

February 20, 2017

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

Lab ID : SP 1702030  
 Customer : 2-21676

### Laboratory Report

**Introduction:** This report package contains total of 4 pages divided into 3 sections:

|                 |           |   |
|-----------------|-----------|---|
| Case Narrative  | (2 pages) | : An overview of the work performed at FGL. |
| Sample Results  | (1 page)  | : 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 |
|--------------------|--------------|---------------|----------------|--------|
| Well #2 Active     | 02/15/2017   | 02/15/2017    | SP 1702030-001 | DW     |

**Sampling and Receipt Information:** The sample was 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

|          |  |
|----------|--|
| 4500NO3F | 02/15/2017:202380 All analysis quality controls are within established criteria    |
|          | 02/15/2017:201884 All preparation quality controls are within established criteria |

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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: 2017-02-20

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## INORGANIC CHEMICALS ANALYSIS

|  |  |
|--|--|
| Date of Report : February 20, 2017         | Sample ID : SP 1702030-001   |
| Laboratory Name : <b>FGL Environmental</b> | Approved By <b>Kelly A. Dunnahoo, B.S.</b>  Digitally signed by Kelly A. Dunnahoo, B.S.<br>Title: Laboratory Director<br>Date: 2017-02-20 |
| Sampled On : 02/15/2017-10:11              |  |
| Received On : 02/15/2017-14:30             | Sampler : Matthew Jimenez  |
| Completed On : 02/15/2017                  | 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 : 1702151011<br>YYMMDDTTT | Laboratory Code : 5 8 6 7    |
| Submitted By : <b>FGL Environmental</b>       | Phone # : (805) 392-2000     |

### ADDITIONAL INORGANIC

| MCL | UNITS | CHEMICALS               | ENTRY | RESULT | DLR |
|-----|-------|-------------------------|-------|--------|-----|
| 10  | mg/L  | Nitrate as N (Nitrogen) | 00618 | 0.5    | 0.4 |


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 |
|--|----------|--------------------|------|-------|--------|---------|-------|------|
| <b>Wet Chem</b><br>Nitrate + Nitrite as N  | 4500NO3F | (SP 1702024-001)   | MS   | mg/L  | 11.22  | 100 %   | 5-285 |      |
|  |          |                    | MSD  | mg/L  | 11.22  | 101 %   | 5-285 |      |
| MSRPD  |          |                    | mg/L | 11.22 | 1.3%   | ≤30.4   |       |      |
|  | 4500NO3F | 02/15/17:202380JDD | CCB  | mg/L  |        | 0.058   | 0.1   |      |
| CCV  |          |                    | mg/L | 11.22 | 98.9 % | 90-110  |       |      |
| CCB  |          |                    | mg/L |       | 0.075  | 0.1     |       |      |
| CCV  |          |                    | mg/L | 11.22 | 98.8 % | 90-110  |       |      |
| <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.  |          |                    |      |       |        |         |       |      |
| 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.  |          |                    |      |       |        |         |       |      |

|   |                      |                |              | 1922:02/20/2017                          |                                     |  |  | TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information |                            |              |       |                    |  |       |       |  |  | L215 |  |
|---|----------------------|----------------|--------------|--|-------------------------------------|--|--|--|----------------------------|--------------|-------|--------------------|--|-------|-------|--|--|------|--|
| Client: Meadowlark Ranches Mutual Water Co.<br>Address: Attn: Mike Hadley<br>P.O. Box 606<br>Santa Ynez, CA 93460-0606<br>Phone: (805)688-3132 Fax:<br>Contact Person: Mike Hadley<br>Project Name: <b>Water Quality - Well #2</b><br>Purchase Order Number:<br>Quote Number: |                      |                |              |  |                                     |  |  |  |                            |              |       |                    |  |       |       |  |  |      |  |
| Sampler(s)<br><i>M. Jimenez</i>   |                      |                |              |  |                                     |  |  |  |                            |              |       |                    |  |       |       |  |  |      |  |
| Sampling Fee: _____ Pickup Fee: _____<br>Compositor Setup Date: ___/___/___ Time: ___/___   |                      |                |              |  |                                     |  |  |  |                            |              |       |                    |  |       |       |  |  |      |  |
| Lab Number: SP <i>1702030</i> 2-21676   |                      |                |              |  |                                     |  |  |  |                            |              |       |                    |  |       |       |  |  |      |  |
| 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-NO3-N 8oz(P) | Time/Mileage |       |                    |  |       |       |  |  |      |  |
| 1   | Well #2 Active       | <i>2/15/17</i> | <i>10:11</i> | G  | DW                                  |  |  |  | 1                          | X            |       |                    |  |       |       |  |  |      |  |
| Remarks:  |                      |                |              | Relinquished                             |                                     | Date:                                    | Time:  | Relinquished   |                            | Date:        | Time: | Relinquished       |  | Date: | Time: |  |  |      |  |
| <i>5C</i>   |                      |                |              | <i>[Signature]</i>                       |                                     | <i>2/15/17</i>                           | <i>1430</i>  | <i>[Signature]</i>   |                            |              |       | <i>[Signature]</i> |  |       |       |  |  |      |  |
|   |                      |                |              | 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 / 5 / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
- 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: 02/15/2017-14:56:32

**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 1702030**