

January 25, 2021

Meadowlark Ranches Mutual Water Co.
 Attn: Mike Hadley
 P.O. Box 606
 Santa Ynez, CA 93460-0606

Lab ID : SP 2017785
 Customer : 2-21676

Laboratory Report

Introduction: This report package contains total of 8 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.
 Sample Results (4 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
Well #4 (Indian Way) Active	12/23/2020	12/23/2020	SP 2017785-001	DW
Well #2 Active	12/23/2020	12/23/2020	SP 2017785-002	DW
Well #3 Standby	12/23/2020	12/23/2020	SP 2017785-003	DW

Sampling and Receipt Information: All samples were performed by FGL using the following methods (where applicable):

Bacteriological Sampling - SOP:200900141
 Grab sampling for liquids - SOP:200900137
 Composite sampling for liquids - SOP:200900139
 Grab sampling for solids - SOP:200900142
 Composite sampling for solids - SOP:200900143

All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. 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	12/24/2020:220498 All analysis quality controls are within established criteria.
	12/24/2020:215086 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

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Radio QC

900.0	01/06/2021:200207 All analysis quality controls are within established criteria.
	12/28/2020:215116 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except: The following note applies to Gross Alpha: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
Ra - 05	01/17/2021:200911 All analysis quality controls are within established criteria.
	01/15/2021:200206 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

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:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2021-01-25

INORGANIC CHEMICALS ANALYSIS

Date of Report : January 25, 2021 Sample ID : SP 2017785-001
 Laboratory Name : **FGL Environmental** Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
 FGL Title: Laboratory Director
 Date: 2021-01-25
 Sampled On : 12/23/2020-09:28
 Received On : 12/23/2020-15:10 Sampler : Matthew Jimenez
 Completed On : 01/13/2021-10:57 Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-007 **EDT**

Name Or Number of Sample Source : WELL #4 (INDIAN WAY) ACTIVE

User ID	: 42C	Station Number	: 4200612-007
Date/Time of Sample	: 2012230928	Laboratory Code	: 5 8 6 7
	YYMMDDTTTT	Lab Location	: Santa Paula, CA
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

ADDITIONAL INORGANIC


TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
200.8	20.0	pCi/L	Uranium	28012	1.91	0.7

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR



INORGANIC CHEMICALS ANALYSIS

Date of Report : January 25, 2021 Sample ID : SP 2017785-002

Laboratory Name : **FGL Environmental** Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2021-01-25

Sampled On : 12/23/2020-09:15

Received On : 12/23/2020-15:10 Sampler : Matthew Jimenez

Completed On : 01/13/2021-10:57 Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-001 **EDT**

Name Or Number of Sample Source : WELL #2 ACTIVE


User ID	: 42C	Station Number	: 4200612-001
Date/Time of Sample	: 2012230915	Laboratory Code	: 5 8 6 7
	YYMMDDTTTT	Lab Location	: Santa Paula, CA
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

ADDITIONAL INORGANIC

TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
200.8	20.0	pCi/L	Uranium	28012	1.87	0.7

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report	: January 25, 2021	Sample ID	: SP 2017785-003
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2021-01-25
Sampled On	: 12/23/2020-09:45		
Received On	: 12/23/2020-15:10	Sampler	: Matthew Jimenez
Completed On	: 01/13/2021-10:57	Employed By	: FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-006 **EDT**

Name Or Number of Sample Source : WELL #3 STANDBY

User ID	: 42C	Station Number	: 4200612-006
Date/Time of Sample	: 2012230945	Laboratory Code	: 5 8 6 7
	: YYMMDDTTTT	Lab Location	: Santa Paula, CA
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

ADDITIONAL INORGANIC


TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
200.8	20.0	pCi/L	Uranium	28012	1.11	0.7

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

RADIO CHEMICALS ANALYSIS

Date of Report	: January 25, 2021	Sample ID	: SP 2017785-003
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2021-01-25
Sampled On	: 12/23/2020-09:45		
Received On	: 12/23/2020-15:10	Sampler	: Matthew Jimenez
Completed On	: 01/21/2021-11:59	Employed By	: FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-006 **EDT**
 Name Or Number of Sample Source : WELL #3 STANDBY

User ID	: 42C	Station Number	: 4200612-006
Date/Time of Sample	: 2012230945	Laboratory Code	: 5 8 6 7
	: YYMMDDTTTT	Lab Location	: Santa Paula, CA
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

RADIOLOGICAL

TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
900.0	15 <input type="checkbox"/>	pCi/L	Gross Alpha	01501	2.98	3
900.0		pCi/L	Gross Alpha Counting Error	01502	± 0.892	
900.0		pCi/L	Gross Alpha MDA95	A-072	1.01	
Ra - 05	2	pCi/L	Radium 228	11501	0.227	1
Ra - 05		pCi/L	Radium 228 Counting Error	11502	± 0.654	
Ra - 05		pCi/L	Radium 228 MDA95	A-075	0.400	

Including Radium But excluding Uranium. (Ref. Title 22 sec. 64442.)
 MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Uranium	200.8	(SP 2017473-001)	MS	ug/L	5.000	118 %	75-125	
			MSD	ug/L	5.000	120 %	75-125	
MSRPD			ug/L	5.000	0.6%	≤20		
	200.8	12/24/20:220498AC	CCV	ppb	120.0	97.2 %	90-110	
CCB			ppb		0.002	0.2		
CCV			ppb	120.0	95.9 %	90-110		
CCB			ppb		0.001	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	01/06/21:200207JCA	CCV CCB	cpm cpm	7843	40.0 % 0.0600	35-47 0.14	
Gross Alpha	900.0	12/28/20:215116iwc (SP 2017832-001)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 201.1 402.2 402.2 402.2	 0.34 89.0 % 48.7 % 47.0 % 3.4%	 3 75-125 60-140 60-140 ≤30	 435 435
Beta	Ra - 05	01/17/21:200911emv	CCV CCB	cpm cpm	7836	90.7 % 0.4400	84-94 0.48	
Ra 228	Ra - 05	01/15/21:200206emv	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 12.30 12.30 12.30 12.30	 0.19 70.7 % 86.7 % 79.9 % 0.84	 3 65-108 75-125 75-125 ≤3	
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.								
LRS : Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations.								
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.								
Explanation								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								



				1923:12/21/2020				TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information										L215													
Client: Meadowlark Ranches Mutual Water Co. Address: Attn: Mike Hadley P.O. Box 606 Santa Ynez, CA 93460-0606 Phone: (805)688-3132 Fax: Contact Person: Mike Hadley Project Name: Water Quality - Radio Purchase Order Number: Quote Number:														Method of Sampling: Composite(C) Grab(G)		Type of Sample **SEE REVERSE SIDE**		Potable(P) Non-Potable(NP) Ag Water(AgW)		Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)		Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)		Metals, Total-U 250ml(P)-HNO3		Sampling-Sampling Fee		Radio Chemistry-Gross Alpha 32oz(P)		Radio Chemistry-Ra 228 32oz(P)-HNO3	
Sampler(s) <i>M. Jimenez</i>				Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: <u>1/1</u> Time: <u> </u> / <u> </u>				Lab Number: SP <i>201705</i> 2-21676																							
Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling	Type of Sample	Potable(P)	Non-Potable(NP)	Ag Water(AgW)	Bacti Type	Bacti Reason	Metals, Total-U 250ml(P)-HNO3	Sampling-Sampling Fee	Radio Chemistry-Gross Alpha 32oz(P)	Radio Chemistry-Ra 228 32oz(P)-HNO3																	
1	Well #4 (Indian Way) Active	<i>12/23/2020</i>	<i>9:28</i>	G	DW						1	X																			
2	Well #2 Active		<i>9:15</i>	G	DW						1																				
3	Well #3 Standby	<i>↓</i>	<i>9:45</i>	G	DW						1	X	1	2																	
Remarks:				Relinquished		Date:		Time:		Relinquished		Date:		Time:		Relinquished		Date:		Time:											
				<i>[Signature]</i>		<i>12/23/2020</i>		<i>15:10</i>																							
				Received By:		Date:		Time:		Received By:		Date:		Time:		Received By:		Date:		Time:											
				<i>[Signature]</i>		<i>12/23/2020</i>		<i>15:10</i>																							

Corporate Offices & Laboratory
 853 Corporation Street
 Santa Paula, CA 93060
 Phone: (805) 392-2000
 Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
 2500 Stagecoach Road
 Stockton, CA 95215
 Phone: (209) 942-0182
 Fax: (209) 942-0423

Office & Laboratory
 563 E. Lindo
 Chico, CA 95926
 Phone: (530) 343-5818
 Fax: (530) 343-3807

[Handwritten initials]

Office & Laboratory
 3442 Empresa Drive, Suite D
 San Luis Obispo, CA 93401
 Phone: (805) 783-2940
 Fax: (805) 783-2912

Office & Laboratory
 9415 W. Goshen Avenue
 Visalia, CA 93291
 Phone: (559) 734-9473
 Fax: (559) 734-8435

Condition Upon Receipt (Attach to COC)

Sample Receipt at SP:

- 1. Number of ice chests/packages received: 1
- 2. Shipper tracking numbers _____
- 3. Were samples received in a chilled condition?
Temps: ROI / 4c / _____ / _____ / _____ / _____ / _____
- 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

Inez Covarrubias



Digitally signed by Inez Covarrubias
Title: Sample Receiving
Date: 12/24/2020-08:29:20

Discrepancy 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: _____

(2021676)
Meadowlark Ranches Mutual Water
Co.
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