air vents present?**	☑ Yes ☐ No ☐ NA ☐ Unknown
2.01	Air Vents: Turned downward or covered from rain and dust?	☑ Yes ☐ No ☐ NA ☐ Unknown
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 ?	☑ Yes ☐ No ☐ NA ☐ Unknown
2.03	Air Vents: Screened with #14 non-corrodible mesh screen with a larger guage protection screen (e.g., #4)? Notes: There is a #14 mesh screen but no backup protector	☐ Yes ☑ No ☐ NA ☐ Unknown
3	**Are access openings present?**	☑ Yes ☐ No ☐ NA ☐ Unknown
3.01	Access opening covers at least 4 inches above the tank roof surface (18 inches above any earthen cover)?	☑ Yes ☐ No ☐ NA ☐ Unknown
3.02	Access openings: Is the access of the shoe box type with a minimum of a 2 inch overlap? Notes: The cover is split with a gasketed channel under the split to collect water	☑ Yes ☐ No ☐ NA ☐ Unknown
3.03	Access openings: Is the lid properly gasketed?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	Are outside access hatches locked?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	Are there any roof penetrations that are not sealed? (ie a water level indicator cable)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	**Are overflow pipes present?**	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
6.01	Overflow pipes: Terminated 12 to 24 inches above the ground?	☑ Yes ☐ No ☐ NA ☐ Unknown
6.02	Overflow pipes: Screened with #4 mesh non-corrodible screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
6.03	Overflow pipes: Directly connected to a storm sewer or sanitary sewer?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	If a drain line is present, is it properly screened with #4 mesh non-corrodible screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	If a drain line is present, does it discharge through a physical air gap of at least 2 pipe diameters?	☑ Yes ☐ No ☐ NA ☐ Unknown

Storage / ST002-WILDFLOWER RESERVOIR - (Active)

Maintenance:

1	**Are there cracks in the walls or covers of the storage tanks?**	☐ Yes ☐ No ☐ NA ☑ Unknown
	Notes: Tank is completely buried	
2	Is the storage structure interior coating or liner peeling or cracked?	☐ Yes ☐ No ☐ NA ☑ Unknown

DS001-UTAH18143 DISTRIBUTION SYSTEM - (Active) / 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")	☑ Yes ☐ No ☐ NA ☐ Unknown
2	**Was asbestos/cement pipe used in the system?**	☐ Yes ☑ No ☐ NA ☐ Unknown

DS001-UTAH18143 DISTRIBUTION SYSTEM - (Active) / Pressure/Flow

1	Is the PWS 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?	☑ Yes ☐ No ☐ NA ☐ Unknown
2	**Was the system constructed or new portions added after January 1, 2007.**	☐ Yes ☑ No ☐ NA ☐ Unknown

DS001-UTAH18143 DISTRIBUTION SYSTEM - (Active) / Air & Vacuum Release Valves

1	**Are air and vacuum release valves used in the system?**	☑ Yes ☐ No ☐ NA ☐ Unknown
1.01	Is the vent line properly screened (#14 mesh) and down turned?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.02	Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?	☑ Yes ☐ No ☐ NA ☐ Unknown

DS001-UTAH18143 DISTRIBUTION SYSTEM - (Active) / Cross-Connections

1	**Does any portion of the distribution system cross under any surface water body?**	☑ Yes ☐ No ☐ NA ☐ Unknown
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 testing.	☑ Yes ☐ No ☐ NA ☐ Unknown
3	Does the water system have a program to control the use of fire hydrants?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	Are blow offs connected to sanitary or storm sewers or do they exit below flood level in ditches or streams?	☐ Yes ☐ No ☑ NA ☐ Unknown

DS001-UTAH18143 DISTRIBUTION SYSTEM - (Active) / 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?	☑ Yes ☐ No ☐ NA ☐ Unknown