

February 22, 2022

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

Lab ID : SP 2201895
 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 #4 (INDIAN WAY) ACTIVE	02/03/2022	02/03/2022	SP 2201895-001	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.
	02/07/2022:201936 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	02/08/2022:201992 All analysis quality controls are within established criteria.

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Inorganic - Metals QC

200.8	02/08/2022:201474 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
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	02/04/2022:202090 All analysis quality controls are within established criteria, except: The following note applies to Chloromethane(Methyl Chloride), Ethyl tert-Butyl Ether, Isopropyl Ether, Methylene Chloride, Methyl tert-Butyl Ether, te: 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
	02/04/2022:201569 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except: The following note applies to 1,1,2-Trichloroethane, Dibromomethane, Bromochloromethane, Methyl tert-Butyl Ether (MTBE), TAME: 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).
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).

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Inorganic - Wet Chemistry QC

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

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	1.4	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	10	10
200.7	1000 ²	ug/L	Copper	01042	ND	50
200.7	300 ²	ug/L	Iron	01045	180	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	0.3	
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	5	3
4500HB			Aggressiveness Index	82383	12.2	

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose,
² Indicates Secondary Drinking Water Standards(Recommended-Upper-Short Term)

ND - Not Detected at or above DLR

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

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

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	02/07/22:201936AC	CCV	ppm	1.000	98.9 %	90-110	
			CCB	ppm		0.00009	0.01	
			CCV	ppm	1.000	105 %	90-110	
			CCB	ppm		0.0003	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	
			CCB	ppm		0.0015	0.02	
			CCV	ppm	1.000	98.2 %	90-110	
			CCB	ppm		0.0032	0.02	
Aluminum	200.8	(STK2231831-001)	MS	ug/L	5.000	91.4 %	75-125	
			MSD	ug/L	5.000	85.9 %	75-125	
			MSRPD	ug/L	5.000	0.28	≤20	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	97.5 %	90-110	
			CCB	ppb		-0.01	10	
			CCV	ppb	50.00	104 %	90-110	
			CCB	ppb		0.009	10	
Antimony	200.8	(STK2231831-001)	MS	ug/L	5.000	92.4 %	75-125	
			MSD	ug/L	5.000	88.6 %	75-125	
			MSRPD	ug/L	5.000	0.19	≤1	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	98.9 %	90-110	
			CCB	ppb		-0.004	1	
			CCV	ppb	50.00	104 %	90-110	
			CCB	ppb		-0.005	1	
Arsenic	200.8	(STK2231831-001)	MS	ug/L	5.000	94.1 %	75-125	
			MSD	ug/L	5.000	90.9 %	75-125	
			MSRPD	ug/L	5.000	0.16	≤1	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	99.3 %	90-110	
			CCB	ppb		0.04	1	
			CCV	ppb	50.00	107 %	90-110	
			CCB	ppb		0.03	1	
Barium	200.8	(STK2231831-001)	MS	ug/L	5.000	95.5 %	75-125	
			MSD	ug/L	5.000	88.3 %	75-125	
			MSRPD	ug/L	5.000	0.36	≤1	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	101 %	90-110	
			CCB	ppb		0.006	0.2	
			CCV	ppb	50.00	106 %	90-110	
			CCB	ppb		0.017	0.2	
Beryllium	200.8	(STK2231831-001)	MS	ug/L	5.000	89.2 %	75-125	
			MSD	ug/L	5.000	84.4 %	75-125	
			MSRPD	ug/L	5.000	0.24	≤1	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	94.7 %	90-110	
			CCB	ppb		-0.047	0.2	
			CCV	ppb	50.00	103 %	90-110	
			CCB	ppb		-0.103	0.2	
Cadmium	200.8	(STK2231831-001)	MS	ug/L	5.000	95.8 %	75-125	
			MSD	ug/L	5.000	92.5 %	75-125	
			MSRPD	ug/L	5.000	3.6%	≤20	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	102 %	90-110	
			CCB	ppb		-0.003	0.2	
			CCV	ppb	50.00	107 %	90-110	
			CCB	ppb		-0.001	0.2	
Chromium	200.8	(STK2231831-001)	MS	ug/L	5.000	94.7 %	75-125	
			MSD	ug/L	5.000	87.8 %	75-125	
			MSRPD	ug/L	5.000	0.35	≤1	
	200.8	02/08/22:201992AC	CCV	ppb	50.00	98.7 %	90-110	

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Quality Control - Inorganic

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Metals									
Chromium	200.8	02/08/22:201992AC	CCB	ppb		-0.02	1		
			CCV	ppb	50.00	104 %	90-110		
			CCB	ppb		0.13	1		
Lead	200.8	(STK2231831-001)	MS	ug/L	5.000	93.3 %	75-125		
			MSD	ug/L	5.000	89.3 %	75-125		
			MSRPD	ug/L	5.000	4.4%	≤20		
	200.8	02/08/22:201992AC	CCV	ppb	50.00	101 %	90-110		
			CCB	ppb		-0.003	0.5		
			CCV	ppb	50.00	105 %	90-110		
CCB	ppb		-0.003	0.5					
Nickel	200.8	(STK2231831-001)	MS	ug/L	5.000	91.2 %	75-125		
			MSD	ug/L	5.000	88.0 %	75-125		
			MSRPD	ug/L	5.000	0.16	≤1		
	200.8	02/08/22:201992AC	CCV	ppb	50.00	101 %	90-110		
			CCB	ppb		0.03	1		
			CCV	ppb	50.00	105 %	90-110		
CCB	ppb		-0.03	1					
Selenium	200.8	(STK2231831-001)	MS	ug/L	5.000	97.3 %	75-125		
			MSD	ug/L	5.000	88.5 %	75-125		
			MSRPD	ug/L	5.000	0.44	≤1		
	200.8	02/08/22:201992AC	CCV	ppb	50.00	98.5 %	90-110		
			CCB	ppb		0.13	1		
			CCV	ppb	50.00	104 %	90-110		
CCB	ppb		0.09	1					
Silver	200.8	(STK2231831-001)	MS	ug/L	5.000	94.9 %	75-125		
			MSD	ug/L	5.000	90.7 %	75-125		
			MSRPD	ug/L	5.000	0.21	≤1		
	200.8	02/08/22:201992AC	CCV	ppb	50.00	102 %	90-110		
			CCB	ppb		0.001	1		
			CCV	ppb	50.00	106 %	90-110		
CCB	ppb		0.00	1					
Thallium	200.8	(STK2231831-001)	MS	ug/L	5.000	89.6 %	75-125		
			MSD	ug/L	5.000	86.4 %	75-125		
			MSRPD	ug/L	5.000	3.6%	≤20		
	200.8	02/08/22:201992AC	CCV	ppb	50.00	99.6 %	90-110		
			CCB	ppb		-0.002	0.2		
			CCV	ppb	50.00	103 %	90-110		
CCB	ppb		-0.002	0.2					
Vanadium	200.8	(STK2231831-001)	MS	ug/L	5.000	92.9 %	75-125		
			MSD	ug/L	5.000	88.1 %	75-125		
			MSRPD	ug/L	5.000	0.24	≤2		
	200.8	02/08/22:201992AC	CCV	ppb	50.00	99.2 %	90-110		
			CCB	ppb		-0.001	2		
			CCV	ppb	50.00	104 %	90-110		
CCB	ppb		0.03	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		
			MSD	ug/L	0.2000	111%	75-125		
	245.1	02/15/22:202381ac	(CC 2280376-001)	MSRPD	ug/L	0.2000	2.7%	≤20	
				CCV	ppt	200.0	102%	90-110	
				CCB	ppt		-1.56	20	
				CCV	ppt	200.0	98.5%	90-110	
CCB	ppt		-2.17	20					

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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 CaCO3)	2320B	(STK2231679-006)	Dup	mg/L		0.1%	10	
	2320B	02/14/22:202273AMM	CCV	mg/L	235.8	109 %	90-110	
			CCV	mg/L	235.8	101 %	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 (SP 2201647-001)	Blank Dup	umhos/cm umhos/cm		ND 0.4%	<1 5	
Total Dissolved Solids (TFR)	2540CE	02/07/22:201422CTL	Blank	mg/L		6.2	20	
		(STK2231665-001)	LCS	mg/L	991.0	98.3 %	90-110	
		(STK2231665-001)	Dup	mg/L		2.1%	5	
			Dup	mg/L		1.2%	5	
Chloride	300.0	02/03/22:201297NJB	Blank	mg/L		ND	<1	
		(VI 2240551-001)	LCS	mg/L	25.00	98.1 %	90-110	
			MS	mg/L	50.00	100 %	85-121	
			MSD	mg/L	50.00	101 %	85-121	
			MSRPD	mg/L	10.00	0.7%	≤19	
		(VI 2240550-002)	MS	mg/L	50.00	92.9 %	85-121	
			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	
		(VI 2240551-001)	LCS	mg/L	2.500	98.4 %	90-110	
			MS	mg/L	5.000	104 %	87-120	
			MSD	mg/L	5.000	104 %	87-120	
			MSRPD	mg/L	10.00	0.7%	≤16	
		(VI 2240550-002)	MS	mg/L	5.000	99.9 %	87-120	
			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	
		(VI 2240551-001)	LCS	mg/L	20.00	97.0 %	90-110	
			MS	mg/L	40.00	102 %	85-119	
			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	

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 2201895
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.
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.

February 22, 2022
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201895
Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	88.7 %	12-178	
1,1,1,2-Tetrachloroethane	524.2	02/04/22:202090VRG	MSD	ug/L	10.00	107 %	12-178	
			MSRPD	ug/L	10.00	19.1%	≤39	
1,1,1-Trichloroethane(TCA)	524.2	02/04/22:201569VRG (SP 2201895-001)	CCV	ug/L	10.00	105 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1,2-Tetrachloroethane	524.2	02/04/22:201569VRG (SP 2201895-001)	MS	ug/L	10.00	102 %	9-176	
			MSD	ug/L	10.00	133 %	9-176	
1,1,2-Trichloroethane	524.2	02/04/22:202090VRG	MSRPD	ug/L	10.00	26.2%	≤33	
			CCV	ug/L	10.00	112 %	70-130	
1,1,2-Tetrachloroethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	84.3 %	23-180	
1,1,2-Trichloroethane	524.2	02/04/22:201569VRG (SP 2201895-001)	MSD	ug/L	10.00	103 %	23-180	
			MSRPD	ug/L	10.00	20.3%	≤34	
1,1-Dichloroethane	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	106 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1-Dichloroethane	524.2	02/04/22:201569VRG (SP 2201895-001)	MS	ug/L	10.00	86.7 %	25-173	
			MSD	ug/L	10.00	117 %	25-173	
1,1-Dichloroethane	524.2	02/04/22:202090VRG	MSRPD	ug/L	10.00	30.1%	≤29	435
			CCV	ug/L	10.00	113 %	70-130	
1,1-Dichloroethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	101 %	15-161	
1,1-Dichloroethane	524.2	02/04/22:201569VRG (SP 2201895-001)	MSD	ug/L	10.00	134 %	15-161	
			MSRPD	ug/L	10.00	27.8%	≤36	
1,1-Dichloroethylene	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	118 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1-Dichloroethylene	524.2	02/04/22:201569VRG (SP 2201895-001)	MS	ug/L	10.00	98.3 %	0-162	
			MSD	ug/L	10.00	125 %	0-162	
1,1-Dichloroethylene	524.2	02/04/22:202090VRG	MSRPD	ug/L	10.00	24.2%	≤33	
			CCV	ug/L	10.00	107 %	70-130	
1,1-Dichloropropene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	94.4 %	0-171	
1,1-Dichloropropene	524.2	02/04/22:201569VRG (SP 2201895-001)	MSD	ug/L	10.00	126 %	0-171	
			MSRPD	ug/L	10.00	28.3%	≤31	
1,2,3-Trichlorobenzene	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	102 %	70-130	
			Blank	ug/L		ND	<0.5	
1,2,3-Trichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	MS	ug/L	10.00	75.2 %	14-181	
			MSD	ug/L	10.00	91.6 %	14-181	
1,2,3-Trichlorobenzene	524.2	02/04/22:202090VRG	MSRPD	ug/L	10.00	19.7%	≤34	
			CCV	ug/L	10.00	88.7 %	70-130	
1,2,4-Trichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	80.2 %	10-180	
1,2,4-Trichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	MSD	ug/L	10.00	100 %	10-180	
			MSRPD	ug/L	10.00	22.2%	≤32	
1,2,4-Trimethylbenzene	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	101 %	70-130	
			Blank	ug/L		ND	<0.5	
1,2,4-Trimethylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	MS	ug/L	10.00	87.1 %	2-192	
			MSD	ug/L	10.00	103 %	2-192	
1,2-Dichlorobenzene	524.2	02/04/22:202090VRG	MSRPD	ug/L	10.00	16.6%	≤39	
			CCV	ug/L	10.00	104 %	70-130	
1,2-Dichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	80.1 %	13-191	
1,2-Dichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	MSD	ug/L	10.00	98.4 %	13-191	
			MSRPD	ug/L	10.00	20.5%	≤35	
1,2-Dichlorobenzene	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	95.2 %	70-130	

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Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201895
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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,2-Dichlorobenzene-d4	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	88.0 %	70-130	
			MS	ug/L	10.00	111 %	70-130	
			MSD	ug/L	10.00	114 %	70-130	
			MSRPD	ug/L	10.00	2.4%	≤20	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	118 %	70-130	
1,2-Dichloroethane (EDC)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	102 %	18-162	
			MSD	ug/L	10.00	137 %	18-162	
			MSRPD	ug/L	10.00	29.4%	≤33	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	126 %	70-130	
1,2-Dichloropropane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	89.8 %	10-163	
			MSD	ug/L	10.00	116 %	10-163	
			MSRPD	ug/L	10.00	25.4%	≤34	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	106 %	70-130	
1,3,5-Trimethylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	78.1 %	0-210	
			MSD	ug/L	10.00	92.8 %	0-210	
			MSRPD	ug/L	10.00	17.2%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	88.3 %	70-130	
1,3-Dichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	85.2 %	17-182	
			MSD	ug/L	10.00	107 %	17-182	
			MSRPD	ug/L	10.00	22.7%	≤39	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	107 %	70-130	
1,3-Dichloropropane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	93.5 %	0-178	
			MSD	ug/L	10.00	120 %	0-178	
			MSRPD	ug/L	10.00	24.4%	≤29	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	119 %	70-130	
1,4-Dichlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	89.8 %	19-183	
			MSD	ug/L	10.00	109 %	19-183	
			MSRPD	ug/L	10.00	19.4%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	106 %	70-130	
2,2-Dichloropropane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	95.8 %	0-288	
			MSD	ug/L	10.00	125 %	0-288	
			MSRPD	ug/L	10.00	26.5%	≤33	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	113 %	70-130	
2-Chlorotoluene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	82.9 %	17-180	
			MSD	ug/L	10.00	108 %	17-180	
			MSRPD	ug/L	10.00	26.1%	≤38	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	96.3 %	70-130	
4-Bromofluorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	91.7 %	70-130	
			MS	ug/L	10.00	124 %	70-130	
			MSD	ug/L	10.00	127 %	70-130	
			MSRPD	ug/L	10.00	2.4%	≤30	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	126 %	70-130	
4-Chlorotoluene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	88.4 %	11-177	
			MSD	ug/L	10.00	110 %	11-177	
			MSRPD	ug/L	10.00	21.9%	≤41	

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Lab ID : SP 2201895
 Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
4-Chlorotoluene	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	106 %	70-130	
Benzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	88.8 %	12-158	
			MSD	ug/L	10.00	117 %	12-158	
			MSRPD	ug/L	10.00	27.4%	≤36	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	107 %	70-130	
Bromobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.9 %	23-177	
			MSD	ug/L	10.00	104 %	23-177	
			MSRPD	ug/L	10.00	27.7%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	97.8 %	70-130	
Bromochloromethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	82.2 %	4-186	
			MSD	ug/L	10.00	113 %	4-186	
			MSRPD	ug/L	10.00	31.3%	≤30	435
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	105 %	70-130	
Bromodichloromethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	104 %	11-164	
			MSD	ug/L	10.00	134 %	11-164	
			MSRPD	ug/L	10.00	25.5%	≤34	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	127 %	70-130	
Bromoform	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	103 %	0-235	
			MSD	ug/L	10.00	123 %	0-235	
			MSRPD	ug/L	10.00	17.5%	≤39	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	129 %	70-130	
Bromomethane (Methyl Bromide)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	95.2 %	0-196	
			MSD	ug/L	10.00	119 %	0-196	
			MSRPD	ug/L	10.00	22.3%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	120 %	70-130	
Carbon Tetrachloride	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	101 %	5-175	
			MSD	ug/L	10.00	131 %	5-175	
			MSRPD	ug/L	10.00	25.6%	≤32	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	104 %	70-130	
Chlorobenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	88.9 %	14-175	
			MSD	ug/L	10.00	107 %	14-175	
			MSRPD	ug/L	10.00	18.4%	≤35	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	104 %	70-130	
Chloroethane (Ethyl Chloride)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	102 %	0-184	
			MSD	ug/L	10.00	145 %	0-184	
			MSRPD	ug/L	10.00	35.5%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	121 %	70-130	
Chloroform	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	103 %	15-163	
			MSD	ug/L	10.00	128 %	15-163	
			MSRPD	ug/L	10.00	21.5%	≤36	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	119 %	70-130	
Chloromethane(Methyl Chloride)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	118 %	0-224	
			MSD	ug/L	10.00	153 %	0-224	

February 22, 2022
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201895
 Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Chloromethane(Methyl Chloride)	524.2	02/04/22:201569VRG	MSRPD	ug/L	10.00	25.9%	≤39	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	142 %	70-130	360
cis-1,2-Dichloroethylene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	95.6 %	16-172	
			MSD	ug/L	10.00	119 %	16-172	
			MSRPD	ug/L	10.00	21.6%	≤34	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	112 %	70-130	
cis-1,3-Dichloropropene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	94.4 %	5-158	
			MSD	ug/L	10.00	109 %	5-158	
			MSRPD	ug/L	10.00	14.8%	≤38	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	130 %	70-130	
Dibromochloromethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	94.2 %	1-180	
			MSD	ug/L	10.00	117 %	1-180	
			MSRPD	ug/L	10.00	21.3%	≤34	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	118 %	70-130	
Dibromomethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	86.4 %	11-168	
			MSD	ug/L	10.00	117 %	11-168	
			MSRPD	ug/L	10.00	30.3%	≤28	435
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	122 %	70-130	
Dichlorodifluoromethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	100 %	0-334	
			MSD	ug/L	10.00	134 %	0-334	
			MSRPD	ug/L	10.00	28.9%	≤39	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	115 %	70-130	
Dichloromethane	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	99.0 %	20-157	
			MSD	ug/L	10.00	117 %	20-157	
			MSRPD	ug/L	10.00	16.4%	≤36	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	144 %	70-130	
Ethyl tert-Butyl Ether	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	116 %	11-165	
			MSD	ug/L	10.00	146 %	11-165	
			MSRPD	ug/L	10.00	2.9	≤3	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	144 %	70-130	360
Ethylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	84.0 %	9-174	
			MSD	ug/L	10.00	106 %	9-174	
			MSRPD	ug/L	10.00	23.0%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	96.0 %	70-130	
Freon-11	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	117 %	0-232	
			MSD	ug/L	10.00	150 %	0-232	
			MSRPD	ug/L	10.00	24.4%	≤35	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	87.7 %	70-130	
Hexachlorobutadiene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.1 %	14-200	
			MSD	ug/L	10.00	106 %	14-200	
			MSRPD	ug/L	10.00	30.6%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	87.7 %	70-130	
Isopropyl Ether	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	124 %	8-165	
			MSD	ug/L	10.00	154 %	8-165	
			MSRPD	ug/L	10.00	3.0	≤3	

February 22, 2022
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 2201895
 Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Isopropyl Ether	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	151 %	70-130	360
Isopropylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	79.3 %	4-159	
			MSD	ug/L	10.00	100 %	4-159	
			MSRPD	ug/L	10.00	23.1%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	89.1 %	70-130	
Methyl tert-Butyl Ether	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	167 %	70-130	360
Methyl tert-Butyl Ether (MTBE)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	125 %	11-168	
			MSD	ug/L	10.00	163 %	11-168	
			MSRPD	ug/L	10.00	3.8	≤3	435
Methylene Chloride	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	200 %	70-130	360
Naphthalene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.8 %	0-189	
			MSD	ug/L	10.00	90.4 %	0-189	
			MSRPD	ug/L	10.00	13.6%	≤32	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	91.7 %	70-130	
n-Butylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	91.1 %	4-186	
			MSD	ug/L	10.00	111 %	4-186	
			MSRPD	ug/L	10.00	19.9%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	105 %	70-130	
n-Propylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	84.0 %	0-174	
			MSD	ug/L	10.00	106 %	0-174	
			MSRPD	ug/L	10.00	22.9%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	96.2 %	70-130	
p-Isopropyltoluene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	80.7 %	0-193	
			MSD	ug/L	10.00	99.9 %	0-193	
			MSRPD	ug/L	10.00	21.3%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	90.9 %	70-130	
sec-Butylbenzene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	82.0 %	0-177	
			MSD	ug/L	10.00	104 %	0-177	
			MSRPD	ug/L	10.00	23.8%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	90.5 %	70-130	
Styrene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	77.2 %	0-198	
			MSD	ug/L	10.00	85.9 %	0-198	
			MSRPD	ug/L	10.00	10.7%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	92.9 %	70-130	
TAME	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	107 %	15-162	
			MSD	ug/L	10.00	140 %	15-162	
			MSRPD	ug/L	10.00	3.3	≤3	435
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	138 %	70-130	360
tert-Butanol	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<2	
			MS	ug/L	50.00	132 %	0-198	
			MSD	ug/L	50.00	143 %	0-198	
			MSRPD	ug/L	10.00	8.0%	≤39	
	524.2	02/04/22:202090VRG	CCV	ug/L	50.00	150 %	70-130	360
tert-Butylbenzene	524.2	02/04/22:201569VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.1 %	9-179	

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic tert-Butylbenzene	524.2	(SP 2201895-001)	MSD	ug/L	10.00	99.1 %	9-179	
			MSRPD	ug/L	10.00	23.7%	≤38	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	88.8 %	70-130	
Tetrachloroethylene (PCE)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	83.1 %	14-186	
			MSD	ug/L	10.00	111 %	14-186	
			MSRPD	ug/L	10.00	28.8%	≤33	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	94.0 %	70-130	
Toluene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	89.2 %	3-174	
			MSD	ug/L	10.00	117 %	3-174	
			MSRPD	ug/L	10.00	26.5%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	104 %	70-130	
trans-1,2-Dichloroethylene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	97.1 %	5-165	
			MSD	ug/L	10.00	117 %	5-165	
			MSRPD	ug/L	10.00	18.9%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	107 %	70-130	
trans-1,3-Dichloropropene	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	95.2 %	0-169	
			MSD	ug/L	10.00	114 %	0-169	
			MSRPD	ug/L	10.00	18.3%	≤31	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	113 %	70-130	
Trichloroethylene (TCE)	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	91.6 %	11-167	
			MSD	ug/L	10.00	110 %	11-167	
			MSRPD	ug/L	10.00	18.0%	≤35	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	104 %	70-130	
Trichlorofluoromethane F-11	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	124 %	70-130	
Trichlorotrifluoroethane F-113	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	106 %	0-183	
			MSD	ug/L	10.00	142 %	0-183	
			MSRPD	ug/L	10.00	29.0%	≤33	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	99.8 %	70-130	
Vinyl Chloride	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	116 %	0-208	
			MSD	ug/L	10.00	146 %	0-208	
			MSRPD	ug/L	10.00	23.2%	≤40	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	128 %	70-130	
Xylenes m,p	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	20.00	80.1 %	0-193	
			MSD	ug/L	20.00	102 %	0-193	
			MSRPD	ug/L	10.00	24.4%	≤37	
	524.2	02/04/22:202090VRG	CCV	ug/L	20.00	95.8 %	70-130	
Xylenes o	524.2	02/04/22:201569VRG (SP 2201895-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	77.8 %	0-188	
			MSD	ug/L	10.00	96.6 %	0-188	
			MSRPD	ug/L	10.00	21.6%	≤36	
	524.2	02/04/22:202090VRG	CCV	ug/L	10.00	89.9 %	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 2201895
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.
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Condition Upon Receipt (Attach to COC) SP 2201895

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: 02/03/2022-17:25:20

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.
SP 2201895
 DA0-02/03/2022-17:25:20