Heritage Well SERVICE

PO Box 391578 Anza, CA 92539 Lic. 813456 C-55, C-57
(951) 763-2210 Office (951) 602-6320 Fax
heritagewellservice@yahoo.com www.heritagewellservice.com

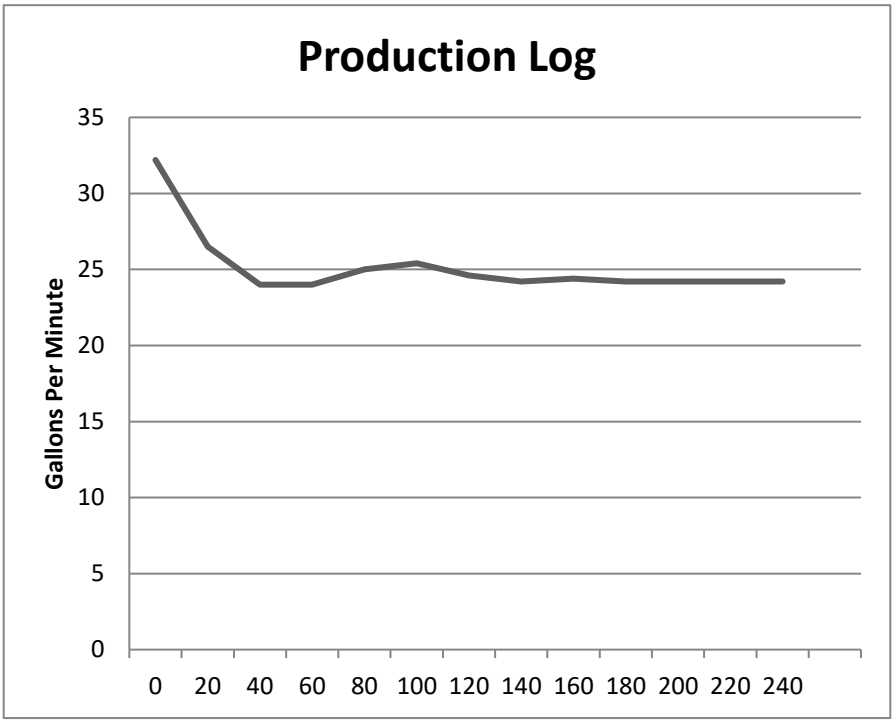
WELL INSPECTION

		Report No.	**2082**
Customer:	Larry Markham	Date:	4/8/2021
Telephone:	909-322-8482	Email:	lrm@markhamds.com
Site Address:			
Well Address:	56475 Apple Canyon Rd.Mountain Center, CA.92561		
APN:	568-170-021	GPS Coordinates:	N 33.675918 W -116.680164
Realtor:	N/A	Email:	
Escrow:	N/A	Email:	

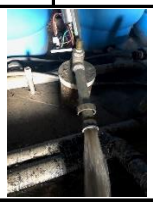
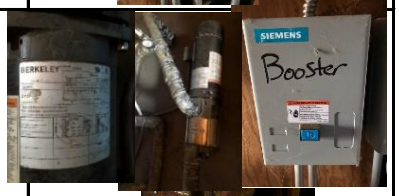
Well Production Information					
Observed Total Production:				6291	Gallons
Average Yield for Pumping Duration:				24.2	GPM*
Final Observed Yield Rate:				24.2	GPM*
Pumping Duration:				120	Minutes
Pump Broke Suction During Test:	**YES**		**NO**	X	

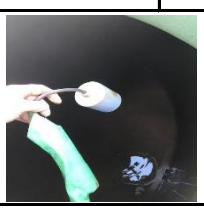
Due to the unknown nature of groundwater and used pumping equipment, this inspection/certifcation does in no way warranty the condition of the well or its equipment beyond the date of this inspection. The certification reflects the well/well system on the date of the inspection only

WELL PRODUCTION LOG		
MINUTES	AMPS	GPM
0	11.3	32.2
20	11.4	26.5
40	11.3	24
60	11.3	24
80	11.3	25
100	11.3	25.4
120	11.3	24.6
140	11.3	24.2
160	11.2	24.4
180	11.3	24.2
200	11.4	24.2
220	11.3	24.2
240	11.3	24.2



Specializing in:
Well Drilling - Submersible Booster Pumps - Storage Tanks - Well Certifications - Filtration - Well Cleaning

Part:	Data:	F	D	NO	Picture
	F= Functional	D= Deficient	NO= Not Observed/Not Present		
Water Use:	Potable Water	X			
Well Motor:	2 HP 230V 1 PH	X			
Well Pump:	WT1820 installed 4/2015 by Heritage well	X			
Wire Size:	#10	X			
Pump Saver:	233 Pump Saver set @ 41 mins	X			
Booster Pump:	2 HP Berekley Booster			X	
Pressure Tank(s):	3-85 Gallon PressureTank	X			
Storage Tank(s):	1-5000 Gallon Poly Tank	X			
Filter/Plumbing:	1 1/4" Galv & PVC	X			

Part:	N	F	D	NO	Picture
	F= Functional	D= Deficient	NO= Not Observed/Not Present		
Float:	Electric	X			 
System Pressure:	unknown				
Pressure Switch:	60/80	X			  
Electrical Equipment:	2 Hp Control Box	X			     
Well Casing:	8 5/8" Steel	X			 

Well Water Condition:						
Sulfur Odor:		Yes	X	No	Comments:	N/A
Iron Visible:		Yes	X	No	Comments:	N/A
Samples Taken:	n/a					
Water Testing Information (If Applicable):			Babcock & Sons, Inc. 951-653-3351			

Comments About the System:
System is aged but functional. Booster pump functionality could not be verified due to lack of water in tank. If customer would like a reinspection the fee is $125 and can be scheduled once the tank is full.

Dated: 4/8/2021

By: Eric J. Haley, Owner/Operator

Eric J. Haley

Specializing in:

Well Drilling - Submersible Booster Pumps - Storage Tanks - Well Certifications - Filtration - Well Cleaning

NEW HOMEOWNER ORIENTATION

This certificate entitles the new homeowner for this property to a New Homeowner Orientation at a rate of ***$100.00****,*
$25.00 off the regular price of $125.00

Once you have closed escrow, please call 951-763-2210 to schedule an appointment with us.

During your orientation we will go over proper well maintenance, the set-up and inner-workings of your well system and basic tips for equipment longevity.

Specializing in:
Well Drilling - Submersible Booster Pumps - Storage Tanks - Well Certifications - Filtration - Well Cleaning

BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Heritage Well Service
Contact: Megan Haley
Address: PO Box 391578
Anza, CA 92539

Report Date: 03-Aug-2021

Analytical Report: Page 1 of 4
Project Name: Heritage Well-DW
Project Number: 56475 Apple Canyon

Work Order Number: C1G1529

Received on Ice (Y/N): Yes Temp: 15 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
C1G1529-01	56475 Apple Canyon ---ROUTINE---	Water	07/13/21 08:00	Michael Jupp	07/13/21 14:28	M. Jupp

BABCOCK Laboratories, Inc.
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Client Name: Heritage Well Service
Contact: Megan Haley
Address: PO Box 391578
Anza, CA 92539

Report Date: 03-Aug-2021

Project Name: Heritage Well-DW
Project Number: 56475 Apple Canyon

Work Order Number: C1G1529

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

C1G1529-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
56475 Apple Canyon	Water	07/13/21 08:00	07/13/21 14:28

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Anions							
Nitrate as N	0.25	0.20	mg/L	EPA 300.0	07/14/21 18:30	KJN	PMCL4
Fluoride	0.61	0.10	mg/L	EPA 300.0	07/14/21 18:30	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	07/14/21 18:30	KJN	PMCL5
General Inorganics							
Total Cyanide	ND	100	ug/L	SM 4500CN E	07/19/21 10:34	KAA	
Perchlorate	ND	2.0	ug/L	EPA 314.0	07/16/21 01:18	KJN	
Metals and Metalloids							
Aluminum	ND	50	ug/L	EPA 200.7	07/19/21 18:48	HRL	
Antimony	ND	6.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	
Arsenic	6.8	2.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	PMCL6
Barium	ND	20	ug/L	EPA 200.7	07/19/21 18:48	HRL	
Beryllium	ND	1.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	
Cadmium	ND	1.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	07/23/21 11:49	AZP	
Lead	ND	5.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	PMCL3
Mercury	ND	1.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	
Nickel	ND	10	ug/L	EPA 200.7	07/19/21 18:48	HRL	
Selenium	ND	5.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	
Silver	ND	10	ug/L	EPA 200.8	07/16/21 18:52	AJH	
Thallium	ND	1.0	ug/L	EPA 200.8	07/16/21 18:52	AJH	

Client Name: Heritage Well Service
Contact: Megan Haley
Address: PO Box 391578
Anza, CA 92539

Report Date: 03-Aug-2021

Project Name: Heritage Well-DW

Project Number: 56475 Apple Canyon

Work Order Number: C1G1529

Received on Ice (Y/N): Yes Temp: 15 °C

Notes and Definitions

PMCL3	The State and Federal Action Level for Lead = 15 ug/L.
PMCL4	The State and Federal MCL for Nitrate-N = 10 mg/L.
PMCL5	The State and Federal MCL for Nitrite-N = 1 mg/L. (1000 ug/L)
PMCL6	The State and Federal MCL for Arsenic = 10 ug/L.
ND:	Analyte NOT DETECTED at or above the Method Detection Limit **(if MDL is reported)**, otherwise at or above the Reportable Detection Limit (RDL)
NR:	Not Reported
RDL:	Reportable Detection Limit
MDL:	Method Detection Limit
* / ''' :	NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Cindy A. Waddell

cc:

E-SHORT_NO ALIAS.RPT

BABCOCK Laboratories, Inc.
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6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information Record

Client: HERITAGE WELL | Contact: MEGAN HALEY | Fax No. 9516026330

Phone No. 9517632210 | email: HERITAGEWELLSERVICE@SMAIL

Project Name: 56475 APPLE CANYON | Turn Around Time: Routine *72 Hour Rush *48 Hour Rush *24 Hour Rush

Project Location: | *Lab TAT Approval: By: *Additional Charges Apply

Additional Reporting Requests: Include QC Data Package: ☐ Yes ☐ No; FAX Results: ☐ Yes ☐ No; Email Results: ☐ Yes ☐ No; State EDT: ☐ Yes ☐ No (Include Source Number in Notes)

Sampler Information
Name: MICHAEL JAP
Employer: HERITAGE
Signature: Michael Jap

Sample ID	Date	Time	# of Containers & Preservatives: Unpreserved	H_2SO_4	HCl	HNO_3	$Na_2S_2O_3$	NaOH	NaOH/Zn Acetate	NH_4Cl	PDC	Total # of Containers	Sample Type: Routine	Resample	Special	Analysis Requested: GROSS ALPHA	RADIOACTIVITY	URANIUM	RADIUM A-060	GENERAL	INORGANIC	Matrix	Notes
56475 APPLE CANYON	7/13/21	8:00	5			1		1				7	X			X		X	X	X			

Matrix: DW = Drinking Water; WW = Waste Water; GW = Ground Water; S = Source; SG = Sludge; L = Liquid; M = Miscellaneous

Notes: *sample ID on bottle states "56475 Apple Valley" JLH 7/13/2021

Relinquished By (sign)	Print Name / Company	Date / Time	Received By (sign)	Print Name / Company
Michael Jap	MJAP / HERITAGE	7/13/21 14:30		James Villegas / ESB

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. *Terms and Conditions.*

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria T6#27

Sample(s) Submitted on Ice? (Yes) No
Custody Seal(s) Intact? Yes No (NA)
Sample(s) Intact? (Yes) No
Temperature: 15 °C ☐ Cooler Blank

Sample meets laboratory acceptance criteria? (Yes) No
Permission to continue: Yes No
Deviation/Notes:
Signature/Date:

C1G1529
Rc'd: 07/13/2021 14:28
JLH Spooler

Lo

Page ____ of ____

Rev. 6/16

BABCOCK Laboratories, Inc.
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Client Name: Heritage Well Service
Contact: Eric Haley
Address: PO Box 391578
Anza, CA 92539

Report Date: 23-Aug-2021

Analytical Report: Page 1 of 2
Project Name: Heritage Well - Radio
Project Number: 56475 Apple Canyon

Work Order Number: C1G1572

Received on Ice (Y/N): Yes Temp: 15 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
C1G1572-01	56475 Apple Canyon -- -ROUTINE---	Water	7/13/21 8:00	M. Jupp	7/13/21 14:28	M. Jupp

Note: Gross Alpha, Uranium, and Radium analyses were subcontracted to FGL Environmental.

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Cindy A. Waddell

cc:

e-Case Narrative+ COC.rpt

mailing
P.O. Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P (951) 653-3351
F (951) 653-1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119

BABCOCK Laboratories, Inc.
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Client Name: Heritage Well Service
Contact: Eric Haley
Address: PO Box 391578
Anza, CA 92539

Report Date: 23-Aug-2021

Analytical Report: Page 2 of 2
Project Name: Heritage Well - Radio

Project Number: 56475 Apple Canyon

Work Order Number: C1G1572

Received on Ice (Y/N): Yes Temp: 15 °C

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6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information Record

Client: HERITAGE WELL | Contact: MEGAN HALEY | Fax No. 9516026330
Phone No. 9517632210 | email: HERITAGEWELLSERVICE@SMAIL
Project Name: 56475 APPLE CANYON | Turn Around Time: Routine *72 Hour Rush *48 Hour Rush *24 Hour Rush
Project Location: | *Lab TAT Approval: By: *Additional Charges Apply

Additional Reporting Requests: Include QC Data Package: ☐ Yes ☐ No; FAX Results: ☐ Yes ☐ No; Email Results: ☐ Yes ☐ No; State EDT: ☐ Yes ☐ No (Include Source Number in Notes)

Sampler Information: Name: MICHAEL JIPP; Employer: HERITAGE; Signature: Michael Jipp

Sample ID	Date	Time	# of Containers & Preservatives: Unpreserved	H_2SO_4	HCl	HNO_3	NaS_2O_3	NaOH	NaOH/Zn Acetate	NH_4Cl	PDC	Total # of Containers	Sample Type: Routine	Resample	Special	Analysis Requested: Gross Alpha	Radioactivity Uranium	Radium A-228	General Inorganic	Matrix	Notes
56475 APPLE CANYON	7/13/21	8:00	5		1		1					7	X			X	XX		X		

DW = Drinking Water; WW = Waste Water; GW = Ground Water; S = Source; SG = Sludge; L = Liquid; M = Miscellaneous

Relinquished By (sign)	Print Name / Company	Date / Time	Received By (sign)	Print Name / Company
Michael Jipp	MJIPP / HERITAGE	7/13/21 14:30		James Villegas / ESB

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. *Terms and Conditions.*

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria T6#27

Sample(s) Submitted on Ice? (Yes) No
Custody Seal(s) Intact? Yes No (NA)
Sample(s) Intact? (Yes) No
Temperature: 15 °C ☐ Cooler Blank

Sample meets laboratory acceptance criteria? (Yes) No
Permission to continue: Yes No
Deviation/Notes:
Signature/Date:

C1G1572
Rc'd: 07/13/2021 14:28
SNL

Rev. 6/16

mailing
P.O. Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P (951) 653-3351
F (951) 653-1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119

SUBCONTRACT ORDER Printed: 7/14/2021 13:45

Babcock Laboratories, Inc.

C1G1572

2110048

SENDING LABORATORY:

Babcock Laboratories, Inc.
6100 Quail Valley Court
Riverside, CA 92507-0704
Phone: (951) 653-3351
Fax: (951) 653-1662
Project Manager: Cindy A. Waddell

RECEIVING LABORATORY:

FGL Environmental, Inc. - Subcontracts
853 Corporation Street
Santa Paula, CA 93060
Phone :(805) 392-2000
Fax: (805) 525-4172

NO EDT Required

System Name: Heritage Well Service
Sampler: Michael Jupp
Sampler Employed By: Heritage Well Service

Analysis	Due	Expires Regulatory Days Past Date Sampled	Laboratory ID	Comments
Sample ID: C1G1572-01 **Water**		**Sampled: 07/13/21 08:00**	**56475 Apple Canyon**	***Proj.No.:*56475 Apple Canyon**
Subout	08/06/21 23:59	07/23/21 08:00	Report Radium A-080	
Radio-Uranium	08/06/21 23:59	01/09/22 08:00		
Radio-Gross Alpha	08/06/21 23:59	01/09/22 08:00		
Containers Supplied:				
Quart Poly - HNO3 (A)	Quart Poly - HNO3 (B)	Quart Poly - HNO3 (C)		

Tracking No.
512705847248

All Containers Intact: _____ Yes _____ No Samples Preserved Properly: _____ Yes _____ No

Samples Received at _____ oC Sample Lables / COC Agree: _____ Yes _____ No Custody Seals Present: _____ Yes _____ No

Please forward all acknowledgements of sample receipt, final reports and invoices to data@babcocklabs.com
NO HARDCOPIES PLEASE.

Released By	Date	Received By	Date
FedEx	7.22.21		
Released By	Date	Received By	Date
	7/26/21	CMB	7/26/21 10:45

RPT

Condition Upon Receipt (Attach to COC)

Sample Receipt at SP:

1. Number of ice chests/packages received: **1**
2. Shipper tracking numbers **512705847248**
3. Were samples received in a chilled condition?
   Temps: **RRT** / _____ / _____ / _____ / _____ / _____ / _____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? **Yes** No N/A
6. Verify sample date, time, sampler **Yes** No N/A
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) **Yes** No
8. Were sample custody seals intact? Yes No **N/A**

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? **Yes** No
2. Did bottle labels correspond with the client's ID's? **Yes** No
3. Were all bottles requiring sample preservation properly preserved? Yes No **N/A** **FGL**
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No **N/A**
5. Were all analyses within holding times at time of receipt? **Yes** No
6. Have rush or project due dates been checked and accepted? Yes No **N/A**

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by: Reviewed and Approved By **Alyssa P. Bavero** Digitally signed by Alyssa P. Bavero Title: Sample Receiving Date: 07/26/2021-12:48:45

Discrepency Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

(2000014)
Babcock Laboratories, Inc.
SP 2110048
APB-07/26/2021-12:48:45

August 19, 2021

Babcock Laboratories, Inc.
P.O. Box 432
Riverside, CA 92502

Lab ID : SP 2110048
Customer : 2-14

Laboratory Report

Introduction: This report package contains total of 6 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
C1G1572-01	07/13/2021	07/26/2021	SP 2110048-001	W

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived at room temperature. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

200.8	07/28/2021:211626 All analysis quality controls are within established criteria
	07/28/2021:208567 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573)

Radio QC

900.0	08/06/2021:212078 All analysis quality controls are within established criteria
	07/29/2021:208593 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573)
903.0	08/19/2021:212876 All analysis quality controls are within established criteria
	08/08/2021:208988 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573)

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 19, 2021 Lab ID : SP 2110048
Babcock Laboratories, Inc. Customer : 2-14

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:MKH

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2021-08-19

August 19, 2021

Babcock Laboratories, Inc.
P.O. Box 432
Riverside, CA 92502

Lab ID : SP 2110048-001
Customer ID : 2-14

Sampled On : July 13, 2021-08:00
Sampled By : Michael Jupp
Received On : July 26, 2021-10:45
Matrix : Water

Description : C1G1572-01
Project : C1G1572

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation Method	Sample Preparation Date/ID	Sample Analysis Method	Sample Analysis Date/ID
Metals, Total								
Uranium	0.90	0.67	pCi/L		200.8	07/28/21:208567	200.8	07/28/21:211626

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 19, 2021

Babcock Laboratories, Inc.
P.O. Box 432
Riverside, CA 92502

Lab ID : SP 2110048-001
Customer ID : 2-14

Sampled On : July 13, 2021-08:00
Sampled By : Michael Jupp
Received On : July 26, 2021-10:45
Matrix : Water

Description : C1G1572-01
Project : C1G1572

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Gross Alpha	2.03 ± 1.19	1.18	pCi/L	15/5	900.0	07/29/21-08:47 2P2108593	900.0	08/06/21-13:03 2A2112078
Total Alpha Radium (226)	0.364 ± 0.189	0.410	pCi/L		903.0	08/08/21-14:20 2P2108988	903.0	08/19/21-15:17 2A2112876

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

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August 19, 2021 Lab ID : SP 2110048
Babcock Laboratories, Inc. Customer : 2-14

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Uranium	200.8	(CH 2175836-006)	MS	ug/L	5.000	98.1 %	75-125	
			MSD	ug/L	5.000	102 %	75-125	
			MSRPD	ug/L	5.000	3.5%	≤20	
	200.8	07/28/21:211626AC	CCV	ppb	120.0	93.8 %	90-110	
			CCB	ppb		0.003	0.2	
			CCV	ppb	120.0	95.0 %	90-110	
			CCB	ppb		0.004	0.2	

Definition

CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

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Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Alpha	900.0	08/06/21:212078JCA	CCV	cpm	7703	40.6 %	35-47	
			CCB	cpm		0.100	0.17	
Gross Alpha	900.0	07/29/21:208593jca	Blank	pCi/L		0.16	3	
			LCS	pCi/L	201.1	94.3 %	75-125	
			MS	pCi/L	201.1	113 %	60-140	
		(SP 2110040-001)	MSD	pCi/L	201.1	119 %	60-140	
			MSRPD	pCi/L	201.1	5.2%	≤30	
Alpha	903.0	08/19/21:212876JCA	CCV	cpm	7694	40.6 %	37-46	
			CCB	cpm		0.100	0.17	
Total Alpha Radium (226)	903.0	08/08/21:208988emv	RgBlk	pCi/L		0.05	2	
			LCS	pCi/L	23.31	59.9 %	52-107	
			BS	pCi/L	23.31	56.6 %	43-111	
			BSD	pCi/L	23.31	57.4 %	43-111	
			BSRPD	pCi/L	23.31	1.4%	≤35.5	

Definition

CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
RgBlk	: Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
BS	: Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD	: Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
BSRPD	: BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.