

October 10, 2023

Lab No. : SP 2316022

Customer No. : 2021676

Meadowlark Ranches Mutual Water Co.

Attn: Mike Hadley
 P.O. Box 606
 Santa Ynez, CA 93460-0606

Laboratory Report

Introduction: This report package contains a total of 7 pages divided into 3 sections:

- Case Narrative (1 page) : 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 No.	Matrix
WELL 2	09/20/2023	09/20/2023	SP 2316022-001	DW
WELL 3	09/20/2023	09/20/2023	SP 2316022-002	DW
WELL 4	09/20/2023	09/20/2023	SP 2316022-003	DW

Sampling and Receipt Information: All samples were performed by FGL.

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 associated Chain of Custody and Condition Upon Receipt Form.


Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 200.8	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 900.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA RA-05	Preparation and analysis performed by FGL-Santa Paula (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 and in the QC Section. 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. This report shall not be reproduced except in full, without the written approval of the laboratory.


KD: SVH

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-10-10

RADIO CHEMICALS ANALYSIS

Date of Report : October 10, 2023 Sample ID : SP 2316022-001

Laboratory Name : **FGL Environmental**
 Sampled On : 09/20/2023-09:35
 Received On : 09/20/2023-15:00
 Completed On : 10/10/2023-08:04

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-10-10

Sampled By : Matthew Jimenez
 Employed By : FGL Environmental

Sample Point Information

EDT

PS Code : CA4200612_002_002
 Sample Point Name : WELL 2
 Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

RADIOLOGICAL

Method Code	Chemicals	Analyte Code	Result	Units	Counting Error +/-	MDA95	MCL	DLR	ELAP
EPA RA-05	Radium 228	4030	0.000	pCi/L	0.965	0.0500		1	1573

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

INORGANIC CHEMICALS ANALYSIS

Date of Report : October 10, 2023 Sample ID : SP 2316022-002

Laboratory Name : **FGL Environmental**
 Sampled On : 09/20/2023-09:15
 Received On : 09/20/2023-15:00
 Completed On : 10/10/2023-08:04

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-10-10

Sampled By : Matthew Jimenez
 Employed By : FGL Environmental

Sample Point Information

EDT

PS Code : CA4200612_003_003
 Sample Point Name : WELL 3
 Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

ADDITIONAL INORGANIC

Method Code	Chemicals	Analyte Code	Result	Units	MCL	DLR	ELAP
EPA 200.8	Uranium	4006	1.11	pCi/L	30	1	1573

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

RADIO CHEMICALS ANALYSIS

Date of Report : October 10, 2023 Sample ID : SP 2316022-002

Laboratory Name : **FGL Environmental**
 Sampled On : 09/20/2023-09:15
 Received On : 09/20/2023-15:00
 Completed On : 10/10/2023-08:04

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-10-10

Sampled By : Matthew Jimenez
 Employed By : FGL Environmental

Sample Point Information

EDT

PS Code : CA4200612_003_003
 Sample Point Name : WELL 3
 Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

RADIOLOGICAL

Method Code	Chemicals	Analyte Code	Result	Units	Counting Error +/-	MDA95	MCL	DLR	ELAP
EPA 900.0	Gross Alpha	4109	1.66	pCi/L	0.627	0.831	15	3	1573
EPA RA-05	Radium 228	4030	0.308	pCi/L	1.090	0.0504		1	1573

MCL - Maximum Contaminant Level,

DLR - Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

RADIO CHEMICALS ANALYSIS

Date of Report : October 10, 2023 Sample ID : SP 2316022-003

Laboratory Name : **FGL Environmental**
 Sampled On : 09/20/2023-09:45
 Received On : 09/20/2023-15:00
 Completed On : 10/10/2023-08:04

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-10-10

Sampled By : Matthew Jimenez
 Employed By : FGL Environmental

Sample Point Information

EDT

PS Code : CA4200612_004_004
 Sample Point Name : WELL 4
 Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

RADIOLOGICAL

Method Code	Chemicals	Analyte Code	Result	Units	Counting Error +/-	MDA95	MCL	DLR	ELAP
EPA RA-05	Radium 228	4030	0.603	pCi/L	1.160	0.0497		1	1573

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

October 10, 2023

Meadowlark Ranches Mutual Water Co.

Lab No. : SP 2316022

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Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Uranium	200.8	09/21/2023:210621AC (SP 2315921-001)	MS	ug/L	5.000	104%	75-125	
			MSD	ug/L	5.000	115%	75-125	
			MSRPD	ug/L		6.9%	≤20	

Definition

- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- 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.
- ND : Non-detect - Result was below the DQO listed for the analyte.

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Meadowlark Ranches Mutual Water Co.

Lab No. : SP 2316022

Customer No. : 2021676

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Gross Alpha	900.0	10/03/2023:211095AMR (SP 2316050-001)	ND	pCi/L		0.48822	1.2077	
			LCS	pCi/L	135.1	101%	50-135	
			MS	pCi/L	135.1	57.7%	60-140	435
			MSD	pCi/L	135.1	51.9%	60-140	435
			MSRPD	pCi/L		10.3%	≤30	
Radium - 228	Ra - 05	10/01/2023:210702EMV	RgBlk	pCi/L		0.65503	0.051042	
			LRS	pCi/L	10.79	88.5%	65-108	
			BS	pCi/L	10.79	103%	75-125	
			BSD	pCi/L	10.79	84.6%	75-125	
			BSRPD	pCi/L		19.3%	≤25	

Definition

- 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.
- BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
- 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.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

				1923-09/18/2023		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) Sampling-Sampling Fee Radio Chemistry-Ra 228 32oz(P)-HNO3 Radio Chemistry-Gross Alpha 32oz(P) Metals, Total-U 250ml(P)-HNO3																					
Sampler(s) M. Jimenez Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ____/____/____ Time: ____/____/____																									
Lab Number: SP <i>1310022</i> 2-21676																									
Samp Num	Location Description	Date Sampled	Time Sampled	G	DW																				
1	WELL 2	9/20/23	9:35	G	DW					X	2														
2	WELL 3	↓	9:15	G	DW					X	2	1	1												
3	WELL 4	↓	9:45	G	DW					X	2														
Remarks:				Relinquished		Date:	Time:	Relinquished		Date:	Time:	Relinquished		Date:	Time:										
				Received By: <i>[Signature]</i>		Date:	Time:	Received By:		Date:	Time:	Received By:		Date:	Time:										
						9/20/23	1500																		
						9/20/23	1900																		

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Condition Upon Receipt (Attach to COC) SP 2316022


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 / / / / / / /
- 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: 09/21/2023-08:56:39

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.
SP 2316022
IV/JAW-09/21/2023-08:56:39