Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

25 June 2020

Volcano CSD
Attn: George Barnes
P O Box 72
Volcano, CA 95689
RE: Routine - Coliform
Work Order: 20F2081

Enclosed are the results of analyses for samples received by the laboratory on 06/16/20 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette Poplin

Jeanette L. Poplin For Karen L. Lantz
Project Manager

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Volcano CSD	Project Manager: George Barnes	
P O Box 72	Project: Routine - Coliform	Reported:
Volcano, CA 95689	Project Number: 0300016	06/25/20 07:06

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510 | ELAP# 3055

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Even Month: 0300016 Routine OS Country Store	20F2081-01	Water	06/16/20 07:30	06/16/20 14:10

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Volcano CSD	Project Manager: George Barnes	
P O Box 72	Project: Routine - Coliform	Reported:
Volcano, CA 95689	Project Number: 0300016	06/25/20 07:06

	Result		Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
Even Month: 0300016 Routine OS Country Store (20F2081-01)	**Sample Type: Water**					**Sampled: 06/16/20 07:30**				
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**6.53**	**pH Units**	**1.68**	1	AF04073	06/16/20 15:30	06/16/20 15:30	2922	SM4500-H+ B	T-14
Residual Chlorine	**0.35**	**mg/L**	**0.10**	1	AF04076	06/17/20 13:40	06/17/20 13:40	2922	SM4500-Cl F	T-14
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	Absent	.	1	1	AF04043	06/16/20 15:05	06/17/20 15:33	2922	Colisure	
E. Coli	Absent	.	1	1	AF04043	06/16/20 15:05	06/17/20 15:33	2922	Colisure	

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Volcano CSD	Project Manager: George Barnes	
P O Box 72	Project: Routine - Coliform	Reported:
Volcano, CA 95689	Project Number: 0300016	06/25/20 07:06

Notes and Definitions

A	Absent
P	Present
T-14	Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories Inc.
www.alpha-labs.com
WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory
208 Mason Street, Ukiah CA 95482
707-468-0401 F) 707-468-5267
email: clientservices@alpha-labs.com

ELAP Certifications
Ukiah 1551 / Dublin 2728 / Elk Grove 2922

Bay Area Laboratory
262 Rickenbacker Circle, Livermore, CA 94551
925-828-6226 F) 925-828-6309

Central Valley Laboratory
9090 Union Park Way #113, Elk Grove CA 95624
916-686-5190 F) 916-686-5192

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 20F2081 Pg ____ of ____

Report to	Invoice to (if different)	Project Information
Company: Volcano CSD	Contact:	Project ID: Coliform - Routine
Attn: George Barnes	Email address:	Project No:
Address: PO Box 72, Volcano, CA 95689	Address:	PO Number:
Phone/Fax: 209-296-4888	Phone/Fax:	Internal Lab Use: 189, 189(a) & 190, 190(a
Email Address:		

Signature below authorizes work under terms stated on reverse side.

Field Sampler - Printed Name & Signature: [signature]

Analysis Request: Total Number of Containers per Sample ID; CV - PH (500ml); CV - Chlorine Residual (glass); CV - PA; Courier

TAT: Standard 10 days; Standard 5 days; X 48 hours; Other: ____days; Lab preapproval required

Temp upon Receipt °C: Ukiah temp: ; Dublin temp: ; Elk Grove temp: 17C

Sample Identification	Date	Time	40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	NaOH	Na2S2O3	None	Water DW	Soil	Other	Total Number of Containers per Sample ID	CV - PH	CV - Chlorine Residual	CV - PA	Courier	Sample Notes or CDPH Source Numbers:
EVEN MONTH; 0300016	6-16-20	0730		x	x							x	x			1	x	x		x	
Routine os country store	"			x							x		x			1			x		
~~ODD MONTH: 0300016~~	~~6-16-20~~			~~x~~	~~x~~							~~x~~	~~x~~			~~1~~	~~x~~	~~x~~		~~x~~	
~~Routine @ 16430 Clapboard~~				~~x~~							~~x~~		~~x~~			~~1~~			~~x~~		

SCANNED

Relinquished by	Received by	Date	Time
[signature]	[signature]	6-16-20	1410

CDPH Write On EDT Transmission? Yes No

State System Number: ____

If "Y" please enter the Source Number(s) in the column above

Mail Hardcopy to DDW- ? Yes No

Hardcopy to DDW attn:

Travel and Site Time: | Mileage: | Misc. Supplies:

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 •Phone: (916) 686-5190 • Fax: (916) 686-5192

BACTERIA INFORMATION

We test for one type of bacteria at Alpha Analytical Laboratories, Inc. That type is known as Coliform Bacteria. Coliform describes a large grouping of several species of bacteria. In the type of testing we do, we refer to Total Coliform and Fecal Coliform. Total coliform tests are done to indicate if the potential exist for the types of bacteria, that can cause disease. Coliform Bacteria are not in themselves pathogenic (cause disease), but if coliform bacteria are present in your water, then it can be assumed that at least the potential exists for pathogens to also be present.

We also test for fecal coliform bacteria. Fecal coliform refers to a single species of bacteria, Escherichia coli. If fecal coliform bacteria are present in your well, it means that fecal matter from a warm-blooded source is present. Fecal matter is a common source of the specific types of bacteria that can cause disease, so you can see what a potentially dangerous situation exists if fecal coliform bacteria are in your water system.

If you wish more specific information concerning pathogenic bacteria in drinking water, please call your local public health department.

Sincerely,

Alpha Analytical Laboratories, Inc.

Robbie C. Phillips
President

FOR HOLDING TANK:
To Shock: 3 cups Bleach per 1000 Gal.
Maintain: 1 cup Bleach per 1000 Gal.

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Well Disinfection for Bacterial Contamination

If water from a well is found to be contaminated with coliform bacteria, it may be possible to eliminate the contamination by disinfecting the well. If the well is improperly constructed or poorly located, contamination may not be eliminated or may be only temporarily eliminated. In that case, a permanent disinfection system or a new well may be necessary. Well water systems may be disinfected by adding chlorine bleach to the water in the well. Clorox, Purex, White Magic, and Sani-Clor are some of the trade names for liquid bleaches sold in grocery stores. Read the label to insure it says the bleach contains 5.25 percent sodium hypochlorite. Use the following dosages as a guide:

Well Casing Diameter	Amount of Chlorine Bleach Needed
4 inches	Two and one-half (2 ½) cups
6 inches	Five (5) cups
8 inches	Seven and one half (7 ½) cups
12 inches	Twenty (20) cups or 1 ¼ gallons

NOTE: These quantities are for 100 feet of well depth. Adjust the quantities to fit the depth of your well. Use only unscented bleach.

These are the steps you should follow:

1. If the water is cloudy, attempt to clear as much as possible by pumping the well to waste. With the pump NOT operating, add the chlorine. It may be necessary to lift the pump, but some wells have openings that can be used for this purpose. The bleach should be added between the casing and the suction pipe of the pump.
2. Do not operate the pump for 30 minutes. After the 30-minute period, with the taps, faucets and hydrants open or closed, surge the well by starting and stopping the pump several times.
3. Open every tap, faucet or hydrant in the water piping system. Start the pump and let water flow until clean water with a strong smell of chlorine comes out.
4. Stop the pump and close all taps, faucets and hydrants and allow the mixture to stand in the system for 24 hours, or at least overnight. Disinfectant contact time with bacteria is important.
5. After contact time is accomplished, flush the chlorine mixture from the system by hooking a garden hose to an outside tap and running until no chlorine odor is present. Do not flush the mixture into your septic system by running chlorinated water down drains!! Your septic system was not designed to handle the large continuous flow of water necessary to remove the chlorine and chlorine is harmful to the beneficial bacteria that make your septic tank function properly. Since chlorine will kill grass and plants, be careful where you run the water outside. Do not run mixture into streams, rivers, etc.
6. When you can no longer smell chlorine in the water, close all taps and faucets and use the system normally.
7. After at least one week, you should have your water retested for the presence of bacteria.