

TELEPHONE **FACSIMILE**

847/205-6000 847/205-6030

ulligan.

Report Date:

Santa Rosa.

8/11/2006

Page 1 of 2

CERTIFICATE OF ANALYSIS

ANALYSIS NUMBER: 0604203 svel notisting onco (Control Number: 19374 relems and betset itA

James Fisher and Son Inc.

Customer: CLIFF REDIGER proving et al saleber

13340 POINT LAKEVIEW RD

LOWER LAKE CA

Account Number: 04725

1236 Cleveland Avenue

Zip Code: 95457

Customer Account #:

Salesperson RYAN FOGLEMAN

95401

utn 00.501

Nom: \$8.0

707-545-1364

SAMPLE INFORMATION:

Analysis Type Requested Standard A Analysis

Supply/Source: PRIVATE WELL " MCL for Turbidity varies as follows. UNTREATED WATER Condition:

97.2

106.2

(nM) saenspnsM

Analysis Date:

180.1 R 2.0

Sampled: Received:

8/3/2006 8/10/2006

Sampling Point: WELL FAUCET

Application: Household

ANALYSIS INFORMATION:

Turbidity(Method 180.1 R 2. 102.0 NTU Conductivity(Method 120.1 Color(Method 2120C) 372.0 pH(Method 150.1 R 1982)

Turbidity after filtration 113.0 MMHOS/CM Est. TDS by Conductivity Color after Acidification

33.4 **Tannins** <2

Concentrations reported as mg/L (PPM) unless otherwise indicated

CATIONS (Method 200.7)

ANIONS (Method 300.0)

			MCSS make to autobers			(As made and man
	A	s Element	As CaCO3			As Element	As CaCO3
Calcium (Ca)	0.0	5.9	14.8	Chlor	ide (CI)	4.4	6.2
Magnesium (Mg)	0.0	4.5	18.5	Nitrat	e As N	(NO3) <0.5	<1.8
Sodium (Na)	U6-UUG	8.4	18.3	Nitrite	As N (NO2) 0.1	Thes 4.0 lues are t
Potassium (K)	yield d	3.9	tibnoo laoo.5.0 lub		e (SO4		tilw prids <3;1eties
Strontium (Sr)		0.06	0.1	Bicarl	oonate	50.4	41.3
Barium (Ba)		0.0172		Carbo	nate	N.M.	N.M.
Iron (Fe)		0.82	FACTORS	Fluori	de (F)	0.2	0.50
Manganese (Mn)	GPG	< 0.02	2	Silica	(SiO2)	38.4	
	0.8	0.015	Weak Base Fac			32.6%	Sodium
	2.4	0.2	Carbonic Acid			79.3%	Alkalinity
58.5	Mg/L	GPG	Cation Fact Y	Mg/L	GPG	76.1%	Mg/L GPG
Cations (CaCO3)	56.6	3.31	Anions (CaCO3)	52.1	3.05	Hardness (CaCO3)	33 1.9

Additional Tests

Aluminum by ICP *NA = Not Analyzed

574.40ug/L

NM = Not Measured

ND = Not Detected

This report can only be reproduced in its entirety. The results reported here are representative of the sample as received in the laboratory.

Certifications: CA-01133A; IL-000280; NY-11756; WI-399016200; TX-TX269-2003

Base Fact Z

Richard Cook

Manager Analytical Laborator

IA-369





Sampled:

ANALYSIS INFORMATION:

Conductivity(Method 120.1

"NA = Not Analyzed

Analysis Number:

Consumer:

0604203

CLIFF REDIGER

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FEDERAL SAFE DRINKING WATER ACT

All tested parameters exceeding the maximum concentration levels (MCL) established under the

"Federal S	Safe	Drinking	Water	Act"
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"Federal Safe Drinking Water Act"	Parameter	Found	James Fisher ACL
PRIMARY: AS SHALL REWO	Turbidity	102.00 ntu	Santa Rosa utn 0.50
SECONDARY:	Iron (Fe)	0.82 mg/l	Account NuNgm 08.0 725
:# I/IJ00	Aluminum by ICP	0.57 mg/l	0.05 mg/l
	Color	372.00	SAMPLE INFO00.21TION:

* MCL for Turbidity varies as follows:

1. Municipal Direct Filtration	0.5 NTU
2. Municipal Sand Filtration	1.0 NTU
3. Unfiltered Water Supply	5.0 NTU

TYPICAL POST RO DRINKING WATER UNITS

(Concentrations reported as mg/L (PPM) as the element)

Iron (Fe)	0.0		Magnesium (Mg)	0.1
Manganese (Mn)	0.0	esimense otnerwise	Sodium (Na)	0.3
Zinc (Zn)	0.000.0	ANIONS (Mett	Potassium (K)	M) 0.1
Copper (Cu)	0.0	The state of the s	Chloride (CI)	0.2
Nitrate As N (NO3)	0.1	4	Nitrite As N (NO2)	0.0
Sulfate (SO4)	0.0	Chloride (CI)	Fluoride (F)	0.0

These values are typical of new modules on water with a pH of 7-9 at 70-74 F with 500-3000 mg/L total salts operating with 40-70 PSI pressure across the module. Local conditions may yield different results.

N.M. 0.50	.M.M S.O	DI CALC	CULATIO	N FACTORS	0.01725		arlum (Ba)
	38.4	SIO2)	Silica		\$0.0>	GPG	(nM) mg/Lns
Sodium	32.6%			Weak Base Fa	act X	0.5	(10) 8.270
Alkalinity	79.3%			Carbonic Acid	0.2	2.4	41.3
ChloridehoM	76.1%	GPG	Maa	Cation Fact Y		J\013.3	56.5
Carbonic Acid	45.9%	3.05 H	52.1	Silica	8.81 A	1.9	31.84
Monovalent lons	9.0%	CT SHOOTS	1 value	Carbon Dioxide	10.0	0.0	0.0
Silica	42.7%		Tests	Strong Base F	act Z	5.3	90.0

Analysis Date:

Method Dat	te to syltatroassom au	Method	Date
120.1 R 1982 08/	10/06	150.1 R 1982	08/10/06
180.1 R 2.0 08/	10/06	200.7 R 4.4	08/11/06
2120C 08/	10/06	300.0 R 2.1	08/11/06

Sample Analysis Request Culligan International Company Analytical Laboratory

pH – the acid strength of water on a scale of 0 to 14 (neutral = pH 7.0). Values from $7 \rightarrow 0$ are increasingly more acidic; values from $7 \rightarrow 14$ are increasingly more alkaline. The recommended range for drinking water under the U.S. regulations is 6.5 to 8.5.

Conductivity - the relative ability of water to carry an electrical current, used to estimate the total concentration of dissolved ions. [MSUE]

Turbidity – cloudiness in water caused by the dispersion of light by extremely tiny particles. Measured on an arbitrary scale of Nephelometric Turbidity Units (NTUs). The mandatory maximum under U.S. regulations is 0.5 NTU.

Control

Color – the amount of brownish-yellow color from dissolved tannins from vegetation (like tea) and metals (like rust) and their combinations, measured on an arbitrary scale. The recommended maximum under U.S. regulations is 15 CU.

Silica, SiO₂ – a naturally occurring dissolved mineral, which produces a glassy scale in high temperature equipment but is more important in predicting the life of certain water treatment media.

Hydrogen Sulfide, H₂S- a toxic, noxious, corrosive gas that smells like rotten eggs. Bacteria acting on sulfate or organic sulfurcontaining materials in the absence of oxygen produce it. Only "special" water analyses can determine hydrogen sulfide levels.

Total Hardness – the sum of all metal ions which react with soap to inhibit sudsing and form "scum" or "bathtub ring" – mostly Calcium and Magnesium. When heated or evaporated, hard water can cause lime scale that can deposit on sink and shower fixtures and walls and result in loss in efficiency or fuel waste in water heaters, boilers, and cooling systems.

Total Alkalinity – the sum of hydroxide (OH*), carbonate (CO₃**2), and bicarbonate (HCO₃**) ions, which can combine with both acids and bases, which act to buffer water and prevent sudden uncontrolled changes in pH.

Cations – ions (atoms or molecules with an electrical charge) with a positive (+) electrical charge, so named because they go toward the cathode in an electric field. Besides the hardness ions, the main cations in water are sodium, Na*, and potassium, K*.

Anions – ions (atoms or molecules with an electrical charge) with a negative (-) electrical charge, so named because they go toward the anode in an electric field. The main anions in water are hydroxide (OH⁻), carbonate (CO₃⁻²), bicarbonate (HCO₃⁻¹) (which together comprise "alkalinity"), sulfate (SO₄⁻²), nitrate (NO₃⁻¹) and chloride (Cl⁻).

Nitrate/Nitrite, NO₃ NO₂ – important because of toxicity to infants, nitrate comes from fertilizers and animal wastes. Water supplies with high nitrate levels should also be screened for agricultural pesticides and bacterial contamination. The mandatory limit under U.S. regulations is 10 mg/L.

Sulfate, SO₄² – a common mineral component, only rarely occurring at excessive levels, which can cause a temporary diarrhea in visitors who have not become acclimated to it. Recommended U.S. limit, 250 mg/L.

Flouride, F - often added to water to inhibit tooth decay. Mandatory U.S. limits range from 4.0 mg/L in northern regions to 1.4 mg/L in southern regions (where more water in consumed).

Chloride, Cl⁻ – a common mineral component, can be found in elevated levels near seawater and other salt supplies, which can cause min a taste problems and can contribute to corrosion. Recommended U.S. limit, 250 mg/L.

Iron, Fe – cause of metallic taste, rust stains on laundry and porcelain fixtures, and clogging/fouling of equipment. The recommended U.S. limit is 0.3 mg/L.

Manganese, Mn – cause of metallic taste and black stains on laundry and porcelain. Often occurs in combination with iron. The recommended U.S. limit is 0.05 mg/L Mn or a total of 0.3 mg/L of Fe + Mn.

Copper, Cu – cause of green stains on porcelain and fittings, seldom naturally -occurring, usually due to corrosion. The mandatory U.S. "actions level" of 1.3 mg/L is tied to the regulation for lead contamination due to corrosion of plumbing materials.

Zinc, Zn – cause of metallic taste and upset stomach. Due to corrosion of galvanized plumbin g materials. Recommended U.S. limit, 5.0 mg/L.

Units of Concentration used in this Report

NT INVOLVED (IF ANY):

in acceptable condition:

gpg-abbreviation for "grains per gallon" calculated in terms of calcium carbonate equivalents. Multiply by 17.12 to convert gpg into either ppm or mg/L.

ppm-abbreviation for "parts per million." Interchangeable with mg/L.

mg/L-abbreviation for "milligrams per liter." Interchangeable with ppm. (There are one million milligrams in a liter of pure water), ppb-abbreviation for "parts per billion." Interchangeable with µg/L or micrograms per liter.

µg/L-abbreviation for "micrograms per liter." Interchangeable with ppb. (There are a billion micrograms in a liter).

1000 ppb = 1 ppm; $1000 \mu g/L = 1 \text{ mg/L}$



Sample Analysis Request

Control **Culligan International Company Analytical Laboratory**

No 19374

of souley colois of one scale of the local part of the soule of the scale of the sc

7-44 are increasingly more alkaline. The recom 9028-28000 All ,Moordniron the U.S. regulations is 6.5 to 8.5.
SAMPLE SUBMITTED BY: the notion of test and content used to estimate the total concentration of the Hold BY:
Account Number: 09725 CSN Agent Code:
Account Name: Culligar Water of Sonoms Co.
Phone Number: 707-545-1330
FAX Number: 207 - 545 - /364 souther dealer description of the control of the con
E-Mail: KTUGLEMAN & SBC GLOBAL, NET
Person Taking Sample: + LAN Fosteman
Date Sample Taken: 8-3-06 Time Sample Taken: 1-00 pm
Calcium and Magnesium. When bested Nevaporated, hard water can exist lime scale that can deposit on stalt and alcower finite scale that can deposit on stalt and alcower finite scale in water heaters, boilers, and cooling systems. : CONTENTATION :
Customer Name: CLIFF REDIGER (500) street (100) abitrophysical order of the control of the contr
and bases, which act to buffer water and prevent sudden uncontrolled changes in pH.
Customer Account Number: "rous (atoms or molecules with an electrical charge) with a positive (-) electrical charge, so now respective field. Bosides the bandoes from the cutions in cutions in control of the control
Address: 13340 POINT LAKEVIEN Rd. day distribution and a stories
the anode in an elecute field. The main soious in water are hydroxide (OH.), curbonate (CO.), bicarbonate (HCO ₃ .) (which together compares "alkalinete"), suther (SO ₄ .), mirrary (NO ₂ .) and objected (CO.).
City: LOWER LAYE State: CA 7 957753
Customer reported concern: "The decimaters literated better shading treatment and becomes and calculated states of the decimated better the decimated between the decim
U.S. regimmons is 10 mg/L.
Sulfate, SO, 2 — a common mineral component, only rarely occurring at exceedive levels, which can cause a temporary : (IOITAMRO7/III 349/INS) visitors who have not become acclimated to it. Recommended U.S. Innit, 250 mg/L
Mullicipal
Constitution T and a second residence of the second re
Colored Cloudy Colored Odor
Sample Point: Faucet Equipment Other Well FouceT
Application: Household Commercial National Account
Comments:
Manganese, Mm - cause of metallic taste and black stains on laundry and porcelain. Often occurs in combination with iron The recommended U.S. limit is 0.05 mg/L Mn or a rotal of 0.3 mg/L of Fe + Mn. :CREATION - CREATION
Standard Analysis: Standard w/TOC: Scale Analysis:
Hemodialysis Basic: Brine Analysis:
Hemodialysis Complete: Depth Filter Analysis: dealer noisoned of and deametrized benefits affection to because a North Complete.
Resin Analysis: Performed at Rockford Laboratories
Special Analysis: (List Analysis Requested):
For Questions or Special Analysis contact Rick Cook at (847) 205-5925
QUIPMENT INVOLVED (IF ANY): Tomother spring methods of the control of the contro
truet, expression for 'miliarmy per fitor' locarchementals with one. (There are one raillies miliarms in a liter of pure switch.)
AB USE ONLY: Aratil sid subsponding to the side of the
Sample received in acceptable condition: Yes No
Received by: Date: Time:
THIS ANALYSIS WILL NOT DETERMINE WHITHER A WATER IS RAFE FOR HIMAN CONSUMPTION. : noses for N
Disposition of sample:

Litigation samples are not accepted by the laboratory

Customer:

Chillone Roline Please sign:

Culligan International Company