



State Water Resources Control Board

Division of Drinking Water

December 9, 2022

PWS# 1800512

Clear Creek CSD
P.O. Box 833
Westwood, CA 96137

Attention: Nicolette Moroney, General Manager

Subject: Sanitary Survey Inspection Report

On June 16, 2022, staff engineer Rick Wade met with JD Hackett to conduct an inspection of the Clear Creek Community Service District (District) water system. The Inspection Report and System Record are enclosed for your review and action. The water system appears to be operated in a professional and conscientious manner.

As noted in the inspection report, the District needs storage capacity in order to meet the requirements of the California Waterworks Standards. And to that end, we understand the District's water system improvement project, currently in the planning phases, is addressing this issue by including a 400,000-gallon storage tank. We encourage the District to continue working with our Division of Financial Assistance to make progress on this project.

If you have any questions, please contact Rick Wade at (530) 224-2413 or me at (530) 224-4828.

A handwritten signature in blue ink that reads "Stephen Watson".

Stephen W. Watson, P.E.
Lassen District Engineer
Drinking Water Field Operations Branch

Enclosures

rw \ Clear Creek CSD 1800512 \ 2002 \ Inspection Report

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

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**State Water Resources Control Board
Division of Drinking Water
Inspection Report**

System Name Clear Creek CSD – Westwood System Number 1800512
 Contact Nicolette Moroney, Manager; JD Hackett, Operator
 Physical Address 667-055 Spring Creek Drive, Westwood, CA 96137
Clear Creek CSD Fire Station, 4 miles west of Westwood on Co Rd A21
 Phone No. (530) 256-3096 - office; (530) 375-9004 – JD’s cell
 Community Served Clear Creek County Lassen
 Date of Inspection June 16, 2022 Staff Engineer Rick Wade
 Last Inspection September 9, 2019 District Engineer Steve Watson, P.E.

A. INTRODUCTION

1. Permit Status (Date Issued/Amendment Purpose)

Full Issued December 31, 1993 - Lassen District mass mail

Amendment(s) None

Are the permit provisions complied with? No provisions

Is the permit up to date? No, permit should be amended for continuous chlorination treatment.

System Classification Residential area in Clear Creek, 3 miles from Westwood, elevation 4950ft; original system, including development of spring, constructed in 1957; classified as a Community Water System.

2. Changes in System

Recent system changes The CSD purchased the property for the location of the proposed storage tank and removed trees for the location of the proposed pump house.

Planned future changes The CSD has a proposed improvements project. The project proposal includes installing 166 water meters, 35 fire hydrants, construction of a 390,000-gallon storage tank, construction of a new pump house, rehabilitation of the existing spring house, and installation of new pipe to the new pump house and storage tank.

3. Consumer and Production Data

Year	Reported Demands					Estimated Demands			Total Unmetered SC	Max Pop
	Annual (MG)	Max Month (MG)	Calendar Month	Max Day		Max Day		GPM PDP SC		
				(MG)	(gpm)	(MG)	(gpm)			
2012	12	1.0				0.048	34	0.20	166	400
2013	Not Reported								166	400
2014	20.578	4.775	July	0.154	107	0.231	160	0.97	166	400
2015	14.865	3.011	July	0.097	67.4	0.146	101	0.60	168	400
2016	18.406	4.849	July	0.149	103	0.235	163	0.97	168	400
2017	16.603	4.430	July	0.191	133	0.214	149	0.89	168	400
2018	20.301	5.469	July	0.281	195	0.265	184	1.11	166	400
2019	18.961	4.867	August	0.204	142	0.236	164	0.98	166	400
2020	27.634	5.507	July	0.276	192	0.266	185	1.11	166	454
2021	25.034	5.621	July	0.248	172	0.272	189	1.14	166	400
Ave	17.126	3.92		0.200	139	0.212	148	0.88		
Max	27.6	5.621		0.281	195	0.272	189	1.14		

Discussion and appraisal The data in the table above was provided by the District in its Annual

Report (eAR) to the Division of Drinking Water. The water demands appear typical for an unmetered water system of this type and size in this area. The District’s totalizing water meter, located downstream of the pressure tank, is read monthly, so Maximum Day Demand (MDD) was estimated as 1.5 times the max month demand divided by the number of days in the max month. The District’s highest reported max month demand over the past nine years for which the Division has data was 5.621 million gallons in July 2021. The highest estimated MDD over the past nine years for which the Division has data was 189 gallons per minute (gpm), or 0.27 million gallons per day (mgd) in 2021. The estimated MDD per connection, was 1.1 gpm per service connection (SC) in 2021, averaging 0.88 gpm per SC.

B. SOURCE DATA

Sources	Status	Capacity	Comments
Groundwater			
Spring	Active	833 gpm pump capacity 449 gpm 236 mg/yr water right	Located northeast of the distribution system; protected by an A-frame wood spring house (added in 1973); ceiling between water and A-frame roof may have been the original roof; spring house constructed to prevent surface water influence; spring house enclosed in 8-foot high cyclone fence with a locked gate and topped with barbed wire; spring box lid is equipped with shoebox lid and is alarmed; the operator visits the spring monthly.

Discussion and appraisal (i.e., does source capacity comply with Waterworks Standards [WWS]?) Section 64554(a) of the WWS requires that public water systems have the source capacity to meet the system’s maximum day demand (MDD). MDD is determined pursuant to subsection 64554(b)(1) as the day with the highest usage during the past ten years. The District’s 833 gpm pumping capacity and instantaneous 1 cubic foot per second (cfs), or 449 gallons per minute (gpm), water right for Clear Creek spring is sufficient to meet the 2021 estimated MDD of 189 gpm.

Water flows from the spring through approximately 1,200 feet of 8-inch steel pipe, to an underground cistern of approximately 2,000 gallons (dimensions 12ft x 6ft x 4ft). Water is pumped from the cistern into a 5,000-gallon pressure tank, or directly into the distribution system, depending upon system demands.

The level of the water over the discharge pipe at the spring is recorded monthly. In 2021 the District reported that the level was consistently between 15 and 12 inches. The water reached a record high of 24.75 inches in April 2018; receding to 20.25 inches by June 2018. A summary of the recent records is shown in the table below and indicates that the water level peaked in 2018 and has been declining in recent years.

Summary of recent levels of the water over the discharge pipe at the spring – (inches)

Year	Low	High	Average
2014	10.0	12.5	11.7
2015	10.0	13.5	11.7
2016	11.5	18.0	14.3
2017	16.0	21.0	18.7
2018	20.0	24.8	21.6
2019	15.5	21.0	17.4
2020	12.0	15.5	13.7
2021	12.0	15.0	13.7

Discussion and appraisal The source meters and water level over the discharge pipe are read monthly.

C. TREATMENT

1. Surface Water Sources None; the District's spring is classified as a groundwater source.

2. Groundwater Sources

Is continuous disinfection provided? Yes

Describe facilities The chlorination equipment is housed inside the pump room adjacent to the firehouse. A 24 gpd LMI (Model A151 1925) metering pump injects a 6.25% sodium hypochlorite solution into the pump discharge line prior to the pressure tank whenever a pump is operating. The metering pump draws from a 45-gallon capacity covered plastic storage tank. The feed solution is prepared by diluting NSF Standard 61, Sierra PurChlor, 12.5% sodium hypochlorite solution one to one with treated water.

Discussion and appraisal Chlorination facilities are in good condition.

3. Other Treatment or Blending Facilities None.

4. Describe Records Maintained of Treatment The operator monitors chlorine residuals three times a week, to ensure that residual chlorine is detected between 0.1-0.2 mg/L. The Division has provided a spreadsheet for the operator to record monthly water production and treatment, and the District is required to submit those records to the Division every month. At a minimum, the operator should record the meter reading, volume of treated water, hypochlorite solution level, hypochlorite solution used, and chlorine residual.

D. Storage

Name	Type	Capacity (gallons)	Zone	Comments
Cistern	Concrete (underground)	2,154 (estimated)	Main	Under pump room at fire house; 14-foot depth measured when booster pumps were replaced in 2008

Does storage capacity comply with Waterworks Standards (WWS)? Section 64554(a)(2) of the WWS requires water systems with less than 1,000 service connections to have storage capacity equal to or greater than their maximum day demand (MDD) unless the system can demonstrate that it has additional source of supply or has an emergency source connection that can meet the MDD requirement. The District does not have an additional source of supply nor an emergency source connection that can meet the MDD requirement. Pursuant to Section 64554(b)(1), MDD is determined as the day with the highest usage during the past ten years. The District's storage capacity, prior to pumping is estimated to be 2,154 gallons, which is insufficient to meet its 2021 reported MDD of 0.25 MG.

The District has a proposed improvements plan including construction of a 0.39MG capacity storage tank and new pump house. The District has an application with Technical Assistance for DWSRF funding to implement the improvements plan.

Are all data sheets completed and on file? No data sheets for the Spring or Cistern.

Are ODW coating procedures adhered to? Pressure Tank - N/A

Discussion and appraisal (i.e., were reservoirs coated, cleaned and/or inspected last year?

Plans for recoating, cleaning and/or inspection? Pressure Tank - N/A

E. TRANSMISSION FACILITIES

Describe transmission facilities: Approximately 1,200 feet of 8-inch steel pipe, from the spring to the underground cistern.

Are there low head lines? The initial, approximately 80 feet, of pipe exiting the spring is under water. The entire length of transmission pipe from the spring to the cistern appears to be low head with approximately one to five foot of head, provided by the spring.

Discussion and appraisal The original transmission main was installed in 1957 and upgraded in 1973; abandoned, leaking portions of pipe can be seen downstream from the spring house.

F. DISTRIBUTION SYSTEM

1. Pressure Zones

Pressure Zone	Pressure Range	Water Sources	Storage Capacity	No. of Conn.
Main	32 - 57 psi	Spring	2,100 gallons	All

2. Pump Stations

Station	Capacity	Status	From	To	Comments
Pump #1	15 hp 417 gpm	Active	Cistern	Pressure Tank and Distribution	Alternate lead and lag; currently lead; comes on at 37 psi, off at 57 psi; lag also comes on if lead cannot keep up with demand; both pumps, electrical panel and wiring replaced in 2008; seal replaced, and pump leveled in 2012
Pump #2	15 hp 417 gpm	Active	Cistern	Pressure Tank and Distribution	Alternate lead and lag; currently lag; comes on at 32 psi, off at 52 psi; both pumps, electrical panel and wiring replaced in 2008; seal replaced, and pump leveled in 2012

3. Mains

Material	Amount @ %	Size	Condition	Comments
Galvanized steel pipe	99%	2" – 4"	Good	Installed in 1957
PVC	1%	4"	Good	

4. Discuss recent leak history (mains and connections)

Type	Number			Comments
	2019	2020	2021	
Service Connection Breaks/ Leaks	0	0	0	
Main Breaks/Leaks	0	5	0	Patched holes in mains
Water Outages	0	0	1	Brief outage
Boil Water Orders	0	0	0	
Total	0	5	1	

Discussion and Appraisal Very few leaks in this 1957 era distribution system.

5. Are Distribution facilities constructed in accordance with Waterworks Standards? No.
The 2-inch and 4-inch mains are undersized. The galvanized pipe is not a material approved by the WWS.

The improvements plan includes replacing old and undersized lines as necessary. The District submitted an application for DWSRF funding.

6. **Describe water main and sewer line separation practices** Septic tanks and leach fields are in back yards and the water distribution system is in the street, with approximately 50 - 150 feet of separation between the two systems.
7. **Extent of lead pipes, joints, and/or lead solder used in distribution system and present policy** None known.
Discussion and appraisal The distribution system is constructed of undersized and unapproved material.

G. WATER QUALITY and MONITORING

1. Bacteriological Monitoring

Description of program An operator collects bacteriological samples and takes the samples to Hamilton Branch where the lab courier collects samples; PACE Laboratory, Chico, picks-up and analyzes samples.

Bacteriological sampling siting plan (BSSP) The District's February 25, 2020, BSSP is not current with respect to raw water sampling and the revised total coliform rule.

Groundwater Rule Monitoring Plan (GWRMP) The District's July 20, 2015, GWRMP is up-to-date with respect to ownership, laboratory, and includes a map showing the location of the well sources, meeting Division requirements. The GWRMP helps ensure that in the event of a bacteriological positive sample in the distribution system the well source will be sampled within 24 hours.

Controlling factor (population or service connections) and number of samples required per month 25 – 1,000 population requires one (1) sample per month; 15 - 400 service connections also requires one (1) sample per month.

Raw Water Monitoring Monthly raw water monitoring is performed at Spring 01.

Bacteriological Record The District has a good record of collecting the one required routine monthly bacteriological sample and compliance with the total coliform rule (TCR). Records show that the District has not missed collecting a routine monthly sample since May 2016. Since July 2016 the District has complied with the bacteriological water quality standards, by having no more than one positive bacteriological sample.

Discussion and appraisal The District has a good bacteriological monitoring program and record. An updated BSSP template will be included for the District to complete and return to the Division.

2. Chemical Monitoring

Description of program The District's certified operator collects the water quality samples, which are picked up by PACE Lab courier at Hamilton Branch.

Discussion and appraisal As a community system, under the Chemical Monitoring Regulations, at all active sources, nitrate monitoring is required annually; nitrite and perchlorate are required at least once every three years; secondary/general physical and inorganic are required every three years until three rounds have been analyzed, and then are required at least once every nine years; volatile organic chemicals (VOC) are required at least once every six years; and, based upon historical monitoring results, gross alpha and radium-288 are required at least once every nine years. Records show that the District is up to date on its source chemical monitoring. An updated source water monitoring schedule is attached.

3. Other Organics Not required.

4. Disinfection/Disinfection By-Products Rule

Stage 2 Disinfectants & Disinfection Byproducts Rule (Stage 2 DBPR): The current monitoring plan, dated August 9, 2022, has the District collecting two individual samples from 800 Spring Creek Drive and 885 Forest Path at least once every three years during the month of August.

Summary of Stage 2 DBPR Monitoring Results - in micrograms per liter (µg/L)

		TTHM	HAA5	Sample Location
Maximum Contaminant Level		80	60	
Round	Date Collected	Results		
Stage 2 DBPR				
1	July 15, 2020		ND	666-800 Spring Creek Drive
2	July 15, 2020	ND		666-885 Forest Path
3	July 12, 2021		ND	666-800 Spring Creek
4	July 12, 2021	ND		666-885 Forest Path
Due	August 2024			

Regulated Contaminants The locational running annual average MCLs for total trihalomethanes (TTHMs) and the five regulated haloacetic acids (HAA5s) are 80-ppb and 60-ppb, respectively.

Routine Monitoring Requirements Regulations require annual sampling at two locations: a location representing the highest residence time in the distribution system to be monitored for TTHMs, and a location representing average residence time in the distribution system to be monitored for HAA5s.

Reduced Monitoring If the results for TTHMs and HAA5s are less than half of their respective MCLs, the District may reduce the sampling frequency to once every three years at both locations.

Monitoring Plan The District’s current plan on file, dated August 9, 2022, has the District collecting two individual samples triennially during the month of August.

Discussion & appraisal In accordance with Section 64534.2(d)(2), the District has an approved DBP Monitoring Plan on file with the Division. The results for TTHMs and HAA5s have consistently been below 40 ppb and 30 ppb, respectively. Therefore, the District may reduce their monitoring for TTHMs and HAA5s to once every three years during the month of August. The most recent samples for TTHMs and HAA5s were collected on July 21, 2021; therefore, the next set of samples is due during August 2024.

5. Lead and Copper

Description of program Our records show that under California’s Lead and Copper Rule the District has completed nine rounds of lead and copper monitoring with no exceedance of the lead and copper 90th percentile action levels of 0.015 milligrams per liter (mg/L) and 1.3 mg/L respectively. Under reduced monitoring, the District is required to collect five tap samples from the distribution system, in accordance with Division procedures, every three years.

Lead and Copper Monitoring Record – all units in milligrams per liter (mg/L)

Action Level			Lead	Copper	
			0.015	1.3	
Round	Date	No. of Samples	90th percentile results		Comments
1	11/3/1995	10	0.009	0.75	Standard monitoring
2	1/8/1996	10	0.007	0.30	Standard monitoring
3	9/1/1999	5	0.000	0.28	Reduced monitoring
4	9/21/2005	5	0.01055	0.34	Reduced monitoring
5	8/6/2008	5	0.00125	0.01	Reduced monitoring
6	7/26/2011	5	0.00540	0.21	Reduced monitoring
7	08/21/2015	5	0	0.152	Reduced monitoring
8	07/31/2018	5	0.003	0.159	Reduced monitoring
9	7/13/2021	5	0	0.108	Reduced monitoring
10	June – September 2024	5	Due	Due	Reduced Monitoring

Discussion and appraisal The next round of reduced sampling is due at five sites between June and September 2024.

6. Is an approved water quality monitoring plan on file Not required; Section 64416 requires systems with >10,000 contiguous SC to submit a monitoring plan for all monitoring except bacteriological.

7. Drinking Water Source Assessment Program (DWSAP)

Sources	Status	Completion Date	Date Sent	Comments
Spring	Complete	October 2001	July 24, 2003	Completed by the Division

Discussion and appraisal The Division completed a DWSAP on the District's spring source in October 2001. The spring is considered most vulnerable to managed forests, and freeway/state highway and road right-of-ways transportation corridors, not associated with any detected contaminants in the water supply.

8. Emergency Response Plan (ERP) As a system serving less than 3,300 population, the District was not required to conduct a vulnerability assessment and ERP under the 2002 *Bioterrorism Preparedness and Response Act*. The District submitted a complete small water system ERP on June 12, 2007. As a useful tool in the event of an emergency, the Division encourages the District to keep its ERP current.

9. Water Conservation and Drought Preparedness The District's source is metered. According to its 2021 annual report to the drinking water program, the District did not activate emergency standby wells or implement new water conservation measures in 2021 and does not project water shortages or anticipate having to go to mandatory rationing in 2022.

10. Security There is an emphasis on security at the District. The spring source is covered and entirely enclosed in a wood sided building with screens at the eaves, inside a locked fence. The fire station, housing the District's booster pumps and pressure tanks is normally locked. The spring is visited monthly and the fire station is visited daily, Monday through Friday.

11. Annual Reports to the Drinking Water Program (ARDWP) The annual report is required for

community systems and is due in April for the previous calendar year. In recent years the District has regularly submitted the required ARDWP. Our records show that the 2005 – 2008 ARDWP were submitted by hard copy. The 2010 - 2021 reports were submitted electronically to the electronic annual report (eAR) portal.

12. Consumer Confidence Report (CCR) The CCR is required annually for community systems and must be distributed by July 1 for the previous calendar year. The District has a good record of distributing the CCR to its customers and submitting the CCR certification form to the Division. The Division received copies of the District's 2010 - 2020 CCRs and certifications. The District's CCR contains the required DWSAP language.

H. OPERATION and MAINTENANCE

1. Planning and Personnel

Are system improvements made in accordance with the Waterworks Standards? Yes.

Does the utility have up-to-date distribution system maps? Yes.

Is up-to-date copy of system schematic on file? Yes.

What is the minimum grade requirement? As a community system, based on population served of 25 - 1,000, the District is classified as a Grade D1 distribution system, requiring a state-certified D1 chief distribution operator and D1 shift operators who make decisions with respect to repairing, operating, and monitoring the distribution system. A summary of the District's operator certification levels is given in the table below.

Name	Title	Certification	
		Distribution	Treatment
		D1	None
JD Hackett	Field Manager	D2 #17190 (exp.4/1/23)	T2 #25574 (exp. 4/1/23)

Discussion and appraisal The District's certified D2/T2 distribution operator makes decisions in the distribution system and is able to be contacted within one hour to respond in the event of an emergency, meeting the requirements of the regulations.

2. Cross-Connection Control Program

Name of cross-connection control inspector(s) None.

Is there a copy of the cross-connection control ordinance on file? Yes, Ordinance No. 4, dated January 12, 1982, Section 46. Cross Connection governs the necessity to install back flow devices to protect the public water supply from cross connection. A copy of the ordinance was submitted to the Division and is maintained in the main file and digital file. JD patrols the system all year

Discussion and appraisal There are no auxiliary water sources on the primarily residential system, and the potential for cross-connections is minimal. There are no backflow devices in the system. There were no backflow hazards noted during the inspection.

3. Complaints

Describe complaint program Complaints are called into the office and given to JD for follow-up.

Recent Customer Complaints Reported

Type	Number			Comments
	2021	2020	2019	
Color	0	0	0	
Pressure (high or low)	0	0	0	
Water Outage	0	0	0	
Other	0	0	0	
Total	0	0	0	

Discussion and Appraisal The District reports no complaints since 2016.

4. Outages and Low Pressures

Frequency of outages, their duration and cause The District suspected there was a low pressure event in August 2021 due to the backup generator failing during the Dixie fire. The residents had all evacuated for the fire. JD had repaired the generator and disinfected the system before residents returned. No residents were at risk. The District installed a diesel 35 KW generator in 2008. The generator is capable of operating the entire fire station including the water system booster pumps. The generator is automatically tested twice per month under load. JD repaired the generator in 2021.

Areas where low pressures occur, their frequency, duration, and cause There are no low pressure areas; the district is fairly level and most of the lines are looped.

Discussion and appraisal Low pressure is not a problem and outages are prevented by the emergency generator.

5. Emergency Response

Is an up-to-date emergency notification plan (ENP) on file? The District's July 31, 2019, ENP is current for District personnel and Division staff.

Emergency response plan Call fire department and sheriff; and door-to-door notification and broadcast on the radio; letters to non-resident owners.

Notification of ODW of significant system problems Yes, the District knows to contact us.

Discussion and appraisal Adequate program for a small system.

6. Main Disinfection Program

Describe main disinfection program (i.e., method, contact time, chlorine residual, bacteriological tests, records) for new and repaired mains Lines are disinfected by sodium hypochlorite injection when they are worked on.

Does the main disinfection program comply with AWWA standards? Yes.

Discussion and appraisal The operator is aware that pipes should be chlorinated and special bacteriological samples collected when mains are replaced or repaired.

7. Valve Maintenance Program

Describe program JD exercises valves annually.

Are number and location of valves satisfactory? (i.e., mainline, ARVR, blowoff valves, etc.) A couple areas could use more valves.

Discussion and appraisal (i.e., are valves recorded on maps available to field crews? Are all valves located with valve covers raised to grade?) Small system, valve locations known.

8. Flushing

Describe flushing program (i.e. deadends, records, etc.) The volunteer fire department flushes every six months to keep water clear; hydrants kept in good working condition. JD has advised the firefighters how to not hammer the hydrants while flushing.

Approximate number of deadends 5

Percent with flushing valves Currently 0%; the District plans to install a flushing valve at the end of all deadends.

Discussion and appraisal Flushing program appears to provide adequate flushing, no reported complaints.

I. RESILIENCY AND PREPAREDNESS (State Water Board Resolution # 2017-012)

1. Fire

Is a Defensible Space of 100 feet (California Public Resources Code, 4291) maintained around all structures managed by this CWS? Yes.

Comment: The water system pump house is located in the community firehouse. Defensible space is maintained around the firehouse. The highway, a pond, and a park border the pump house.

2. Flooding

Are any of the drinking water facilities vulnerable to flooding? No.

Comment: JD and Nicki had heard of a flood in 1997. If the pond were to flood, the cistern is sealed and protected from flooding. The pump house is elevated above flood line. The adjacent park will divert a sizable volume of flood water away from drinking water facility equipment.

3. Drought

Is system prepared for drought related shortages or outages? (interties, backup supply, increased storage) No.

Comment: The District does not have an emergency source however has plans to construct a storage tank. Spring intake levels have not ever dipped below ten inches over the spring discharge pipe.

4. Backup Power

Is backup power available via portable generators or permanent generators? Yes.

If liquid fuel is used is it properly contained and stored away from source? Yes.

Comment: A permanent diesel generator is in place at the firehouse.

Discussion: The CSD is prepared for climate related emergencies. To reduce the risk of supply shortage concerns, the proposed plan to construct a storage tank is recommended.

J. SYSTEM APPRAISAL

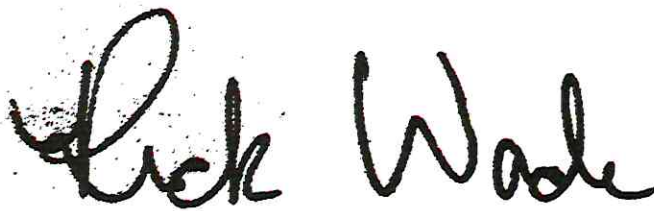
Appraisal of Source and Storage Capacities The District has a flow meter on its spring domestic water supply, which is read and recorded at least monthly, meeting Waterworks Standards (WWS) requirements. The District's pumping capacity is able to meet estimated maximum day demand (MDD) as required by the WWS. The District's storage capacity is unable to meet MDD as required by the WWS.

Appraisal of Sanitary Hazards and Safeguards No sanitary hazards were noted during the inspection. The separation between the spring source, and nearest septic tank and leach field are adequate and in accordance with our regulations. There are no backflow prevention devices in the system. As required, the water system is overseen by, at the minimum, a state-certified D1 Distribution System Operator.

Conclusions and Recommendations The District operates the domestic water system in a professional manner and strives to comply with all the Division's regulations. The maintenance of the system appears to be good. All source water chemical monitoring results meet standards.

K. ATTACHMENTS

1. Location Map
2. Service Area Map
3. System Record
4. Inspection Photos
5. System Schematics
6. BSSP template
7. Source Chemical Monitoring Schedule



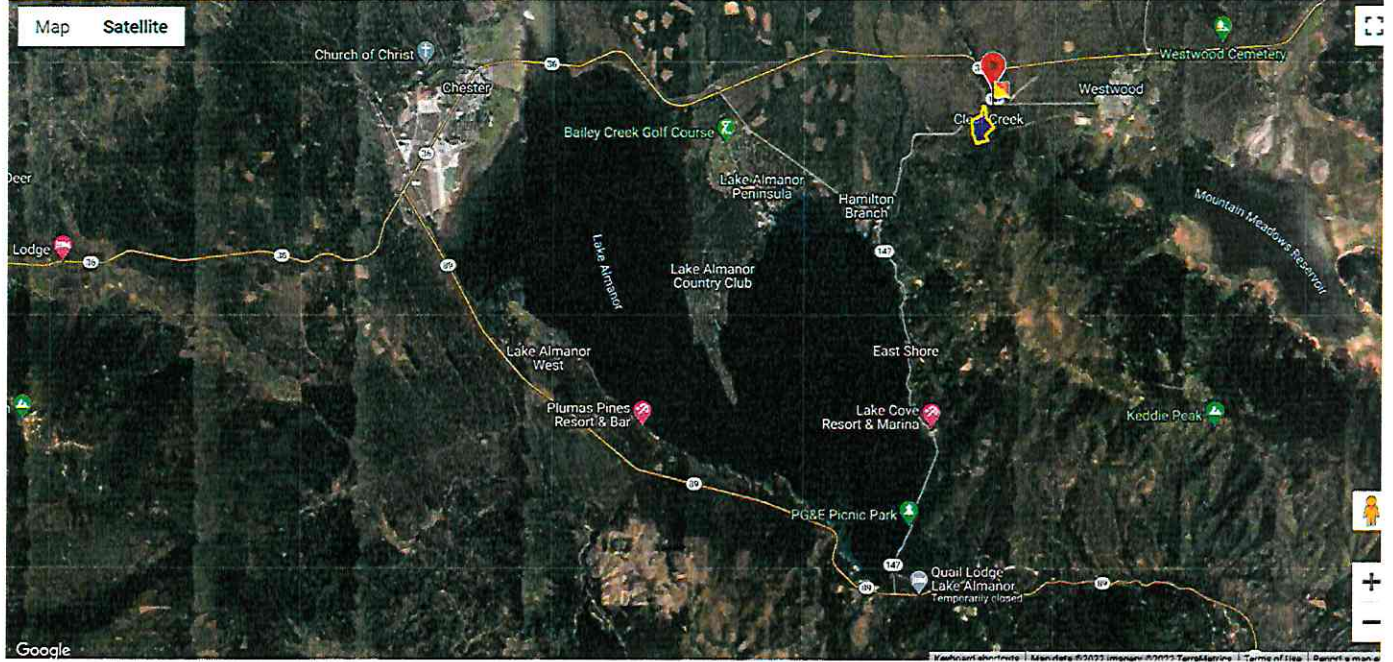
September 10, 2022

Rick Wade

Date

Water Resources Control Engineer
WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER
LASSEN DISTRICT FIELD OPERATIONS BRANCH

Location Map



Service Area Map



SYSTEM RECORD

Name of System Clear Creek CSD – Westwood System Number 1800512

Date Noted	Description of Defect or Hazard	Order No.	Reported Corrected	Confirmed Corrected
07/07/2015	For timely leak detection, the Division recommends more frequent than the current monthly source meter reading	Rec.		5/10/2022
9/9/2019	The District needs to submit a DBP monitoring plan by March 1, 2023.	2		8/9/2022
06/16/2022	Storage capacity is insufficient to meet WWS requirements. Current estimated MDD is 250,000 gallons greater than storage capacity.	4		

Order Number

1. Correct within 30 days.
 2. Correct within 3 months.
 3. Correct within 6 months.
 4. Correct within a year or provide a plan with schedule for long-term project to correct.
- Rec. Recommendation.
Rem. Reminder.



Figure 1 Spring house



Figure 4 Siding gaps sealed



Figure 2 Interior trusses



Figure 5 Eaves screened



Figure 3 Screened siding



Figure 6 Spring access hatch



Figure 7 Depth over spring discharge pipe reading



Figure 10 Pump 1 pedestal seal



Figure 8 Pump house



Figure 11 Pump data tag



Figure 9 Pump 1 - lead



Figure 12 Pump 2



Figure 13 Pump 2 pedestal seal



Figure 16 Sodium Hypochlorite - NSF cert



Figure 14 Disinfection system



Figure 17 Backup power generator



Figure 15 LMI metering pump



Figure 18 Backup generator fuel storage

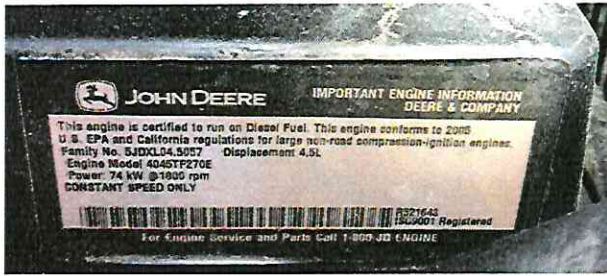
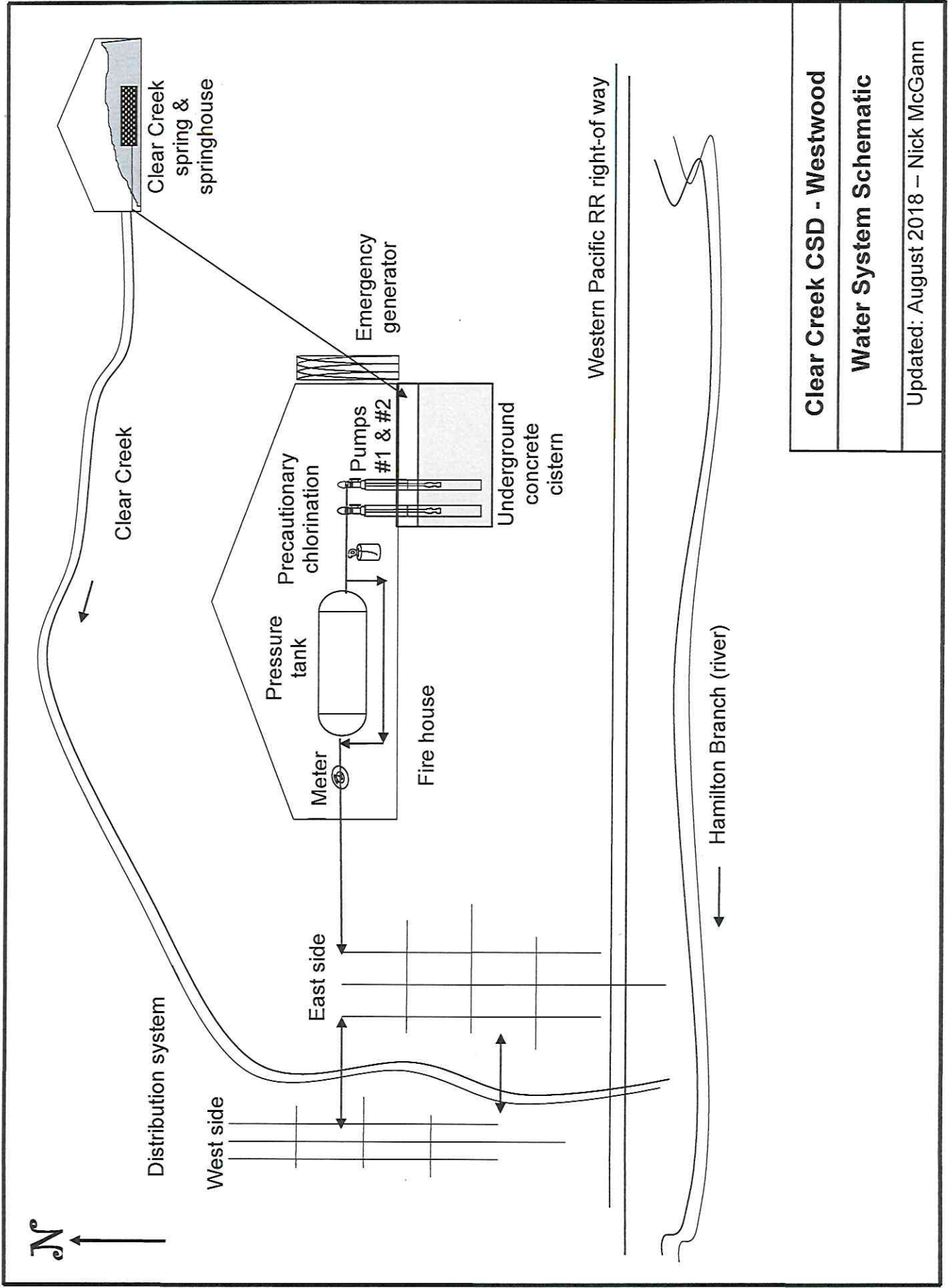


Figure 19 Generator data tag



Figure 20 Trees cleared for proposed pumphouse location



Clear Creek CSD - Westwood

Water System Schematic

Updated: August 2018 – Nick McGann



GAVIN NEWSOM
GOVERNOR

JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
Division of Drinking Water

BACTERIOLOGICAL SAMPLE SITING PLAN

System Information:					
Name of Utility:		System Number:			
Street Address:		Phone No.			
Mailing Address:		Fax:			
Service Connections:	Population Served:	Sampling Frequency:			
Sample Collection:					
All water samples will be collected by:					
Name of Laboratory:					
Mailing Address:					
State Lab Code:	Phone No.	Fax No.			
The Laboratory was sent a copy of this plan on:					
Raw Water Sampling:					
Is water continuously chlorinated?		<input type="checkbox"/> YES	<input type="checkbox"/> NO	(if no, ignore this section)	
Systems which provide continuous chlorine treatment are required to take samples of water prior to the addition of chlorine (raw water samples) on a quarterly basis. Please list below the sources which are continuously treated and the months when raw water samples will be taken:					
Source 1:	Months Sampled:				
Source 2:	Months Sampled:				
Source 3:	Months Sampled:				
Source 4:	Months Sampled:				
Map of System:					
A map of the distribution system showing the source (well, spring, etc.), storage tanks, treatment facilities, distribution piping, routine sample locations, and follow-up (repeat) sample locations is required.					
Have you enclosed this map?			<input type="checkbox"/> YES	<input type="checkbox"/> NO	

BACTERIOLOGICAL SAMPLE SITING PLAN (Cont.)

Sample Locations:			
The following describes each routine sample location, what months the location will be sampled, and where follow-up (repeat) samples will be taken in the event of a "positive" routine sample:			
Routine Sample Location/description		Repeat Sample Locations/descriptions	
1. Routine Sample		1. Routine Sample	
Routine samples will be collected from this location during the following months:		(hose bib, sink faucet, etc.)	
		2. Upstream Sample	
1 st Qtr.	<input type="checkbox"/> Jan. <input type="checkbox"/> Feb. <input type="checkbox"/> Mar.	(hose bib, sink faucet, etc.)	
2 nd Qtr.	<input type="checkbox"/> Apr. <input type="checkbox"/> May. <input type="checkbox"/> Jun.	3. Downstream Sample	
3 rd Qtr.	<input type="checkbox"/> Jul. <input type="checkbox"/> Aug. <input type="checkbox"/> Sep.	(hose bib, sink faucet, etc.)	
4 th Qtr.	<input type="checkbox"/> Oct. <input type="checkbox"/> Nov. <input type="checkbox"/> Dec.	4. Source Water Sample (Triggered GWR)	
Sampling Rules:			
Ground Water Rule (GWR) sampling: According to the Ground Water Rule (GWR), within 24 hours of notification of a total coliform-positive routine sample, the water system will collect at least one ground water source sample from each ground water source in use at the time the total coliform-positive routine sample was collected. Each GWR sample must be tested for E. Coli, and the well must be running when the sample is collected.			
Revised Total Coliform Rule - Level 1 Assessment: If a water system collects less than 40 routine and repeat samples per month, a Level 1 Assessment is required within 30 days if more than 1 total coliform positive sample is detected in a month. The same requirement is true for systems that collect 40 or more routine and repeat samples in a month and more than 5% of the samples are total coliform positive in that month.			
Following month routine sampling – For Transient Non-Community Systems performing Quarterly Routine Samples: In the month following one or more total coliform positive samples (with or without a Level 1 treatment technique exceedance) collect at least three routine samples.			
Preparer / Signature:			
Report prepared by:			
Signature:		Date:	
Title:			
Approved by DDW Representative:			
Signature:		Date:	
Title:			

DATE: 11/29/2022

STATE OF CALIFORNIA
 LAST AND NEXT SAMPLE REPORT

"Mod" field: "Interval", formerly seen as "M", means the sample Frequency was modified. "Date", formerly seen as "I", means the Next Required sample

System: CLEAR CREEK CSD-WESTWOOD

COUNTY: LASSEN

Sample Point: SPRING 01

CLASS: CTGP

STATUS:

PSCODE	GROUP/ANALYTE	LAST RESULT	LESS THAN	REPORTING LEVEL	UOM	MCL	DLR	LAST SAMPLE	FREQ MON THS	NEXT SAMPLE DUE
CA1800512_01_001	CLEAR CREEK CSD-WESTWOOD SECONDARY/GP									
1928	ALKALINITY, BICARBONATE	76		0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1919	CALCIUM	15		0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1929	ALKALINITY, CARBONATE		<	0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1017	CHLORIDE		<	0.000 MG/L	500	-----	-----	2/12/2018	108	2027/02
1905	COLOR		<	0.000 UNITS	15	-----	-----	9/12/2016	108	2025/09
1022	COPPER, FREE	3.68		0.500 UG/L	1000	50		7/19/2022	108	2031/07
2905	FOAMING AGENTS (SURFACTANTS)		<	0.000 MG/L	0.5	-----	-----	7/15/2019	108	2028/07
1915	HARDNESS, TOTAL (AS CaCO3)	56		0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1021	HYDROXIDE AS CALCIUM CARBONATE		<	0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1028	IRON		<	100.000 UG/L	300	100		2/12/2018	108	2027/02
1031	MAGNESIUM	5		0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1032	MANGANESE		<	20.000 UG/L	50	20		2/12/2018	108	2027/02
1920	ODOR		<	1.000 TON	3	1		9/12/2016	108	2025/09
1925	PH	6.83		0.000 pH		-----	-----	9/12/2016	108	2025/09
1050	SILVER		<	10.000 UG/L	100	10		2/12/2018	108	2027/02
1052	SODIUM	4		0.000 MG/L		-----	-----	9/12/2016	108	2025/09
1064	CONDUCTIVITY @ 25 C UMHOS/CM	128		0.000 UMHO/CM	1600	-----	-----	2/12/2018	108	2027/02
1055	SULFATE		<	0.500 MG/L	500	0.5		2/12/2018	108	2027/02

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COUNTY: LASSEN

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STATUS:

1930	TDS	81	0.000 MG/L	1000	-----	2/12/2018	108	2027/02
0100	TURBIDITY		< 0.100 NTU	5	0.1	9/12/2016	108	2025/09
1095	ZINC		< 50.000 UG/L	5000	50	2/12/2018	108	2027/02
INORGANIC								
1002	ALUMINUM		< 50.000 UG/L	1000	50	2/12/2018	108	2027/02
1074	ANTIMONY, TOTAL		< 6.000 UG/L	6	6	2/12/2018	108	2027/02
1005	ARSENIC		< 2.000 UG/L	10	2	7/14/2014	108	2023/07
1010	BARIUM		< 100.000 UG/L	1000	100	2/12/2018	108	2027/02
1075	BERYLLIUM, TOTAL		< 1.000 UG/L	4	1	2/12/2018	108	2027/02
1015	CADMIUM		< 1.000 UG/L	5	1	2/12/2018	108	2027/02
1020	CHROMIUM		< 10.000 UG/L	50	10	7/12/2021	108	2030/07
1025	FLUORIDE		< 0.100 MG/L	2	0.1	2/12/2018	108	2027/02
1035	MERCURY		< 1.000 UG/L	2	1	2/12/2018	108	2027/02
1036	NICKEL		< 10.000 UG/L	100	10	2/12/2018	108	2027/02
1039	PERCHLORATE		< 0.500 UG/L	6	2	7/19/2022	36	2025/07
1045	SELENIUM		< 5.000 UG/L	50	5	2/12/2018	108	2027/02
1085	THALLIUM, TOTAL		< 1.000 UG/L	2	1	2/12/2018	108	2027/02
NITRATE/NITRITE								
1040	NITRATE	0.12	0.050 MG/L	10	0.4	7/19/2022	12	2023/07
1041	NITRITE		< 0.400 MG/L	1	0.4	7/12/2021	36	2024/07
RADIOLOGICAL								
4109	GROSS ALPHA PARTICLE ACTIVITY		< 1.000 PCI/L	15	3	7/12/2021	108	2030/07
4030	RADIUM-228	2.07	0.400 PCI/L	-----	1	9/13/2016	108	2025/09
REGULATED VOC								

STATE OF CALIFORNIA
LAST AND NEXT SAMPLE REPORT

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System: CLEAR CREEK CSD-WESTWOOD				COUNTY: LASSEN				
Sample Point: SPRING 01				CLASS: CTGP		STATUS:		
2981	1,1,1- TRICHLOROETHANE	<	0.500 UG/L	200	0.5	7/31/2018	72	2024/07
2988	1,1,2,2- TETRACHLOROETHANE	<	0.500 UG/L	1	0.5	7/31/2018	72	2024/07
2985	1,1,2- TRICHLOROETHANE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2978	1,1- DICHLOROETHANE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2977	1,1- DICHLOROETHANE	<	0.500 UG/L	6	0.5	7/31/2018	72	2024/07
2378	1,2,4- TRICHLOROBENZENE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2968	O- DICHLOROBENZENE	<	0.500 UG/L	600	0.5	7/31/2018	72	2024/07
2980	1,2- DICHLOROETHANE	<	0.500 UG/L	0.5	0.5	7/31/2018	72	2024/07
2983	1,2- DICHLOROPROPANE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2413	1,3- DICHLOROPROPANE	<	0.500 UG/L	0.5	0.5	7/31/2018	72	2024/07
2969	P- DICHLOROBENZENE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2990	BENZENE	<	0.500 UG/L	1	0.5	7/31/2018	72	2024/07
2982	CARBON TETRACHLORIDE	<	0.500 UG/L	0.5	0.5	7/31/2018	72	2024/07
2380	CIS-1,2- DICHLOROETHANE	<	0.500 UG/L	6	0.5	7/31/2018	72	2024/07
2964	DICHLOROMETHANE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2992	ETHYLBENZENE	<	0.500 UG/L	300	0.5	7/31/2018	72	2024/07
2251	METHYL TERT-BUTYL ETHER	<	3.000 UG/L	13	3	7/31/2018	72	2024/07
2989	CHLOROBENZENE	<	0.500 UG/L	70	0.5	7/31/2018	72	2024/07
2996	STYRENE	<	0.500 UG/L	100	0.5	7/31/2018	72	2024/07
2987	TETRACHLOROETHYLENE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2991	TOLUENE	<	0.500 UG/L	150	0.5	7/31/2018	72	2024/07
2979	TRANS-1,2- DICHLOROETHANE	<	0.500 UG/L	10	0.5	7/31/2018	72	2024/07

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COUNTY: LASSEN

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STATUS:

2984	TRICHLOROETHYLENE	<	0.500 UG/L	5	0.5	7/31/2018	72	2024/07
2218	TRICHLOROFUOROMETHANF	<	5.000 UG/L	150	5	7/31/2018	72	2024/07
2904	TRICHLOROTRIFLUOROETHANE	<	10.000 UG/L	1200	10	7/31/2018	72	2024/07
2976	VINYL CHLORIDE	<	0.500 UG/L	0.5	0.5	7/31/2018	72	2024/07
2955	XYLENES, TOTAL	<	0.500 UG/L	1750	0.5	7/31/2018	72	2024/07