



alpha

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

20 January 2021

Volcano CSD

Attn: Nick Lawson

P O Box 72

Volcano, CA 95689

RE: Water Quality

Work Order: 20K3188

Enclosed are the results of analyses for samples received by the laboratory on 11/24/20 22:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin For Karen L. Lantz

Project Manager



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P O Box 72
Volcano, CA 95689

Project Manager: Nick Lawson
Project: Water Quality
Project Number: 0300016

Reported:
01/20/21 11:55

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
Well No. 1	20K3188-01	Water	11/24/20 10:00	11/24/20 22:40



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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
Well No. 1 (20K3188-01)		Sample Type: Water			Sampled: 11/24/20 10:00				
Metals (Drinking Water) by EPA 200 Series Methods									
Calcium	83 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Iron	13000 ug/L	100	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Magnesium	27 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Potassium	2.0 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Sodium	14 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Metals by EPA Method 200.8 ICP/MS									
Copper	ND ug/L	50	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Manganese	150 ug/L	20	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Silver	ND ug/L	10	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Zinc	ND ug/L	50	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods									
Aggressive Index	12.06 NU	2.00	1	AK04446	11/30/20 11:50	12/04/20 14:08	1551	AWWA	
Bicarbonate	250 mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
Carbonate	ND mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
Hydroxide	ND mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
MBAS, calculated as LAS, mw 340	ND mg/L	0.050	1	AK04373	11/25/20 14:00	11/25/20 15:00	1551	SM5540C	
pH	7.42 pH Units	1.68	1	AK04412	11/24/20 15:35	11/24/20 15:35	2922	SM4500-H+ B	T-14
Specific Conductance (EC)	430 umhos/cm	20	1	AK04495	11/30/20 16:25	11/30/20 16:25	2922	SM2510B	
Total Dissolved Solids	290 mg/L	10	1	AK04407	11/24/20 16:00	11/25/20 15:00	2922	SM2540C	
Total Alkalinity as CaCO3	210 mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
Hardness, Total	317 mg/L	5	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	SM2340B	



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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
Well No. 1 (20K3188-01)									
Anions by EPA Method 300.0									
Chloride	12 mg/L	0.50	1	AK04426	11/24/20 14:57	11/24/20 14:57	2922	EPA 300.0	
Sulfate as SO4	7.8 mg/L	0.50	1	AK04426	11/24/20 14:57	11/24/20 14:57	2922	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 20K3188 Pg of

Report to		Invoice to (if different)				Project Information										Signature below authorizes work under terms stated on reverse side.											
Company: Volcano CSD		Contact:				Project ID: Water Quality					Total Number of Containers per Sample ID	Analysis Request									TAT	TEMP °C					
Attn: Nick Lawson		Email address:				Project No:						CV - General Mineral	CV - TCEC Quantitray									Standard 10 days	Ukiah 2.8				
Address: PO Box 72 Volcano, CA 95689		Address:				PO Number:																RUSH: 5 days	Livermore				
Phone/Fax: 209-304-7628		Phone/Fax:																				48 hours	Elk Grove 2.9C				
Email Address: nlwsn49@gmail.com											Other: days	Petaluma															
Field Sampler - Printed Name & Signature: <i>Nick Lawson / Nilween</i>						Container		Preservative			Matrix					Preapproval required	Carlsbad										
		40ml VOA Vial	Plastic	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Drinking Water	Wastewater	Soil	Other					Notes / DDW Source Codes							
Sample Identification		Sampling																									
		Date	Time																								
✓ WELL NO. 1		11-24	1000	x													5	x									CV - pH, EC, TDS, CL, S04
✓ Well 2		11-24	1000	X							X	X					1	X									
✓ Cleveland Tunnel		11-24	1000	X							X	X					1	X									
✓ Well 1		11-24	1000								X							X									

~~COPY~~

FAXED

Relinquished by <i>Nilween</i>	Received by <i>[Signature]</i>	Date	Time	DDW Write On EDT Transmission?	Yes	No
		11-24	1100			
		11-24-20	1820	State System Number:		
		11-24-20	1900	If "Y" please enter the Source Number(s) in the column above		
		11/24/20	1600	CA Geotracker EDT Report?	Yes	No
		11/24/20	1855	Global ID:		
		11/24/20	2240	EDT to email address:		
				Sampling Company Log Code:		