

September 11, 2020

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

Lab ID : SP 2010742  
 Customer : 2-21676

### Laboratory Report

**Introduction:** This report package contains total of 7 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 (1 page) : 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
Treatment Plant - Treated	08/11/2020	08/11/2020	SP 2010742-001	DW
Well #2 Active	08/11/2020	08/11/2020	SP 2010742-002	DW
Well #3 Standby	08/11/2020	08/11/2020	SP 2010742-003	DW
Well #4 (Indian Way) Active	08/11/2020	08/11/2020	SP 2010742-004	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 - Wet Chemistry QC

314.0	08/27/2020:213993 All analysis quality controls are within established criteria.
	09/03/2020:213996 All analysis quality controls are within established criteria.
	08/26/2020:210278 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except:

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**Inorganic - Wet Chemistry QC**

314.0	The following note applies to Perchlorate: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. 09/02/2020:210373 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
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**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: 2020-09-11









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**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Perchlorate	314.0	08/26/20:210278MCA  (SP 2010522-001)	Blank	ug/L		ND	<4	
			LCS	ug/L	25.00	92.9 %	85-115	
			MS	ug/L	25.00	61.3 %	80-120	435
			MSD	ug/L	25.00	72.9 %	80-120	435
	MSRPD	ug/L	25.00	12.2%	≤15			
	314.0	08/27/20:213993MCA	CCB	ppb		0.65	2.0	
			CCV	ppb	10.00	97.0 %	85-115	
			CCB	ppb		0.00	2.0	
			CCV	ppb	20.00	97.3 %	85-115	
	314.0	09/02/20:210373MCA  (STK2051358-001)	Blank	ug/L		ND	<4	
			LCS	ug/L	25.00	87.3 %	85-115	
			MS	ug/L	25.00	83.2 %	80-120	
			MSD	ug/L	25.00	88.7 %	80-120	
	MSRPD	ug/L	25.00	6.3%	≤15			
	314.0	09/03/20:213996MCA	CCB	ppb		0.00	2.0	
			CCV	ppb	10.00	91.4 %	85-115	
CCB			ppb		0.00	2.0		
CCV			ppb	20.00	91.0 %	85-115		
<b>Definition</b>								
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.								
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.								
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.								
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
<b>Explanation</b>								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								

2340:08/17/2020				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: <b>Perchlorate Monitoring</b> Purchase Order Number: Quote Number:  Sampler(s) <i>M. Jimenez</i>  Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ___/___/___ Time: ___/___  Lab Number: <b>SP 2010742-2-21676</b>															
Samp Num	Location Description	Date Sampled	Time Sampled	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)	Wet Chemistry-Perchlorate 16oz(P)	Time/Mileage					
1	Treatment Plant - Treated	8/11/2020	10:35	G	DW				1	X					
2	Well #2 Active		9:45	G	DW				1						
3	Well #3 Standby		9:30	G	DW				1						
4	Well #4 (Indian Way) Active		10:20	G	DW				1						
Remarks:				Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:			
<i>AC</i> <i>Jimenez</i>					8/11/2020	1520									
				Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:			

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### 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

**Cynthia T Casarez**



Digitally signed by Cynthia T Casarez  
Title: Sample Receiving  
Date: 08/13/2020-13:35:11

#### 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 2010742**