Sanitary Survey - Survey Responses

PWS Number: UTAH18143 **Survey ID:** 66 **Survey Date:** 7/30/2015

Survey Name: EMIGRATION ID 2015 NEW **User Name:** John Oakeson

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

5 Local Health Department:: ☐ BEAR RIVER HD ☐ CENTRAL UTAH HD ☐ DAVIS COUNTY HD ☑ SALT LAKE VALLEY HD ☐ SOUTHEAST HD ☐ SOUTHWEST HD ☐ SUMMIT COUNTY HD ☐ TOOELE COUNTY HD

General / Background Info

DDW says WS001 (60 gpm, safe 100); WS002 (250 gpm, safe 200); WS003 (270 gpm, safe 300); WS004 (280 gpm, safe 400);

Classification:

1 Total System - Design Water Production / Treatment Capacity (GPD): (ENTRIES MUST BE IN GALLONS PER DAY. DO NOT USE COMAS WITH NUMERIC ANSWER) 1238400

Notes: The operator is unaware of the total system design water production.

2 What is the high peak daily demand (GPD)? (ENTRIES MUST BE IN GALLONS PER DAY. DO NOT USE COMAS WITH NUMERIC ANSWER) 396,000 ← no commas allowed

Notes: The operator game me a figure of 275 gpm. This was converted to gallons per day.

3 What is the low peak daily demand (GPD)? . (ENTRIES MUST BE IN GALLONS PER DAY. DO NOT USE COMAS WITH NUMERIC ANSWER) 36000

Notes: The operator gave me a figure of 25 gpm. This was converted to gallons per day.

4 SDWA classification of system: ☑ C - Community ☐ NC - Non Community transient ☐ NP - Non Public ☐ NTNC - Non Transient Non Co

5 **Number of service connections:**

Lily, I suggest you call EID and ask again; this is a contentious issue; you should note that 278 is operator's assertion, not your fact-finding

Question Number		
5.01	Number of residential connections: Operator reports in 2015 there are 278 residential connections;	278
5.02	Number of commercial and industrial connections:	2
	Notes: The operator states the commercial connections are the Sun and Moon Café and the Fire Station.	
5.03	Number of Agricultural connections:	0
5.04	Number of Combined connections: (SEPARATE CATEGORY - NOT TOTAL OF ALL OTHER TYPES OF CONNECTIONS)	0
6	**Population**	
6.01	Residential population: Operator estimates 600;	600
6.02	Transient Population:	0
6.03	Non-Transient: Population:	0
6.04	Wholesale Population:	0
7	**Seasonal operation?**	☐ Yes ☑ No ☐ NA ☐ Unknown
7.01	Effective Begin Date: (Will be answered by DDW)	6/1/1977
7.02	Numeric Month of opening:	1
7.03	Numeric Day of opening:	1

Question Number		
7.04	Numeric Month of closing:	12
7.05	Numeric Day of closing:	31
8	**Purchase water?** DDW database shows no water purchase(s) from other PWS;	☐ Yes ☑ No ☐ NA ☐ Unknown
8.01	Name of system purchased from: (IF MORE THAN ONE SYSTEM NAME, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	
8.02	PWS number of system purchased from: (IF MORE THAN ONE SYSTEM NUMBER, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	
8.03	Has this interconnection been approved by DDW?	☐ Yes ☐ No ☐ NA ☐ Unknown
9	**Sell water?** DDW database shows no water sale to other PWS;	☐ Yes ☑ No ☐ NA ☐ Unknown
9.01	Name of system sold to: IF MORE THAN ONE SYSTEM NAME, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	No
9.02	PWS number of system(s) sold to: (IF MORE THAN ONE SYSTEM NUMBER, LIST FIRST SYSTEM IN FIELD AND OTHERS IN NOTES)	

General / Background Info

Owner:

1	Owner type:	☐ F - Federal ☑ L - Local ☐ M - Mixed ☐ N - Native American ☐ P - Private ☐ S - State Government
2	Does the system have someone designated as Legal ownership	☑ Yes ☐ No ☐ NA ☐ Unknown
3	Principal Executive or CEO, Last Name:	~~Emigration Improvement District~~ Hawkes
4	Principal Executive or CEO, First Name:	Eric Hawkes

Question Number		
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
9	Owner's telephone:	[redacted]
10	Owner's email address:	[redacted]

General / Background Info

Staff:

1	System Manager's Last name:	Hawkes
2	System Manager's First name:	Eric
3	System Manager's address:	[redacted]
4	System Manager's address - City:	[redacted]
5	System Manager's address - State:	[redacted] ☐ ID - Idaho ☐ NV - Nevada ☐ WY - Wyoming
6	System Manager's address - Zip code:	84158
7	System Manager's telephone:	801-243-5741

Question Number		
25	Did the surveyor conduct an EXIT INTERVIEW with the system representatives including identifying all significant deficiencies at the conclusion of the survey?	☑ Yes ☐ No ☐ NA ☐ Unknown
26	**Upon completion of the survey, the time/cost elements associated with the survey shall be reported to the Division as follows:**	
26.01	How many hours did the surveyor spend to prepare survey documents prior to field survey? (Round to closest quarter hour)	.5
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)	5
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)	1.5
26.05	How much time did it take to finish the Survey Report? (Round to nearest quarter hour)	2
Flagged for Follow-up 30	**Did you survey multiple water systems?**	☐ Yes ☑ No ☐ NA ☐ Unknown
30.01	If yes, how many?	

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)	☐ Yes ☐ No ☐ NA ☒ Unknown
Flagged for Follow-up	Notes: This was unavailable during the survey. The manager states that the operator Larry Hall, will provide	

I recommend checking "unknown" just so answer is not blank;

Management / General

1	**Does the system haul water?**	☐ Yes ☑ No ☐ NA ☐ Unknown
1.01	Is the water system a community water system?	☑ Yes ☐ No ☐ NA ☐ Unknown
1.02	Has system received DDW approval to haul water?	☐ Yes ☑ No ☐ NA ☐ Unknown

Question Number		
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)	☐ 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)** 278 ERC × 800 GPD = 154 GPM	☐ Yes ☑ No ☐ NA ☐ Unknown
1.01	Does the system meet a minimum of 90% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
1.02	Does the system meet a minimum of 80% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
1.03	Does the system meet a minimum of 70% of the required source capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
1.04	Does the system meet a minimum of 60% of the required source capacity? ((ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
1.05	Does the system meets less than 60% of the required source capacity? ((ANSWER ONLY ONCE IN THIS SECTION)	☐ 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)** (278 ERC × 400 Gal) + (240,000 Gal/Fire) = 0.35 MG	☐ Yes ☑ No ☐ NA ☐ Unknown
2.01	Does the system meet a minimum of 90% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
2.02	Does the system meet a minimum of 80% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
2.03	Does the system meet a minimum of 70% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
2.04	Does the system meet a minimum of 60% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown

DDW concerns: S1002 temp. O.P. expired 10-1-04; WS002 &TP002 may lack approval, see DDW 9-20-95 letter; WS001 &TP001 may lack approval;

Question Number		
2.05	Does the system meet less than 60% of the required storage capacity? (ANSWER ONLY ONCE IN THIS SECTION)	☐ Yes ☐ No ☐ NA ☐ Unknown
3	If the system is a community system that serves 100 or more connections does the system have at least 2 water sources?	☑ Yes ☐ No ☐ NA ☐ Unknown
4	**Has there been any recent modifications to the water system?**	☑ Yes ☐ No ☐ NA ☐ Unknown — In 2013, file #9317 WL/CL2, file #9236, Upper Freeze Creek well WS004
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.) Notes: The letter of approval from DDW to drill the well is on file at the Health Department.	☑ Yes ☐ No ☐ NA ☐ Unknown
4.02	Recent modifications - Briefly describe modifications or undocumented facilities	Upper Freeze Creek Well was added in 2013
5	Local Fire Authority - last name:	Gray
6	Local Fire Authority - first name:	Stewart
7	Local Fire Authority -Address:	[redacted]
8	Local Fire Authority - City:	Salt Lake City
9	Local Fire Authority - State:	☑ Utah ☐ Arizona ☐ California ☐ Colorado ☐ Idaho ☐ Nevada ☐ Wyoming
10	Local Fire Authority - Zip Code:	84119
11	Local Fire Authority - Telephone #:	[redacted]
12	Local Fire Authority - Email address:	

Lili, this should cause 50 IPS pts

Question Number		
2	**Is their phone number and address different from the water system?**	☑ Yes ☐ No ☐ NA ☐ Unknown
2.01	Updated address:	[redacted] 106 W 500 S Suite 101
	Notes: Bountiful UT 84010	
2.02	Updated phone number:	8[redacted]
	Notes: mobile: 801-550-4404	
3	All systems: Does the system have any active sources with disapproved PERs or disapproved DWSPs?	☐ Yes ☑ No ☐ NA ☐ Unknown
4	All systems: Does the system have any active sources with PERs that have not been upgraded to full DWSP plans?	☑ Yes ☐ No ☐ NA ☐ Unknown
	Notes: Verified with the Division of Drinking Water that the Upper Freeze Creek Well WS004 has not been upgraded to a full DWSP.	
5	All systems: Does the system have any new, active sources for which a PER has not been submitted?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	: All systems: Does the system have any existing (old, pre-1993), active sources for which a DWSP Plan has not been submitted?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	All systems: Is the system current on all required updates of source protection plans for active sources?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	All systems: Has the system submitted revised DWSP plan for all active wells that have been reconstructed?	☐ Yes ☐ No ☑ NA ☐ 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

Comment

DDW says to answer "unknown" until DDW determines if WS002 lacks approval; 150 IPS points may be assessed;

Sources / Groundwater

WS001-FREEZE CREEK WELL - (Active) / General:

1	**Is this a seasonal source?**	☐ Yes ☑ No ☐ NA ☐ Unknown
1.02	Numeric month of beginning operation:	

Question Number		
5.01	Does the pump to waste line discharge with a minimum of 12-inch clearance to the flood rim?	☑ 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 recepticle without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is there a means to periodically measure water levels?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured to protect the quality of the well water?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

WS001-FREEZE CREEK WELL - (Active) / Pumps:

1	Where does this pumping station pump from and to?	Well to distribution line
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)?	80
	Notes: ~~The system manager states that the well pumps at 80 GPM~~	operator says 80gpm, DDW database shows 60 gpm pump capacity + 100 gpm safe yield,
5	Are there any cross-connections present in the well discharge piping? (Lack of Hose Bibb Vacuum breaker is NOT considered a cross-connection)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	**Is the pump discharge line (excluding naturally flowing wells) equipped with:**	
7.01	Pump discharge piping: a smooth-nosed sampling tap?	☐ Yes ☑ No ☐ NA ☐ Unknown
	Notes: There is a tap but it is not smooth-nosed.	

Question Number		
7.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.03	Pump discharge piping: pressure gauge?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.04	Pump discharge piping: a means of measuring flow?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.05	Pump discharge piping shut off valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	**If the well pumps directly into a distribution system, is there a means to release trapped air from the pump discharge piping? (for example, pumps directly to a tank,, has an air release valve or pump to waste line) answer "yes" explain in notes (Answer 9.01, 9.02, 9.03 for air release valve only)**	☑ Yes ☐ No ☐ NA ☐ Unknown
8.01	For a well with an air vacuum relief valve on the well discharge piping, is the discharge piping downturned?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.02	For a well with an air vacuum relief valve on the well discharge piping, is the discharge screened with a #14 mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.03	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?	☑ Yes ☐ No ☐ NA ☐ Unknown
9	Are the correct types of lubricant used (ANSI/NSF 60)? Notes: The pump is submersible, not lubricant is required	☐ Yes ☐ No ☑ NA ☐ Unknown
10	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown

Sources / Groundwater

WS002-WELL #2 - (Active) / General:

1	**Is this a seasonal source?**	☐ Yes ☑ No ☐ NA ☐ Unknown
1.02	Numeric month of beginning operation:	

cannot find WS002 approval; DDW 9-20-95 letter to EID lists reasons WS002 cannot be approved; 1996 survey report also notes lack of WS002 approval;

Question Number		
5.01	Does the pump to waste line discharge with a minimum of 12-inch clearance to the flood rim?	☑ 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 recepticle without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is there a means to periodically measure water levels?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured to protect the quality of the well water?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

WS002-WELL #2 - (Active) / Pumps:

1	Where does this pumping station pump from and to?	Well to dirstribution line
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
	Notes: ~~The system manager states this well pumps at 250 GPM~~	operator says 250 gpm; DDW database shows 250 gpm pump capacity & 200 gpm safe yield;
5	Are there any cross-connections present in the well discharge piping? (Lack of Hose Bibb Vacuum breaker is NOT considered a cross-connection)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	**Is the pump discharge line (excluding naturally flowing wells) equipped with:**	
7.01	Pump discharge piping: a smooth-nosed sampling tap?	☑ Yes ☐ No ☐ NA ☐ Unknown

Question Number		
7.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.03	Pump discharge piping: pressure gauge?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.04	Pump discharge piping: a means of measuring flow?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.05	Pump discharge piping shut off valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	**If the well pumps directly into a distribution system, is there a means to release trapped air from the pump discharge piping? (for example, pumps directly to a tank,, has an air release valve or pump to waste line) answer "yes" explain in notes (Answer 9.01, 9.02, 9.03 for air release valve only)**	☑ Yes ☐ No ☐ NA ☐ Unknown
8.01	For a well with an air vacuum relief valve on the well discharge piping, is the discharge piping downturned?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.02	For a well with an air vacuum relief valve on the well discharge piping, is the discharge screened with a #14 mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.03	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?	☑ Yes ☐ No ☐ NA ☐ Unknown
9	Are the correct types of lubricant used (ANSI/NSF 60)? Notes: It is a submersible pump and no lubricant is required	☐ Yes ☐ No ☑ NA ☐ Unknown
10	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown

Sources / Groundwater

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

1	**Is this a seasonal source?** DDW database shows that WS003 is the only EID without chlorination;	☐ Yes ☑ No ☐ NA ☐ Unknown
1.02	Numeric month of beginning operation:	_____

Question Number		
5.01	Does the pump to waste line discharge with a minimum of 12-inch clearance to the flood rim?	☑ Yes ☐ No ☐ NA ☐ Unknown
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen?	☐ Yes ☐ No ☐ NA ☐ Unknown
	Notes: The well is currently under maintenance and the mesh screen is removed. The system manager states that the well is pumping gravel and is currently not turned on. There was gravel on the floor of the well house and on the outside by the pump to waste line.	
5.03	Does the pump to waste line discharge to a recepticle without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is there a means to periodically measure water levels?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured to protect the quality of the well water?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

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

1	Where does this pumping station pump from and to?	Well to distribution line.
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
	Notes: The system manager states that the pumping capacity of this well is approximately 250 GPM.	
5	Are there any cross-connections present in the well discharge piping? (Lack of Hose Bibb Vacuum breaker is NOT considered a cross-connection)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	**Is the pump discharge line (excluding naturally flowing wells) equipped with:**	

Operator says 250 gpm; DDW database shows 270 gpm pump capacity & 300 gpm safe yield;

Question Number		
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)**	☑ Yes ☐ No ☐ NA ☐ Unknown
5.01	Does the pump to waste line discharge with a minimum of 12-inch clearance to the flood rim?	☑ 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 recepticle without proper local authorization?	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Is there a means to periodically measure water levels?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	Is the wellhead properly secured to protect the quality of the well water?	☑ Yes ☐ No ☐ NA ☐ Unknown

Sources / Groundwater

WS004-UPPER FREEZE CREEK WELL - (Active) / Pumps:

1	Where does this pumping station pump from and to?	Well to Freeze Creek Well to distribution line
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)? Notes: The system manager states the well pumps 250 GPM	250 Operator says 250 gpm; DDW database shows 250 gpm pump capacity & 400 gpm safe yield.
5	Are there any cross-connections present in the well discharge piping? (Lack of Hose Bibb Vacuum breaker is NOT considered a cross-connection)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	☐ Yes ☑ No ☐ NA ☐ Unknown
7	**Is the pump discharge line (excluding naturally flowing wells) equipped with:**	

Question Number		
7.01	Pump discharge piping: a smooth-nosed sampling tap?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.02	Pump discharge piping: a positive-acting check valve between the sample tap and the isolation valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.03	Pump discharge piping: pressure gauge?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.04	Pump discharge piping: a means of measuring flow?	☑ Yes ☐ No ☐ NA ☐ Unknown
7.05	Pump discharge piping shut off valve?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	**If the well pumps directly into a distribution system, is there a means to release trapped air from the pump discharge piping? (for example, pumps directly to a tank,, has an air release valve or pump to waste line) answer "yes" explain in notes (Answer 9.01, 9.02, 9.03 for air release valve only)**	☑ Yes ☐ No ☐ NA ☐ Unknown
8.01	For a well with an air vacuum relief valve on the well discharge piping, is the discharge piping downturned?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.02	For a well with an air vacuum relief valve on the well discharge piping, is the discharge screened with a #14 mesh screen?	☑ Yes ☐ No ☐ NA ☐ Unknown
8.03	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?	☑ Yes ☐ No ☐ NA ☐ Unknown
9	Are the correct types of lubricant used (ANSI/NSF 60)? Notes: It is a submersible pump which does not require lubrication	☐ Yes ☐ No ☑ NA ☐ Unknown
10	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown

TP001-BRIGHAM FORK CHLORINATOR - (Active) / General

General:

1	**Is this plant operated on seasonal basis?**	☐ Yes ☑ No ☐ NA ☐ Unknown

DDW cannot find WS001/TP001 approval documentation,

Question Number		
11	Is a weight scale provided for weighing chlorine gas cylinders / containers?	☐ Yes ☐ No ☐ NA ☐ Unknown
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?	☐ Yes ☐ No ☐ NA ☐ Unknown
13	**Is the chlorine cylinder utilized 150 pounds in capacity?** ,	☐ Yes ☑ No ☐ NA ☐ Unknown
13.01	Is a type "A" leak repair kit approved by the Chlorine Institute available?	☐ Yes ☐ No ☐ NA ☐ Unknown
13.02	Is a bottle of ammonium hydroxide (56 per cent ammonia solution) available for chlorine leak detection?	☐ Yes ☐ No ☐ NA ☐ Unknown
14	**Is the chlorine cylinder utilized 1 ton in capacity?**	☐ Yes ☐ No ☐ NA ☐ Unknown
14.01	Is a type "B" leak repair kit approved by the Chlorine Institute available?	☐ Yes ☐ No ☐ NA ☐ Unknown
14.02	Is a means of leak detection provided?	☐ Yes ☐ No ☐ NA ☐ Unknown
14.03	Does the water supply to each injector have a separate shut-off valve?	☐ Yes ☐ No ☐ NA ☐ Unknown

TP002-WELL 2 CHLORINATOR - (Active) / General

General:

1	**Is this plant operated on seasonal basis?**	☐ Yes ☑ No ☐ NA ☐ Unknown
1.01	Numeric month of beginning operation	_____
1.02	Numeric day of beginning operation	_____
1.03	Numeric month of ending operation	_____

~~DDW cannot find either pre-construction plan~~
DDW cannot find TP002 approval, 3-6-95 ~~letter of~~ letter with consultant's W5002 design does not mention chlorination;

Question Number		
13	**Is the chlorine cylinder utilized 150 pounds in capacity?**	☐ Yes ☑ No ☐ NA ☐ Unknown
13.01	Is a type "A" leak repair kit approved by the Chlorine Institute available?	☐ Yes ☐ No ☐ NA ☐ Unknown
13.02	Is a bottle of ammonium hydroxide (56 per cent ammonia solution) available for chlorine leak detection?	☐ Yes ☐ No ☐ NA ☐ Unknown
14	**Is the chlorine cylinder utilized 1 ton in capacity?**	☐ Yes ☑ No ☐ NA ☐ Unknown
14.01	Is a type "B" leak repair kit approved by the Chlorine Institute available?	☐ Yes ☐ No ☐ NA ☐ Unknown
14.02	Is a means of leak detection provided?	☐ Yes ☐ No ☐ NA ☐ Unknown
14.03	Does the water supply to each injector have a separate shut-off valve?	☐ Yes ☐ No ☐ NA ☐ Unknown

TP004-UPPER FREEZE CREEK CHLORINATOR - (Active) / General

General:

1	**Is this plant operated on seasonal basis?**	☐ Yes ☑ No ☐ NA ☐ Unknown
1.01	Numeric month of beginning operation	_____
1.02	Numeric day of beginning operation	_____
1.03	Numeric month of ending operation	_____
1.04	Numeric day of ending operation	_____
2	Is the treatment plant properly secured to protect the quality of the treatedl water?	☑ Yes ☐ No ☐ NA ☐ Unknown

for TP004, see DDW File # 9317, operating permit letter 2-6-14;

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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?**	☐ Yes ☑ No ☐ NA ☐ Unknown
3.01	How many new connections have been added between the point of disinfection and the first customer?	_____
4	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?	☑ Yes ☐ No ☐ NA ☐ Unknown
5	Is cross-connection control provided on the service water lines that feed the solution tanks?	☐ Yes ☐ No ☑ NA ☐ Unknown
6	Is there a means to measure the volume of water treated?	☑ Yes ☐ No ☐ NA ☐ Unknown
7	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?	☑ Yes ☐ No ☐ NA ☐ Unknown
8	Are spare parts available to replace parts subject to wear and breakage?	☑ Yes ☐ No ☐ NA ☐ Unknown

TP004-UPPER FREEZE CREEK CHLORINATOR - (Active) / Chlorination

Hypochlorination:

1	Is the storage tank covered to minimize corrosive vapors?	☑ Yes ☐ No ☐ NA ☐ Unknown

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

Design:

1	What is the name of this storage facility?	Emigration /Oak Reservoir
2	What is the total capacity for this storage facility in gallons? (DO NOT USE COMAS IN NUMERIC ANSWER) Notes: ~~The system manager states it is 300,000 gallons.~~	300000 Operator says 300,000 gals.; DDW database shows 355,000 gals.;
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

Storage / ST002-WILDFLOWER RESERVOIR - (Active)

Design:

1	What is the name of this storage facility?	Wildflower Reservoir
2	What is the total capacity for this storage facility in gallons? (DO NOT USE COMAS IN NUMERIC ANSWER)	1000000
	Notes: The system manager states that the capacity of this tank is 1,000,000 gallons.	operator says 1MG; DDW file# 05952, 8-14-02, 1 MG preconstruction approval; DDW database shows 1.3 MG;
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	Does the storage tank roof cover show evidence of ponding with deterioration?	☐ Yes ☑ No ☐ NA ☐ Unknown

Storage / ST002-WILDFLOWER RESERVOIR - (Active)

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?	☑ 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?	☑ 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 or a minimum of 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