

AT-1807

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Callaway Blue Springs Water Company, Inc.
3120 Ga Hwy 116
Hamilton, GA 31811
Attention: (1022) Water Quality Manager

Date of Issue

04/05/2016

Sophia Liang
EUROFINS EATON
ANALYTICAL

SFL: Sophia.F.Liang

Project Manager



Report: 581836
Project: 1022-CBSW
Group: Spring Source - MPA

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

Laboratory certifies that the test results meet all TNI 2009 and ISO/IEC 17025:2005 requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

* This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
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Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2016
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
California-Fresno- ELAP	2966	New York *	11320
Colorado	Certified	North Carolina	06701
Connecticut	PH-0107	North Dakota	R-009
Delaware	CA 006	Oregon (Primary AB) *	ORELAP 4034
Florida *	E871024	Pennsylvania *	68-565
Georgia	947	Rhode Island	LAO00326
Guam	15-003r	South Carolina	87016
Hawaii	Certified	South Dakota	Certified
Idaho	Certified	Tennessee	TN02839
Illinois *	200033	Texas *	T104704230-14-7
Indiana	C-CA-01	Utah *	CA000062015-8
Kansas *	E-10268	Vermont	VT0114
Kentucky	90107	Virginia *	460260
Louisiana *	LA16003	Washington	C838
Maine	CA0006	West Virginia	9943 C
Maryland	224	-----	-----
Commonwealth of Northern Marianas Is.	MP0004	Wyoming	8TMS-L
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/ Bev/Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbonates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1622.1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Chromogen Chloride (2n)	In House Method (2470)	x		x
Deqant and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli (MTF/EC+MUG)		x		x
E. Coli CFR 141.21(f)(6)(i)				x
E. Coli SM 9223			x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Oiliness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/ Bev/Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxylhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S ²⁻ D		x	
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Acknowledgement of Samples Received

Addr: **Callaway Blue Springs Water Company, Inc.**
 3120 Ga Hwy 116
 Hamilton, GA 31811

Client ID: CDI
 Folder #: 581836
 Project: 1022-CBSW
 Sample Group: Spring Source - MPA

Attr: (1022) Water Quality Manager
 Phone:

Project Manager: Sophia.F.Liang
 Phone:

The following samples were received from you on **March 23, 2016** at **1233**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201603240446	1022-169 Callaway Blue Spring Source	03/22/2016 0845
	@MPA Freight - Return	

Test Description

@MPA -- Microscopic Particulate Analy.

CHAIN OF CUSTODY RECORD

1022-103-13

copied by JP

INVOICE TO/SEND ORIGINAL REPORT TO: Compliance Designs 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 529-4977 Fax (603) 529-4988		CLIENT NAME TO APPEAR ON REPORT: Callaway Blue Springs Water Company, Inc. 3120 Ga Hwy 116 Hamilton GA 31811		LAB USED: MWH Laboratories ORDER # 581836 TURNAROUND TIME: PWS #: STAND/BUT ASAP
PROJECT NAME: MPA Analysis		PROJECT #: 1022		ANALYSIS REQUIRED MPA Analysis
1022-169	3/22/16 8:45 AM	Callaway Blue Spring Source 1	NUMBER OF CONTAINERS 1	
SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS	ANALYSIS REQUIRED
SAMPLER'S SIGNATURE: BELOW: <i>Kenneth Woods</i>		PLEASE PRINT ACCEPTED BY: <i>Kenneth Woods</i>		COMPLIANCE CRITERIA: 50 State Compliance
RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY

TRM# 0201 7759 0243 6350

Temp 3.0" Frozen Blue 14.

MPA (Microscopic Particulate Analysis) Sample Information

Following the Information Collection Rule Laboratory Manual

SAMPLER: PLEASE FILL OUT AND ENCLOSE IN COOLER WITH SAMPLE

Client Utility: Callaway Blue Springs Water Company PWS ID#: _____

Utility Address: 3120 Hwy 116 , Hamilton GA. 31811

Contact for Questions about your sample: _____ Phone Number: _____
Kenneth Worley -706 628-1000

Sampling Information:

Sample ID: Spring Water Source

Start: Initial Meter Reading (circle unit of measurement): GALLONS LITERS FT³

Date: <u>3/21/2016</u>	Time: <u>5:10 PM</u>
Meter Reading: <u>4592</u>	NTU (Turbidity): <u>NR</u>
Temperature: <u>Not Recorded</u>	pH: <u>NR</u>

Stop: Final Meter Reading (circle unit of measurement): GALLONS LITERS FT³

Date: <u>3/22/2016</u>	Time: <u>9:00 AM</u>
Meter Reading: <u>5216</u>	NTU (Turbidity): <u>NR</u>

Check Filter Type and If Chlorine Neutralization:

Filter Type: <u>Filterite</u>	<u>Parker Hannifin</u>
Housing type: <u>Filterite</u>	<u>Parker Hannifin</u>

Total Volume Filtered: *Conversion to Liters*

2,362.08 Liters For readings in gallons: (Final - Initial meter readings) X 3.7854 = Vol.in Liters
or For readings in ft³: (Final - Initial meter readings) X 28.316 = Vol.in Liters

Type of Water for This sample (check which applies):

Raw ground water (sample should be collected prior to treatment): X Other (describe): SPRINGWATER

Sampler Name: (signature)

Kenneth Worley

Samper Name: (print in full)

Kenneth Worley

Date of Shipment:

3/22/2016

FOR ANALYZING LAB ONLY

Condition on Arrival:

send reports, apparatus, and cooler to:

**Sample Receiving
MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016**

MPA (Microscopic Particulate Analysis) Sample Information

Following the Information Collection Rule Laboratory Manual

SAMPLER: PLEASE FILL OUT AND ENCLOSE IN COOLER WITH SAMPLE

NR - Not Required


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Client: Callaway Blue Springs Water Company, Inc.
3120 Ga Hwy 116
Hamilton, GA 31811

Report Date: 04/04/2016

Attention: (1022) Water Quality Manager

Parameter	Method	Reporting Limit	Result
Sample ID: 1022-169 Callaway Blue Spring Source			Sample #: 201603240446
MPA			
Volume Sampled	E 910/9-92-029	1	620
Volume Assayed	E 910/9-92-029	1	100
Amoeba Quant.	E 910/9-92-029	1	ND
Ciliate/Flagellate Quant.	E 910/9-92-029	1	ND
Coccidia/Crypto(w int struct)	E 910/9-92-029	1	ND
Crustacea Quant.	E 910/9-92-029	1	ND
Diatoms Quant.	E 910/9-92-029	1	ND
Dipteran Larvae Quant.	E 910/9-92-029	1	ND
Fine Amorphous Debris Quant.	E 910/9-92-029	1	>200
Fungal Spore Quant.	E 910/9-92-029	1	ND
Giardia Cysts-Presumptive	E 910/9-92-029	1	ND
Insect Parts and Larvae Quant	E 910/9-92-029	1	ND
Large Amorphous Debris Quant.	E 910/9-92-029	1	>200
Minerals Quant.	E 910/9-92-029	1	>200
Miscellaneous Algae Quant.	E 910/9-92-029	1	ND
Mites Quant.	E 910/9-92-029	1	ND
Nematode Quant.	E 910/9-92-029	1	ND
Other Debris-See Comments	E 910/9-92-029	1	ND
Plant Debris Quant.	E 910/9-92-029	1	ND
Plant Pollen Quant.	E 910/9-92-029	1	1.0
Rotifers Quant.	E 910/9-92-029	1	ND
Diatoms, Rel.Risk Factor	E 910/9-92-029		0
Insect Parts/Larv,Rel.Risk F	E 910/9-92-029		0
Misc.Algae, Rel.Risk Factor	E 910/9-92-029		0
Plant Debris,Rel.Risk Factor	E 910/9-92-029		0
Rotifers, Rel.Risk Factor	E 910/9-92-029		0
Relative Risk Factor, Coccidia	E 910/9-92-029		0
Relative Risk Factor, Giardia	E 910/9-92-029		0
Relative Risk Factor, TOTAL	E 910/9-92-029		0
Risk of Surface Water Contamination	E 910/9-92-029		LOW



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Callaway Blue Springs Water Company, Inc.
(1022) Water Quality Manager
3120 Ga Hwy 116
Hamilton, GA 31811

Folder Comments

Using EPA Method 910/9-92-029, the methodology's numerical scoring for indication of risk of ground water being under the influence of surface water falls in 3 different categories. Low risk is a numerical score of 9 or less. Moderate risk is a score of 10-19. High risk is 20 or above. Certain bio-indicators may be associated with surface water. The bio-indicators observed in the samples are assigned a specific risk factor depending on their importance as a health risk factor and the weight of this determines the risk of surface water contamination.

