

February 22, 2022

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

Lab ID : SP 2201896
 Customer : 2-21676

Laboratory Report

Introduction: This report package contains total of 21 pages divided into 3 sections:

Case Narrative	(3 pages)	: An overview of the work performed at FGL.
Sample Results	(5 pages)	: Results for each sample submitted.
Quality Control	(13 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 #2 ACTIVE	02/03/2022	02/03/2022	SP 2201896-001	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 - Metals QC

200.7	02/04/2022:201879 All analysis quality controls are within established criteria.
	02/04/2022:201332 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
200.8	02/07/2022:201922 All analysis quality controls are within established criteria.
	02/07/2022:201438 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except:

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Inorganic - Metals QC

200.8	The following note applies to Silver, Aluminum, Arsenic: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
245.1	02/15/2022:202381 All analysis quality controls are within established criteria.
	02/15/2022:201761 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

Organic QC

524.2	02/10/2022:202160 All analysis quality controls are within established criteria, except: The following note applies to Bromomethane (Methyl Bromide), Dichlorodifluoromethane, Trichlorofluoromethane F-11, Chloroethane (Ethyl Chloride), Chlo: 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. The following note applies to 4-Bromofluorobenzene (BFB): 362 Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.
	02/10/2022:201661 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except: The following note applies to Dichlorodifluoromethane: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Inorganic - Wet Chemistry QC

2120B	02/03/2022:201826 All analysis quality controls are within established criteria.
	02/03/2022:201381 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
2130B	02/03/2022:202000 All analysis quality controls are within established criteria.
	02/03/2022:201528 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
2150B	02/03/2022:201387 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
2320B	02/14/2022:202273 All analysis quality controls are within established criteria.
	02/13/2022:201573 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

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Inorganic - Wet Chemistry QC

2510B	02/08/2022:201918 All analysis quality controls are within established criteria.
	02/08/2022:201450 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
2540CE	02/07/2022:201422 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
300.0	02/03/2022:201775 All analysis quality controls are within established criteria.
	02/04/2022:201775 All analysis quality controls are within established criteria.
	02/03/2022:201297 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
5540C	02/04/2022:202007 All analysis quality controls are within established criteria.
	02/04/2022:201537 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except: The following note applies to MBAS Extraction: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.

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: 2022-02-24

Employed By : FGL Environmental

Phone # : (805) 392-2000

GENERAL MINERAL & PHYSICAL

TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
2150B	3 ²	TON	Odor Threshold at 60 °C	00086	ND	1
2130B	5 ²	NTU	Lab Turbidity	82079	ND	0.1
5540C	0.5 ²	mg/L	MBAS	38260	ND	0.05

REGULATED INORGANIC

TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
200.8	1000	ug/L	Aluminum	01105	ND	50
200.8	6	ug/L	Antimony	01097	ND	6
200.8	10	ug/L	Arsenic	01002	ND	2
200.8	1000	ug/L	Barium	01007	ND	100
200.8	4	ug/L	Beryllium	01012	ND	1
200.8	5	ug/L	Cadmium	01027	ND	1
200.8	50	ug/L	Chromium (Total Cr)	01034	14	10
200.7	1000 ²	ug/L	Copper	01042	ND	50
200.7	300 ²	ug/L	Iron	01045	ND	100
200.8	15	ug/L	Lead	01051	ND	5
200.7	50 ²	ug/L	Manganese	01055	ND	20
245.1	2	ug/L	Mercury	71900	ND	1
200.8	100	ug/L	Nickel	01067	ND	10
200.8	50	ug/L	Selenium	01147	ND	5
200.8	100 ²	ug/L	Silver	01077	ND	10
200.8	2	ug/L	Thallium	01059	ND	1
200.7		ug/L	Zinc	01092	ND	50

ADDITIONAL INORGANIC

TEST	MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
200.7	---	ug/L	Boron	01020	300	100
4500HB			Langelier Index at 20 °C	71814	0.07	
300.0	10	mg/L	Nitrate as N (Nitrogen)	00618	ND	0.4
300.0	10	mg/L	Nitrate + Nitrite as N	A-029	ND	0.2
300.0	1	mg/L	Nitrite as N (Nitrogen)	00620	ND	0.4
200.8	---	ug/L	Vanadium	01087	6	3
4500HB			Aggressiveness Index	82383	12.0	

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

² Indicates Secondary Drinking Water Standards(Recommended-Upper-Short Term)

ORGANIC CHEMICALS ANALYSIS

Date of Report : February 22, 2022 Sample ID : SP 2201896-001

Laboratory Name : **FGL Environmental**

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



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2022-02-24

Sampled On : 02/03/2022-09:45

Received On : 02/03/2022-14:00

Completed On : 02/22/2022-10:51

Sampler : Matthew Jimenez

Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES
: MUTUAL WATER COMPANY

Number : CA4200612_001_001 **EDT**

Name Or Number of Sample Source : WELL 1 (INACTIVE)

Station Number : CA4200612_001_001

Date/Time of Sample : 2202030945

YYMMDDTTT

Laboratory Code : 5 8 6 7

Lab Location : Santa Paula, CA

Submitted By : **FGL Environmental**

Phone # : (805) 392-2000

REGULATED ORGANICS CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	Bromodichloromethane	32101	ND	---	1
524.2	Bromoform	32104	ND	---	1
524.2	Chloroform (Trichloromethane)	32106	ND	---	1
524.2	Dibromochloromethane	32105	ND	---	1
524.2	Total Trihalomethanes (THM'S/TTHM)	82080	ND	80	
524.2	Benzene	34030	ND	1	0.5
524.2	Carbon Tetrachloride	32102	ND	0.5	0.5
524.2	1,2-Dichlorobenzene (o-DCB)	34536	ND	600	0.5
524.2	1,4-Dichlorobenzene (p-DCB)	34571	ND	5	0.5
524.2	1,1-Dichloroethane (1,1-DCA)	34496	ND	5	0.5
524.2	1,2-Dichloroethane (1,2-DCA)	34531	ND	0.5	0.5
524.2	1,1-Dichloroethylene (1,1-DCE)	34501	ND	6	0.5
524.2	cis-1,2-Dichloroethylene	77093	ND	6	0.5
524.2	trans-1,2-Dichloroethylene	34546	ND	10	0.5
524.2	Dichloromethane (Methylene Chloride)	34423	ND	5	0.5
524.2	1,2-Dichloropropane	34541	ND	5	0.5
524.2	Total 1,3-Dichloropropene	34561	ND	0.5	0.5
524.2	Ethyl Benzene	34371	ND	300	0.5
524.2	Monochlorobenzene (Chlorobenzene)	34301	ND	70	0.5

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REGULATED ORGANICS CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	Styrene	77128	ND	100	0.5
524.2	1,1,2,2-Tetrachloroethane	34516	ND	1	0.5
524.2	Tetrachloroethylene (PCE)	34475	ND	5	0.5
524.2	Toluene	34010	ND	150	0.5
524.2	1,2,4-Trichlorobenzene	34551	ND	5	0.5
524.2	1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	200	0.5
524.2	1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	5	0.5
524.2	Trichloroethylene (TCE)	39180	ND	5	0.5
524.2	Trichlorofluoromethane (Freon 11)	34488	ND	150	5
524.2	Trichlorotrifluoroethane (Freon 113)	81611	ND	1200	10
524.2	Vinyl Chloride (VC)	39175	ND	0.5	0.5
524.2	m,p-Xylenes	A-014	ND	1750	0.5
524.2	o-Xylene	77135	ND	1750	0.5
524.2	Total Xylenes (m,p & o)	81551	ND	1750	0.5
524.2	Methyl tert-Butyl Ether (MTBE)	46491	ND	13	3.0
524.2	cis-1,3-Dichloropropene	34704	ND	0.5	0.5
524.2	trans-1,3-Dichloropropene	34699	ND	0.5	0.5

UNREGULATED ORGANICS CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	Bromobenzene	81555	ND	---	0.5
524.2	Bromochloromethane	A-012	ND	---	0.5
524.2	Bromomethane (Methyl Bromide)	34413	ND	---	0.5
524.2	n-Butylbenzene	A-010	ND	---	0.5
524.2	sec-Butylbenzene	77350	ND	---	0.5
524.2	tert-Butylbenzene	77353	ND	---	0.5
524.2	Chloroethane	34311	ND	---	0.5
524.2	Chloromethane (Methyl Chloride)	34418	ND	---	0.5
524.2	2-Chlorotoluene	A-008	ND	---	0.5
524.2	4-Chlorotoluene	A-009	ND	---	0.5
524.2	Dibromomethane	77596	ND	---	0.5
524.2	1,3-Dichlorobenzene (m-DCB)	34566	ND	---	0.5
524.2	Dichlorodifluoromethane	34668	ND	---	0.5
524.2	1,3-Dichloropropane	77173	ND	---	0.5
524.2	2,2-Dichloropropane	77170	ND	---	0.5
524.2	1,1-Dichloropropene	77168	ND	---	0.5
524.2	Hexachlorobutadiene	34391	ND	---	0.5
524.2	Isopropylbenzene (Cumene)	77223	ND	---	0.5

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UNREGULATED ORGANICS CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	p-Isopropyltoluene	A-011	ND	---	0.5
524.2	Naphthalene	34696	ND	---	0.5
524.2	n-Propylbenzene	77224	ND	---	0.5
524.2	1,1,1,2-Tetrachloroethane	77562	ND	---	0.5
524.2	1,2,3-Trichlorobenzene	77613	ND	---	0.5
524.2	1,2,4-Trimethylbenzene	77222	ND	---	0.5
524.2	1,3,5-Trimethylbenzene	77226	ND	---	0.5

ADDITIONAL ORGANICS CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	Ethyl tert-Butyl Ether (ETBE)	A-033	ND	---	3
524.2	Tert-amyl-methyl Ether (TAME)	A-034	ND	---	3
524.2	tert-Butanol	77035	ND	---	2
524.2	Diisopropyl Ether (DIPE)	A-036	ND	---	3

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Boron	200.7	(SP 2201781-001)	MS	mg/L	4.000	99.5 %	75-125	
			MSD	mg/L	4.000	96.6 %	75-125	
			MSRPD	mg/L	4.000	3.0%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	5.000	96.4 %	90-110	
			CCB	ppm		0.010	0.1	
			CCV	ppm	5.000	95.3 %	90-110	
			CCB	ppm		0.013	0.1	
Calcium	200.7	(SP 2201781-001)	MS	mg/L	12.00	105 %	75-125	
			MSD	mg/L	12.00	102 %	75-125	
			MSRPD	mg/L	4.000	3.1%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	25.00	103 %	90-110	
			CCB	ppm		-0.06	1	
			CCV	ppm	25.00	96.4 %	90-110	
			CCB	ppm		-0.008	1	
Copper	200.7	(SP 2201781-001)	MS	ug/L	800.0	107 %	75-125	
			MSD	ug/L	800.0	105 %	75-125	
			MSRPD	ug/L	4.000	2.0%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	1.000	102 %	90-110	
			CCB	ppm		-0.0015	0.01	
			CCV	ppm	1.000	99.9 %	90-110	
			CCB	ppm		-0.0004	0.01	
Iron	200.7	(SP 2201781-001)	MS	ug/L	4000	102 %	75-125	
			MSD	ug/L	4000	99.4 %	75-125	
			MSRPD	ug/L	4.000	2.6%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	5.000	99.9 %	90-110	
			CCB	ppm		0.0143	0.03	
			CCV	ppm	5.000	93.4 %	90-110	
			CCB	ppm		0.0242	0.03	
Magnesium	200.7	(SP 2201781-001)	MS	mg/L	12.00	109 %	75-125	
			MSD	mg/L	12.00	106 %	75-125	
			MSRPD	mg/L	4.000	3.0%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	25.00	106 %	90-110	
			CCB	ppm		-0.006	1	
			CCV	ppm	25.00	99.5 %	90-110	
			CCB	ppm		-0.01	1	
Manganese	200.7	(SP 2201781-001)	MS	ug/L	800.0	102 %	75-125	
			MSD	ug/L	800.0	101 %	75-125	
			MSRPD	ug/L	4.000	0.8%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	1.000	99.2 %	90-110	
			CCB	ppm		-0.0058	0.01	
			CCV	ppm	1.000	95.3 %	90-110	
			CCB	ppm		-0.0063	0.01	
Potassium	200.7	(SP 2201781-001)	MS	mg/L	12.00	99.5 %	75-125	
			MSD	mg/L	12.00	98.1 %	75-125	
			MSRPD	mg/L	4.000	1.4%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	25.00	102 %	90-110	
			CCB	ppm		0.45	1	
			CCV	ppm	25.00	97.5 %	90-110	
			CCB	ppm		0.10	1	
Sodium	200.7	(SP 2201781-001)	MS	mg/L	12.00	109 %	75-125	
			MSD	mg/L	12.00	107 %	75-125	
			MSRPD	mg/L	4.000	1.9%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	25.00	106 %	90-110	
			CCB	ppm		0.25	1	
			CCV	ppm	25.00	101 %	90-110	

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Sodium	200.7	02/04/22:201879AC	CCB	ppm		0.19	1	
Zinc	200.7	(SP 2201781-001)	MS	ug/L	800.0	99.9 %	75-125	
			MSD	ug/L	800.0	97.1 %	75-125	
			MSRPD	ug/L	4.000	2.8%	≤20.0	
	200.7	02/04/22:201879AC	CCV	ppm	1.000	95.1 %	90-110	
Aluminum	200.8	(SP 2201891-001)	CCB	ppm		0.0015	0.02	
			CCV	ppm	1.000	98.2 %	90-110	
			CCB	ppm		0.0032	0.02	
	200.8	02/07/22:201922AC	MS	ug/L	5.000	165 %	75-125	435
Antimony	200.8	(SP 2201891-001)	MSD	ug/L	5.000	162 %	75-125	435
			MSRPD	ug/L	5.000	0.15	≤20	
			CCV	ppb	50.00	105 %	90-110	
	200.8	02/07/22:201922AC	CCB	ppb		0.03	10	
Arsenic	200.8	(SP 2201891-001)	CCV	ppb	50.00	107 %	90-110	
			CCB	ppb		0.01	10	
			CCV	ppb	50.00	105 %	90-110	
	200.8	02/07/22:201922AC	CCB	ppb		0.002	1	
Barium	200.8	(SP 2201891-001)	MS	ug/L	5.000	132 %	75-125	435
			MSD	ug/L	5.000	127 %	75-125	435
			MSRPD	ug/L	5.000	3.0%	≤20	
	200.8	02/07/22:201922AC	CCV	ppb	50.00	104 %	90-110	
Beryllium	200.8	(SP 2201891-001)	CCB	ppb		0.03	1	
			CCV	ppb	50.00	105 %	90-110	
			CCB	ppb		0.05	1	
	200.8	02/07/22:201922AC	CCV	ppb	50.00	101 %	90-110	
Cadmium	200.8	(SP 2201891-001)	CCB	ppb		0.005	0.2	
			CCV	ppb	50.00	103 %	90-110	
			CCB	ppb		0.003	0.2	
	200.8	02/07/22:201922AC	CCV	ppb	50.00	93.6 %	90-110	
Chromium	200.8	(SP 2201891-001)	CCB	ppb		-0.003	0.2	
			CCV	ppb	50.00	93.4 %	90-110	
			CCB	ppb		-0.004	0.2	
	200.8	02/07/22:201922AC	CCV	ppb	50.00	102 %	90-110	
Cadmium	200.8	(SP 2201891-001)	MS	ug/L	5.000	102 %	75-125	
			MSD	ug/L	5.000	102 %	75-125	
			MSRPD	ug/L	5.000	0.2%	≤20	
	200.8	02/07/22:201922AC	CCV	ppb	50.00	98.7 %	90-110	
Chromium	200.8	(SP 2201891-001)	CCB	ppb		0.000	0.2	
			CCV	ppb	50.00	98.5 %	90-110	
			CCB	ppb		0.000	0.2	
	200.8	02/07/22:201922AC	MS	ug/L	5.000	72.0 %	<¼	
Chromium	200.8	(SP 2201891-001)	MSD	ug/L	5.000	66.2 %	<¼	
			MSRPD	ug/L	5.000	1.1%	≤20	
			CCV	ppb	50.00	105 %	90-110	
	200.8	02/07/22:201922AC	CCV	ppb	50.00	105 %	90-110	

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: SP 2201896

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Chromium	200.8	02/07/22:201922AC	CCB CCV CCB	ppb ppb ppb	50.00	0.23 105 % 0.26	1 90-110 1	
Lead	200.8	(SP 2201891-001)	MS	ug/L	5.000	107 %	75-125	
			MSD	ug/L	5.000	104 %	75-125	
			MSRPD	ug/L	5.000	2.7%	≤20	
	200.8	02/07/22:201922AC	CCV CCB CCV CCB	ppb ppb ppb ppb	50.00 50.00 50.00	101 % 0.001 102 % -0.054	90-110 0.5 90-110 0.5	
Nickel	200.8	(SP 2201891-001)	MS	ug/L	5.000	105 %	75-125	
			MSD	ug/L	5.000	96.6 %	75-125	
			MSRPD	ug/L	5.000	3.8%	≤20	
	200.8	02/07/22:201922AC	CCV CCB CCV CCB	ppb ppb ppb ppb	50.00 50.00 50.00	107 % -0.03 108 % -0.01	90-110 1 90-110 1	
Selenium	200.8	(SP 2201891-001)	MS	ug/L	5.000	159 %	<¼	
			MSD	ug/L	5.000	140 %	<¼	
			MSRPD	ug/L	5.000	1.8%	≤20	
	200.8	02/07/22:201922AC	CCV CCB CCV CCB	ppb ppb ppb ppb	50.00 50.00 50.00	103 % 0.1 103 % 0.17	90-110 1 90-110 1	
Silver	200.8	(SP 2201891-001)	MS	ug/L	5.000	54.3 %	75-125	435
			MSD	ug/L	5.000	51.6 %	75-125	435
			MSRPD	ug/L	5.000	0.13	≤1	
	200.8	02/07/22:201922AC	CCV CCB CCV CCB	ppb ppb ppb ppb	50.00 50.00 50.00	95.1 % 0.007 101 % 0.008	90-110 1 90-110 1	
Thallium	200.8	(SP 2201891-001)	MS	ug/L	5.000	105 %	75-125	
			MSD	ug/L	5.000	102 %	75-125	
			MSRPD	ug/L	5.000	2.8%	≤20	
	200.8	02/07/22:201922AC	CCV CCB CCV CCB	ppb ppb ppb ppb	50.00 50.00 50.00	100 % 0.002 100 % 0.002	90-110 0.2 90-110 0.2	
Vanadium	200.8	(SP 2201891-001)	MS	ug/L	5.000	97.9 %	75-125	
			MSD	ug/L	5.000	95.7 %	75-125	
			MSRPD	ug/L	5.000	0.8%	≤20	
	200.8	02/07/22:201922AC	CCV CCB CCV CCB	ppb ppb ppb ppb	50.00 50.00 50.00	107 % 0.07 107 % 0.07	90-110 2 90-110 2	
Mercury	245.1	02/15/22:201761ac	Blank	ug/L		ND	<0.02	
			LCS	ug/L	0.2000	106%	85-115	
			MS	ug/L	0.2000	108%	75-125	
		(CC 2280376-001)	MSD MSRPD	ug/L ug/L	0.2000 0.2000	111% 2.7%	75-125 ≤20	
	245.1	02/15/22:202381ac	CCV CCB CCV CCB	ppt ppt ppt ppt	200.0 200.0	102% -1.56 98.5% -2.17	90-110 20 90-110 20	

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Apparent Color	2120B	(CC 2280376-001)	Dup	units		0%	20	
Color	2120B	02/03/22:201826NJB	CCB	units		0.00	5	
			CCV	units	10.00	100%	90-110	
Turbidity	2130B	(CC 2280376-001)	Dup	NTU		0.5%	20	
	2130B	02/03/22:202000jba	CCV	ntu	10.00	95.3%	90-110	
			CCB	ntu		0.0190	0.1	
			CCV	ntu	10.00	90.1%	90-110	
			CCB	ntu		0.0180	0.1	
Odor	2150B	(CC 2280376-001)	Dup	TON		0.0	1	
Alkalinity (as CaCO ₃)	2320B	(STK2231679-006)	Dup	mg/L		0.1%	10	
	2320B	02/14/22:202273AMM	CCV	mg/L	235.8	97.2 %	90-110	
			CCV	mg/L	235.8	109 %	90-110	
Bicarbonate	2320B	(STK2231679-006)	Dup	mg/L		0.1%	10	
Carbonate	2320B	(STK2231679-006)	Dup	mg/L		0.0	10	
Hydroxide	2320B	(STK2231679-006)	Dup	mg/L		0.0	10	
Conductivity	2510B	02/08/22:201918sta	ICB	umhos/cm		0.0800	1	
			CCV	umhos/cm	997.0	97.7%	95-105	
			CCV	umhos/cm	997.0	97.1%	95-105	
E. C.	2510B	02/08/22:201450sta	Blank	umhos/cm		ND	<1	
		(SP 2201647-001)	Dup	umhos/cm		0.4%	5	
Total Dissolved Solids (TFR)	2540CE	02/07/22:201422CTL	Blank	mg/L		6.2	20	
			LCS	mg/L	991.0	98.3 %	90-110	
		(STK2231665-001)	Dup	mg/L		2.1%	5	
		(STK2231665-001)	Dup	mg/L		1.2%	5	
Chloride	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	98.1 %	90-110	
			MS	mg/L	50.00	100 %	85-121	
		(VI 2240551-001)	MSD	mg/L	50.00	101 %	85-121	
			MSRPD	mg/L	10.00	0.7%	≤19	
			MS	mg/L	50.00	92.9 %	85-121	
		(VI 2240550-002)	MSD	mg/L	50.00	98.3 %	85-121	
			MSRPD	mg/L	10.00	3.4%	≤19	
	300.0	02/03/22:201775njb	CCB	mg/l		0.111	1	
			CCV	mg/l	25.00	102%	90-110	
			CCB	mg/l		0.0770	1	
			CCV	mg/l	25.00	102%	90-110	
Fluoride	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.1	
			LCS	mg/L	2.500	98.4 %	90-110	
			MS	mg/L	5.000	104 %	87-120	
		(VI 2240551-001)	MSD	mg/L	5.000	104 %	87-120	
			MSRPD	mg/L	10.00	0.7%	≤16	
			MS	mg/L	5.000	99.9 %	87-120	
		(VI 2240550-002)	MSD	mg/L	5.000	105 %	87-120	
			MSRPD	mg/L	10.00	4.9%	≤16	
	300.0	02/03/22:201775njb	CCB	mg/l		0.00	0.1	
			CCV	mg/l	2.500	102%	90-110	
			CCB	mg/l		0.00	0.1	
			CCV	mg/l	2.500	101%	90-110	
Nitrate	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	97.0 %	90-110	
			MS	mg/L	40.00	102 %	85-119	
		(VI 2240551-001)	MSD	mg/L	40.00	103 %	85-119	
			MSRPD	mg/L	10.00	0.9%	≤19	
			MS	mg/L	40.00	97.6 %	85-119	

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Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896
Customer : 2-21676

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Nitrate	300.0	(VI 2240550-002)	MSD	mg/L	40.00	103 %	85-119	
			MSRPD	mg/L	10.00	5.4%	≤19	
	300.0	02/03/22:201775njb	CCB	mg/l		0.00	0.5	
			CCV	mg/l	20.00	101%	90-110	
			CCB	mg/l		0.00	0.5	
			CCV	mg/l	20.00	100%	90-110	
Nitrate + Nitrite as N	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.1	
Nitrate Nitrogen	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.1	
Nitrite	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.5	
			LCS	mg/L	15.00	97.1 %	90-110	
			MS	mg/L	30.00	102 %	74-126	
		(VI 2240551-001)	MSD	mg/L	30.00	103 %	74-126	
			MSRPD	mg/L	10.00	0.9%	≤20	
			MS	mg/L	30.00	97.4 %	74-126	
		(VI 2240550-002)	MSD	mg/L	30.00	103 %	74-126	
			MSRPD	mg/L	10.00	5.7%	≤20	
	300.0	02/03/22:201775njb	CCB	mg/l		0.00	0.5	
			CCV	mg/l	15.00	101%	90-110	
			CCB	mg/l		0.00	0.5	
			CCV	mg/l	15.00	101%	90-110	
Nitrite Nitrogen	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.2	
Sulfate	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	105 %	90-110	
			MS	mg/L	100.0	105 %	82-124	
		(VI 2240551-001)	MSD	mg/L	100.0	107 %	82-124	
			MSRPD	mg/L	10.00	0.9%	≤23	
			MS	mg/L	100.0	97.2 %	82-124	
		(VI 2240550-002)	MSD	mg/L	100.0	103 %	82-124	
			MSRPD	mg/L	10.00	3.8%	≤23	
	300.0	02/04/22:201775njb	CCB	mg/l		0.170	0.5	
			CCV	mg/l	50.00	109%	90-110	
			CCB	mg/l		0.159	0.5	
			CCV	mg/l	50.00	109%	90-110	
MBAS	5540C	02/04/22:202007JBA	CCB	mg/l		-0.0611	0.25	
			CCV	mg/l	1.000	101%	90-110	
			CCB	mg/l		-0.0611	0.25	
			CCV	mg/l	1.000	101%	90-110	
MBAS Extraction	5540C	02/04/22:201537JBA	Blank	mg/L		ND	<0.1	
			LCS	mg/L	0.5000	101 %	86-114	
			BS	mg/L	0.5000	114 %	86-114	
			BSD	mg/L	0.5000	105 %	86-114	
			BSRPD	mg/L	0.5000	9.3%	≤5	410

Definition

ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
 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.
 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.

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID

: SP 2201896

Customer

: 2-21676

Quality Control - Inorganic

Definition	
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.
Dup	: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
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.
ND	: Non-detect - Result was below the DQO listed for the analyte.
<¼	: High Sample Background - Spike concentration was less than one forth of the sample concentration.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.
Explanation	
410	: Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,1,1,2-Tetrachloroethane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	73.5 %	12-178	
			MSD	ug/L	10.00	82.6 %	12-178	
			MSRPD	ug/L	10.00	11.7%	≤39	
1,1,1-Trichloroethane(TCA)	524.2	02/10/22:201661VRG (SP 2201896-001)	CCV	ug/L	10.00	93.4 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	97.3 %	9-176	
			MSD	ug/L	10.00	104 %	9-176	
1,1,2,2-Tetrachloroethane	524.2	02/10/22:201661VRG (SP 2201896-001)	MSRPD	ug/L	10.00	6.4%	≤33	
			CCV	ug/L	10.00	108 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	63.6 %	23-180	
1,1,2-Trichloroethane	524.2	02/10/22:201661VRG (SP 2201896-001)	MSD	ug/L	10.00	72.2 %	23-180	
			MSRPD	ug/L	10.00	12.6%	≤34	
			CCV	ug/L	10.00	83.6 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1-Dichloroethane	524.2	02/10/22:201661VRG (SP 2201896-001)	MS	ug/L	10.00	65.3 %	25-173	
			MSD	ug/L	10.00	76.9 %	25-173	
			MSRPD	ug/L	10.00	16.3%	≤29	
			CCV	ug/L	10.00	89.7 %	70-130	
1,1-Dichloroethylene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	101 %	15-161	
			MSD	ug/L	10.00	99.2 %	15-161	
			MSRPD	ug/L	10.00	1.6%	≤36	
1,1-Dichloropropene	524.2	02/10/22:201661VRG (SP 2201896-001)	CCV	ug/L	10.00	116 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	102 %	0-171	
			MSD	ug/L	10.00	103 %	0-171	
1,2,3-Trichlorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	MSRPD	ug/L	10.00	1.5%	≤31	
			CCV	ug/L	10.00	101 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	59.5 %	14-181	
1,2,4-Trichlorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	MSD	ug/L	10.00	70.1 %	14-181	
			MSRPD	ug/L	10.00	16.4%	≤34	
			CCV	ug/L	10.00	82.6 %	70-130	
			Blank	ug/L		ND	<0.5	
1,2,4-Trimethylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	MS	ug/L	10.00	63.9 %	10-180	
			MSD	ug/L	10.00	76.0 %	10-180	
			MSRPD	ug/L	10.00	17.3%	≤32	
			CCV	ug/L	10.00	92.9 %	70-130	
1,2-Dichlorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	62.7 %	13-191	
			MSD	ug/L	10.00	68.4 %	13-191	
			MSRPD	ug/L	10.00	8.6%	≤35	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	82.8 %	70-130	

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
1,2-Dichlorobenzene-d4	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	93.3 %	70-130	
			MS	ug/L	10.00	99.6 %	70-130	
			MSD	ug/L	10.00	105 %	70-130	
			MSRPD	ug/L	10.00	5.1%	≤20	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	116 %	70-130	
1,2-Dichloroethane (EDC)	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	87.9 %	18-162	
			MSD	ug/L	10.00	98.6 %	18-162	
			MSRPD	ug/L	10.00	11.4%	≤33	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	117 %	70-130	
1,2-Dichloropropane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	78.2 %	10-163	
			MSD	ug/L	10.00	84.0 %	10-163	
			MSRPD	ug/L	10.00	7.2%	≤34	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	94.1 %	70-130	
1,3,5-Trimethylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	69.7 %	0-210	
			MSD	ug/L	10.00	76.7 %	0-210	
			MSRPD	ug/L	10.00	9.5%	≤40	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	84.2 %	70-130	
1,3-Dichlorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	68.5 %	17-182	
			MSD	ug/L	10.00	76.4 %	17-182	
			MSRPD	ug/L	10.00	11.0%	≤39	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	87.3 %	70-130	
1,3-Dichloropropane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	72.2 %	0-178	
			MSD	ug/L	10.00	84.6 %	0-178	
			MSRPD	ug/L	10.00	15.9%	≤29	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	97.6 %	70-130	
1,4-Dichlorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	65.8 %	19-183	
			MSD	ug/L	10.00	76.2 %	19-183	
			MSRPD	ug/L	10.00	14.6%	≤37	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	89.7 %	70-130	
2,2-Dichloropropane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	106 %	0-288	
			MSD	ug/L	10.00	109 %	0-288	
			MSRPD	ug/L	10.00	2.4%	≤33	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	114 %	70-130	
2-Chlorotoluene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	77.4 %	17-180	
			MSD	ug/L	10.00	87.2 %	17-180	
			MSRPD	ug/L	10.00	11.9%	≤38	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	92.6 %	70-130	
4-Bromofluorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	111 %	70-130	
			MS	ug/L	10.00	124 %	70-130	
			MSD	ug/L	10.00	126 %	70-130	
			MSRPD	ug/L	10.00	1.0%	≤30	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	140 %	70-130	362
4-Chlorotoluene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	79.2 %	11-177	
			MSD	ug/L	10.00	87.4 %	11-177	
			MSRPD	ug/L	10.00	9.8%	≤41	

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Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
4-Chlorotoluene	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	93.7 %	70-130	
Benzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	83.8 %	12-158	
			MSD	ug/L	10.00	91.9 %	12-158	
			MSRPD	ug/L	10.00	9.2%	≤36	
Bromobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	CCV	ug/L	10.00	97.9 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	67.0 %	23-177	
			MSD	ug/L	10.00	78.7 %	23-177	
Bromochloromethane	524.2	02/10/22:201661VRG (SP 2201896-001)	MSRPD	ug/L	10.00	16.1%	≤40	
			CCV	ug/L	10.00	87.9 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	65.5 %	4-186	
Bromodichloromethane	524.2	02/10/22:201661VRG (SP 2201896-001)	MSD	ug/L	10.00	75.3 %	4-186	
			MSRPD	ug/L	10.00	13.9%	≤30	
			CCV	ug/L	10.00	81.8 %	70-130	
			Blank	ug/L		ND	<0.5	
Bromoform	524.2	02/10/22:201661VRG (SP 2201896-001)	MS	ug/L	10.00	87.7 %	11-164	
			MSD	ug/L	10.00	94.5 %	11-164	
			MSRPD	ug/L	10.00	7.4%	≤34	
			CCV	ug/L	10.00	117 %	70-130	
Bromomethane (Methyl Bromide)	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	124 %	0-196	
			MSD	ug/L	10.00	92.6 %	0-196	
			MSRPD	ug/L	10.00	28.9%	≤40	
Carbon Tetrachloride	524.2	02/10/22:201661VRG (SP 2201896-001)	CCV	ug/L	10.00	147 %	70-130	360
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	96.4 %	5-175	
			MSD	ug/L	10.00	96.2 %	5-175	
Chlorobenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	MSRPD	ug/L	10.00	0.2%	≤32	
			CCV	ug/L	10.00	100 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	74.7 %	14-175	
Chloroethane (Ethyl Chloride)	524.2	02/10/22:201661VRG (SP 2201896-001)	MSD	ug/L	10.00	82.8 %	14-175	
			MSRPD	ug/L	10.00	10.3%	≤35	
			CCV	ug/L	10.00	88.7 %	70-130	
			Blank	ug/L		ND	<0.5	
Chloroform	524.2	02/10/22:201661VRG (SP 2201896-001)	MS	ug/L	10.00	130 %	0-184	
			MSD	ug/L	10.00	101 %	0-184	
			MSRPD	ug/L	10.00	25.4%	≤40	
			CCV	ug/L	10.00	145 %	70-130	360
Chloromethane(Methyl Chloride)	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	89.8 %	15-163	
			MSD	ug/L	10.00	94.6 %	15-163	
			MSRPD	ug/L	10.00	5.1%	≤36	
Chloromethane(Methyl Chloride)	524.2	02/10/22:201661VRG (SP 2201896-001)	CCV	ug/L	10.00	107 %	70-130	
			Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	159 %	0-224	
			MSD	ug/L	10.00	110 %	0-224	

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Chloromethane(Methyl Chloride)	524.2	02/10/22:201661VRG	MSRPD	ug/L	10.00	36.7%	≤39	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	177 %	70-130	360
cis-1,2-Dichloroethylene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 85.6 % 86.5 % 1.1%	<0.5 16-172 16-172 ≤34	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	99.4 %	70-130	
cis-1,3-Dichloropropene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 80.0 % 77.7 % 3.0%	<0.5 5-158 5-158 ≤38	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	107 %	70-130	
Dibromochloromethane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 69.2 % 82.6 % 17.7%	<0.5 1-180 1-180 ≤34	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	97.6 %	70-130	
Dibromomethane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 69.2 % 79.2 % 13.5%	<0.5 11-168 11-168 ≤28	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	97.3 %	70-130	
Dichlorodifluoromethane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 170 % 112 % 41.3%	<0.5 0-334 0-334 ≤39	435
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	153 %	70-130	360
Dichloromethane	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 79.6 % 87.6 % 9.7%	<0.5 20-157 20-157 ≤36	
Ethyl tert-Butyl Ether	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 95.8 % 107 % 1.1	<3 11-165 11-165 ≤3	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	132 %	70-130	360
Ethylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 80.7 % 89.8 % 10.7%	<0.5 9-174 9-174 ≤37	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	92.4 %	70-130	
Freon-11	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 153 % 108 % 34.6%	<0.5 0-232 0-232 ≤35	
Hexachlorobutadiene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 73.6 % 76.0 % 3.3%	<0.5 14-200 14-200 ≤40	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	77.7 %	70-130	
Isopropyl Ether	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00 10.00	ND 101 % 120 % 1.9	<3 8-165 8-165 ≤3	

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Isopropyl Ether	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	142 %	70-130	360
Isopropylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.6 %	4-159	
			MSD	ug/L	10.00	82.5 %	4-159	
			MSRPD	ug/L	10.00	4.8%	≤37	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	86.8 %	70-130	
Methyl tert-Butyl Ether	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	152 %	70-130	360
Methyl tert-Butyl Ether (MTBE)	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	104 %	11-168	
			MSD	ug/L	10.00	113 %	11-168	
			MSRPD	ug/L	10.00	0.88	≤3	
Methylene Chloride	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	114 %	70-130	
Naphthalene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	66.8 %	0-189	
			MSD	ug/L	10.00	75.8 %	0-189	
			MSRPD	ug/L	10.00	12.7%	≤32	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	89.3 %	70-130	
n-Butylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	89.6 %	4-186	
			MSD	ug/L	10.00	94.8 %	4-186	
			MSRPD	ug/L	10.00	5.6%	≤37	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	99.7 %	70-130	
n-Propylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	83.8 %	0-174	
			MSD	ug/L	10.00	87.8 %	0-174	
			MSRPD	ug/L	10.00	4.7%	≤37	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	94.5 %	70-130	
p-Isopropyltoluene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	79.0 %	0-193	
			MSD	ug/L	10.00	82.5 %	0-193	
			MSRPD	ug/L	10.00	4.4%	≤40	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	89.3 %	70-130	
sec-Butylbenzene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.3 %	0-177	
			MSD	ug/L	10.00	82.5 %	0-177	
			MSRPD	ug/L	10.00	5.2%	≤40	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	85.3 %	70-130	
Styrene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	55.6 %	0-198	
			MSD	ug/L	10.00	45.2 %	0-198	
			MSRPD	ug/L	10.00	20.6%	≤37	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	85.4 %	70-130	
TAME	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	85.5 %	15-162	
			MSD	ug/L	10.00	101 %	15-162	
			MSRPD	ug/L	10.00	1.6	≤3	
	524.2	02/10/22:202160VRG	CCV	ug/L	10.00	126 %	70-130	
tert-Butanol	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<2	
			MS	ug/L	50.00	105 %	0-198	
			MSD	ug/L	50.00	113 %	0-198	
			MSRPD	ug/L	10.00	7.8%	≤39	
	524.2	02/10/22:202160VRG	CCV	ug/L	50.00	147 %	70-130	360
tert-Butylbenzene	524.2	02/10/22:201661VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	77.2 %	9-179	

February 22, 2022
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896
Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic tert-Butylbenzene	524.2	(SP 2201896-001)	MSD	ug/L	10.00	81.7 %	9-179	
			MSRPD	ug/L	10.00	5.7%	≤38	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	87.8 %	70-130	
Tetrachloroethylene (PCE)	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	80.8 %	14-186	
			MSD	ug/L	10.00	86.8 %	14-186	
			MSRPD	ug/L	10.00	7.1%	≤33	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	84.8 %	70-130	
Toluene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	82.1 %	3-174	
			MSD	ug/L	10.00	91.6 %	3-174	
			MSRPD	ug/L	10.00	11.0%	≤37	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	96.8 %	70-130	
trans-1,2-Dichloroethylene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	89.0 %	5-165	
			MSD	ug/L	10.00	88.2 %	5-165	
			MSRPD	ug/L	10.00	0.9%	≤40	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	105 %	70-130	
trans-1,3-Dichloropropene	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	80.5 %	0-169	
			MSD	ug/L	10.00	75.8 %	0-169	
			MSRPD	ug/L	10.00	6.0%	≤31	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	105 %	70-130	
Trichloroethylene (TCE)	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	89.5 %	11-167	
			MSD	ug/L	10.00	94.5 %	11-167	
			MSRPD	ug/L	10.00	5.4%	≤35	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	95.4 %	70-130	
Trichlorofluoromethane F-11	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	143 %	70-130	360
Trichlorotrifluoroethane F-113	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	105 %	0-183	
			MSD	ug/L	10.00	103 %	0-183	
			MSRPD	ug/L	10.00	2.1%	≤33	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	115 %	70-130	
Vinyl Chloride	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	155 %	0-208	
			MSD	ug/L	10.00	109 %	0-208	
			MSRPD	ug/L	10.00	34.7%	≤40	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	160 %	70-130	360
Xylenes m,p	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	20.00	75.2 %	0-193	
			MSD	ug/L	20.00	81.3 %	0-193	
			MSRPD	ug/L	10.00	7.8%	≤37	
	524.2	02/10/22:20160VRG	CCV	ug/L	20.00	88.0 %	70-130	
Xylenes o	524.2	02/10/22:201661VRG (SP 2201896-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	70.0 %	0-188	
			MSD	ug/L	10.00	77.2 %	0-188	
			MSRPD	ug/L	10.00	9.7%	≤36	
	524.2	02/10/22:20160VRG	CCV	ug/L	10.00	83.9 %	70-130	
Definition CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. 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.								

February 22, 2022

Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201896

Customer : 2-21676

Quality Control - Organic

Definition	
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.
Explanation	
360	: CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
362	: Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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

Condition Upon Receipt (Attach to COC) SP 2201896

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 / 7c / _____ / _____ / _____ / _____ / _____
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 **Daisy Aguayo**  Digitally signed by Daisy Aguayo
Title: Sample Receiving
Date: 02/03/2022-17:25:56

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 2201896
DA0-02/03/2022-17:25:56