

March 21, 2019

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

Lab ID : SP 1901767
 Customer : 2-21676

Laboratory Report

Introduction: This report package contains total of 23 pages divided into 3 sections:

Case Narrative (3 pages) : An overview of the work performed at FGL.
 Sample Results (6 pages) : Results for each sample submitted.
 Quality Control (14 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
Travel Blank	02/07/2019	02/07/2019	SP 1901767-000	LBW
Well #4 (Indian Way) Active	02/07/2019	02/07/2019	SP 1901767-001	DW

Sampling and Receipt Information: All samples were performed by FGL using the following methods (where applicable):

Bacteriological Sampling - SOP:200900141
 Grab sampling for liquids - SOP:200900137
 Composite sampling for liquids - SOP:200900139
 Grab sampling for solids - SOP:200900142
 Composite sampling for solids - SOP:200900143

All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

200.7	02/11/2019:202109 All analysis quality controls are within established criteria.
	02/11/2019:201491 All preparation quality controls are within established criteria.
200.8	02/09/2019:201904 All analysis quality controls are within established criteria.
	02/08/2019:201419 All preparation quality controls are within established criteria, except:

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Inorganic - Metals QC

200.8	The following note applies to Silver, Antimony: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Aluminum, Nickel: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
245.1	02/19/2019:202463 All analysis quality controls are within established criteria.
	02/19/2019:201874 All preparation quality controls are within established criteria.

Organic QC

504	02/16/2019:201478 All preparation quality controls are within established criteria.
504.1	02/17/2019:202373 All analysis quality controls are within established criteria.
507	02/23/2019:202669 All analysis quality controls are within established criteria.
	02/20/2019:201888 All preparation quality controls are within established criteria, except: The following note applies to Atrazine, EPN/Triphenylphosphate, Simazine: 436 Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery. The following note applies to Atrazine, EPN/Triphenylphosphate, Simazine: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.
524.2	02/13/2019:202145 All analysis quality controls are within established criteria, except: The following note applies to Bromomethane (Methyl Bromide), Chloroethane (Ethyl Chloride), Chloromethane(Methyl Chloride), Ethyl tert-Butyl Ether, Is: 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
	02/13/2019:201656 All preparation quality controls are within established criteria, except: The following note applies to Isopropyl Ether: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Ethyl tert-Butyl Ether, Isopropyl Ether: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Inorganic - Wet Chemistry QC

2120B	02/07/2019:202477 All analysis quality controls are within established criteria.
	02/07/2019:201908 All preparation quality controls are within established criteria.
2130B	02/08/2019:201895 All analysis quality controls are within established criteria.
	02/08/2019:201444 All preparation quality controls are within established criteria.
2150B	02/07/2019:201906 All preparation quality controls are within established criteria.
2320B	02/12/2019:202040 All analysis quality controls are within established criteria.
	02/12/2019:201537 All preparation quality controls are within established criteria.
2510B	02/12/2019:202004 All analysis quality controls are within established criteria.
	02/12/2019:201534 All preparation quality controls are within established criteria.
2540CE	02/11/2019:201510 All preparation quality controls are within established criteria.
300.0	02/07/2019:201797 All analysis quality controls are within established criteria.
	02/07/2019:201420 All preparation quality controls are within established criteria.
5540C	02/08/2019:202160 All analysis quality controls are within established criteria.
	02/08/2019:201677 All preparation quality controls are within established criteria.

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 **David Terz, B.A., M.B.A.**



Digitally signed by David Terz, B.A., M.B.A.
Title: QA Director
Date: 2019-03-22

ORGANIC CHEMICALS ANALYSIS

Date of Report	: March 21, 2019	Sample ID	: SP 1901767-000
Laboratory Name	: FGL Environmental	Approved By	: David Terz, B.A., M.B.A.  Digitally signed by David Terz, B.A., M.B.A. Title: QA Director Date: 2019-03-22
Sampled On	: 02/07/2019-00:00		
Received On	: 02/07/2019-15:15	Sampler	: Victor Rodriguez
Completed On	: 02/17/2019	Employed By	: FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number :

Name Or Number of Sample Source : TRAVEL BLANK

User ID	:	Station Number	:
Date/Time of Sample	:	Laboratory Code	:
Submitted By	:	Phone #	:

1902070000 5 8 6 7
 YYMMDDTTTT
FGL Environmental (805) 392-2000

REGULATED ORGANICS CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
504.1	Dibromochloropropane (DBCP)	38761	ND	0.2	0.01
504.1	Ethylene Dibromide (EDB)	77651	ND	0.05	0.02

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

INORGANIC CHEMICALS ANALYSIS

Date of Report : March 21, 2019 Sample ID : SP 1901767-001
 Laboratory Name : **FGL Environmental** Approved By **David Terz, B.A., M.B.A.** Digitally signed by David Terz, B.A., M.B.A. Title: QA Director Date: 2019-03-22
 Sampled On : 02/07/2019-10:50
 Received On : 02/07/2019-15:15 Sampler : Victor Rodriguez
 Completed On : 02/19/2019 Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-007 **EDT**

Name Or Number of Sample Source : WELL #4 (INDIAN WAY) ACTIVE

User ID	: 42C	Station Number	: 4200612-007
Date/Time of Sample	: 1902071050	Laboratory Code	: 5 8 6 7
	YYMMDDTTTT		
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

GENERAL MINERAL & PHYSICAL

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
	mg/L	Total Hardness (as CaCO ₃)	00900	390	1
	mg/L	Calcium (Ca)	00916	82	1
	mg/L	Magnesium (Mg)	00927	45	1
	mg/L	Sodium (Na)	00929	45	1
	mg/L	Potassium (K)	00937	2	1
	meq/L	Total Cations		9.8	
	mg/L	Total Alkalinity (as CaCO ₃)	00410	70	10
	mg/L	Hydroxide (OH)	71830	ND	10
	mg/L	Carbonate (CO ₃)	00445	ND	10
	mg/L	Bicarbonate (HCO ₃)	00440	280	10
* ²	mg/L	Sulfate (SO ₄)	00945	208	0.5
* ²	mg/L	Chloride (Cl)	00940	29	1
45	mg/L	Nitrate (NO ₃)	71850	ND	2
2	mg/L	Fluoride (F)	00951	0.3	0.1
	meq/L	Total Anions		9.8	
	Std Units	pH	00403	7.5	
** ²		Specific Conductance (E.C.)	00095	920	1
	umhos/cm ²				
*** ²	mg/L	Total Filterable Residue	70300	580	40
15 ²	Units	Apparent Color (Unfiltered)	00081	10	5
3 ²	TON	Odor Threshold at 60 °C	00086	ND	1

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) * 250-500-600 ** 900-1600-2200 *** 500-1000-1500

GENERAL MINERAL & PHYSICAL

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
5	NTU	Lab Turbidity	82079	1.6	0.1

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
1000	ug/L	Aluminum	01105	ND	50
6	ug/L	Antimony	01097	ND	6
10	ug/L	Arsenic	01002	ND	2
1000	ug/L	Barium	01007	ND	100
4	ug/L	Beryllium	01012	ND	1
5	ug/L	Cadmium	01027	ND	1
50	ug/L	Chromium (Total Cr)	01034	ND	10
1000 ²	ug/L	Copper	01042	ND	50
300 ²	ug/L	Iron	01045	390	100
15	ug/L	Lead	01051	ND	5
50 ²	ug/L	Manganese	01055	ND	20
2	ug/L	Mercury	71900	ND	1
100	ug/L	Nickel	01067	ND	10
50	ug/L	Selenium	01147	ND	5
100 ²	ug/L	Silver	01077	ND	10
2	ug/L	Thallium	01059	ND	1
	ug/L	Zinc	01092	ND	50

ADDITIONAL INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
---	ug/L	Boron	01020	300	100
		Langelier Index at 20 °C	71814	-0.2	
10	mg/L	Nitrate as N (Nitrogen)	00618	ND	0.4
10	mg/L	Nitrate + Nitrite as N	A-029	0.3	0.2
1	mg/L	Nitrite as N (Nitrogen)	00620	ND	0.4
---	ug/L	Vanadium	01087	3	3
		Aggressiveness Index	82383	11.7	

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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	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	Total Xylenes (m,p & o)	81551	ND	1750	0.5
504.1	Dibromochloropropane (DBCP)	38761	ND	0.2	0.01
504.1	Ethylene Dibromide (EDB)	77651	ND	0.05	0.02
507	Atrazine (AAtrex)	39033	ND	1	0.5
507	Simazine (Princep)	39055	ND	4	1
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

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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	Isopropylbenzene (Cumene)	77223	ND	---	0.5
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 - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
1,2-Dibromoethane(EDB)	504	02/16/19:201478BJW (STK1931948-001)	Blank	ug/L		ND	<0.02	
			QMDL	ug/L	0.01950	118 %	0-300	
			LCS	ug/L	0.2449	97.3 %	70-130	
			LCS	ug/L	0.2476	106 %	70-130	
			MS	ug/L	0.2460	103 %	70-130	
			MSD	ug/L	0.2498	92.8 %	70-130	
1,3-Dibromopropane	504	02/16/19:201478BJW (STK1931948-001)	Blank	ug/L	0.5726	98.4 %	70-130	
			QMDL	ug/L	0.5763	103 %	70-130	
			LCS	ug/L	0.5748	94.3 %	70-130	
			LCS	ug/L	0.5811	101 %	70-130	
			MS	ug/L	0.5773	103 %	70-130	
			MSD	ug/L	0.5862	90.5 %	70-130	
DBCP	504	02/16/19:201478BJW (STK1931948-001)	Blank	ug/L		ND	<0.01	
			QMDL	ug/L	0.01950	24.1 %	0-300	
			LCS	ug/L	0.2449	102 %	70-130	
			LCS	ug/L	0.2476	108 %	70-130	
			MS	ug/L	0.2460	122 %	70-130	
			MSD	ug/L	0.2498	106 %	70-130	
13DBP	504.1	02/17/19:202373BJW	CCV	ug/L	7.481	95.7 %	70-130	
			CCV	ug/L	9.975	98.5 %	70-130	
DBCP	504.1	02/17/19:202373BJW	CCV	ug/L	2.000	95.0 %	70-130	
			CCV	ug/L	5.000	110 %	70-130	
EDB	504.1	02/17/19:202373BJW	CCV	ug/L	2.000	87.5 %	70-130	
			CCV	ug/L	5.000	91.8 %	70-130	
Atrazine	507	02/20/19:201888CAA	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	102 %	70-130	
			BS	ug/L	2.500	27.9 %	52-154	436
			BSD	ug/L	2.500	93.8 %	52-154	
			BSRPD	ug/L	12.50	1.6	≤0.5	410
EPN/Triphenylphosphate	507	02/20/19:201888CAA	Blank	ug/L	12.50	96.6 %	70-130	
			LCS	ug/L	12.50	111 %	70-130	
			BS	ug/L	12.50	34.3 %	70-130	436
			BSD	ug/L	12.50	96.4 %	70-130	
			BSRPD	ug/L	12.50	95.1 %	≤30	410
Simazine	507	02/20/19:201888CAA	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	98.5 %	70-130	
			BS	ug/L	2.500	24.5 %	49-167	436
			BSD	ug/L	2.500	90.9 %	49-167	
			BSRPD	ug/L	12.50	1.7	≤0.5	410
Triphenylphosphate	507	02/23/19:202669SG	CCV	ug/L	7488	105 %	80-120	
			CCV	ug/L	2500	107 %	80-120	
1,1,1,2-Tetrachloroethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	110 %	12-178	
			MSD	ug/L	10.00	118 %	12-178	
			MSRPD	ug/L	10.00	7.3 %	≤39	
1,1,1-Trichloroethane(TCA)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	133 %	9-176	
			MSD	ug/L	10.00	143 %	9-176	
			MSRPD	ug/L	10.00	7.6 %	≤33	
1,1,2,2-Tetrachloroethane	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	106 %	70-130	
			Blank	ug/L		ND	<0.5	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,1,2,2-Tetrachloroethane	524.2	(SP 1901941-001)	MS	ug/L	10.00	83.8 %	23-180	
			MSD	ug/L	10.00	87.2 %	23-180	
			MSRPD	ug/L	10.00	4.0%	≤34	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	89.4 %	70-130	
1,1,2-Trichloroethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	82.7 %	25-173	
			MSD	ug/L	10.00	95.5 %	25-173	
			MSRPD	ug/L	10.00	14.3%	≤29	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	89.5 %	70-130	
1,1-Dichloroethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	112 %	15-161	
			MSD	ug/L	10.00	123 %	15-161	
			MSRPD	ug/L	10.00	8.9%	≤36	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	107 %	70-130	
1,1-Dichloroethylene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	110 %	0-162	
			MSD	ug/L	10.00	120 %	0-162	
			MSRPD	ug/L	10.00	9.3%	≤33	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	87.3 %	70-130	
1,1-Dichloropropene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	126 %	0-171	
			MSD	ug/L	10.00	134 %	0-171	
			MSRPD	ug/L	10.00	6.4%	≤31	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	92.8 %	70-130	
1,2,3-Trichlorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	111 %	14-181	
			MSD	ug/L	10.00	122 %	14-181	
			MSRPD	ug/L	10.00	9.6%	≤34	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	125 %	70-130	
1,2,4-Trichlorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	119 %	10-180	
			MSD	ug/L	10.00	127 %	10-180	
			MSRPD	ug/L	10.00	6.9%	≤32	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	123 %	70-130	
1,2,4-Trimethylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	111 %	2-192	
			MSD	ug/L	10.00	127 %	2-192	
			MSRPD	ug/L	10.00	13.2%	≤39	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	108 %	70-130	
1,2-Dichlorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	110 %	13-191	
			MSD	ug/L	10.00	119 %	13-191	
			MSRPD	ug/L	10.00	8.0%	≤35	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	110 %	70-130	
1,2-Dichlorobenzene-d4	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L	10.00	91.8 %	70-130	
			MS	ug/L	10.00	110 %	70-130	
			MSD	ug/L	10.00	114 %	70-130	
			MSRPD	ug/L	10.00	3.7%	≤20	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	105 %	70-130	
1,2-Dichloroethane (EDC)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	104 %	18-162	
			MSD	ug/L	10.00	107 %	18-162	
			MSRPD	ug/L	10.00	2.7%	≤33	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	106 %	70-130	

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Lab ID : SP 1901767
 Customer : 2-21676

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,2-Dichloropropane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	103 %	10-163	
MSD			ug/L	10.00	104 %	10-163		
MSRPD			ug/L	10.00	1.6%	≤34		
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	107 %	70-130	
1,3,5-Trimethylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	114 %	0-210	
			MSD	ug/L	10.00	127 %	0-210	
			MSRPD	ug/L	10.00	10.7%	≤40	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	102 %	70-130	
1,3-Dichlorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	117 %	17-182	
			MSD	ug/L	10.00	129 %	17-182	
			MSRPD	ug/L	10.00	9.4%	≤39	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	115 %	70-130	
1,3-Dichloropropane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	96.1 %	0-178	
			MSD	ug/L	10.00	103 %	0-178	
			MSRPD	ug/L	10.00	7.3%	≤29	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	98.8 %	70-130	
1,4-Dichlorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	119 %	19-183	
			MSD	ug/L	10.00	134 %	19-183	
			MSRPD	ug/L	10.00	11.2%	≤37	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	118 %	70-130	
2,2-Dichloropropane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	151 %	0-288	
			MSD	ug/L	10.00	162 %	0-288	
			MSRPD	ug/L	10.00	7.5%	≤33	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	126 %	70-130	
2-Chlorotoluene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	111 %	17-180	
			MSD	ug/L	10.00	119 %	17-180	
			MSRPD	ug/L	10.00	7.3%	≤38	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	104 %	70-130	
4-Bromofluorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L	10.00	87.3 %	70-130	
			MS	ug/L	10.00	121 %	70-130	
			MSD	ug/L	10.00	121 %	70-130	
			MSRPD	ug/L	10.00	0.08%	≤30	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	114 %	70-130	
4-Bromofluorobenzene (BFB)	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	114 %	70-130	
4-Chlorotoluene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	108 %	11-177	
			MSD	ug/L	10.00	122 %	11-177	
			MSRPD	ug/L	10.00	12.0%	≤41	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	101 %	70-130	
Benzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	111 %	12-158	
			MSD	ug/L	10.00	115 %	12-158	
			MSRPD	ug/L	10.00	3.5%	≤36	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	100 %	70-130	
Bromobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	106 %	23-177	
			MSD	ug/L	10.00	116 %	23-177	
			MSRPD	ug/L	10.00	9.4%	≤40	

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Lab ID : SP 1901767
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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Bromobenzene	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	104 %	70-130	
Bromochloromethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	91.6 %	4-186	
	524.2	02/13/19:202145VRG	MSD	ug/L	10.00	100 %	4-186	
			MSRPD	ug/L	10.00	9.0%	≤30	
Bromodichloromethane	524.2	02/13/19:201656VRG (SP 1901941-001)	CCV	ug/L	10.00	98.7 %	70-130	
			Blank	ug/L		ND	<0.5	
	524.2	02/13/19:201656VRG	MS	ug/L	10.00	93.6 %	11-164	
			MSD	ug/L	10.00	89.0 %	11-164	
	524.2	02/13/19:202145VRG	MSRPD	ug/L	10.00	3.5%	≤34	
			CCV	ug/L	10.00	94.9 %	70-130	
Bromoform	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	78.3 %	0-235	
	524.2	02/13/19:202145VRG	MSD	ug/L	10.00	66.1 %	0-235	
			MSRPD	ug/L	10.00	3.5%	≤39	
Bromomethane (Methyl Bromide)	524.2	02/13/19:201656VRG (SP 1901941-001)	CCV	ug/L	10.00	94.6 %	70-130	
			Blank	ug/L		ND	<0.5	
	524.2	02/13/19:201656VRG	MS	ug/L	10.00	140 %	0-196	
			MSD	ug/L	10.00	137 %	0-196	
	524.2	02/13/19:202145VRG	MSRPD	ug/L	10.00	2.2%	≤40	
			CCV	ug/L	10.00	142 %	70-130	360
Carbon Tetrachloride	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	135 %	5-175	
	524.2	02/13/19:202145VRG	MSD	ug/L	10.00	139 %	5-175	
			MSRPD	ug/L	10.00	3.3%	≤32	
Chlorobenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	CCV	ug/L	10.00	100 %	70-130	
			Blank	ug/L		ND	<0.5	
	524.2	02/13/19:201656VRG	MS	ug/L	10.00	112 %	14-175	
			MSD	ug/L	10.00	122 %	14-175	
	524.2	02/13/19:202145VRG	MSRPD	ug/L	10.00	8.8%	≤35	
			CCV	ug/L	10.00	106 %	70-130	
Chloroethane (Ethyl Chloride)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	165 %	0-184	
	524.2	02/13/19:202145VRG	MSD	ug/L	10.00	158 %	0-184	
			MSRPD	ug/L	10.00	4.5%	≤40	
Chloroform	524.2	02/13/19:201656VRG (SP 1901941-001)	CCV	ug/L	10.00	148 %	70-130	360
			Blank	ug/L		ND	<0.5	
	524.2	02/13/19:201656VRG	MS	ug/L	10.00	107 %	15-163	
			MSD	ug/L	10.00	123 %	15-163	
	524.2	02/13/19:202145VRG	MSRPD	ug/L	10.00	12.9%	≤36	
			CCV	ug/L	10.00	107 %	70-130	
Chloromethane(Methyl Chloride)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	142 %	0-224	
	524.2	02/13/19:202145VRG	MSD	ug/L	10.00	142 %	0-224	
			MSRPD	ug/L	10.00	0.2%	≤39	
cis-1,2-Dichloroethylene	524.2	02/13/19:201656VRG (SP 1901941-001)	CCV	ug/L	10.00	136 %	70-130	360
			Blank	ug/L		ND	<0.5	
	524.2	02/13/19:201656VRG	MS	ug/L	10.00	111 %	16-172	
			MSD	ug/L	10.00	121 %	16-172	
	524.2	02/13/19:202145VRG	MSRPD	ug/L	10.00	8.4%	≤34	
			CCV	ug/L	10.00	109 %	70-130	
cis-1,3-Dichloropropene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	9.550	83.2 %	5-158	
			MSD	ug/L	9.550	87.5 %	5-158	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic cis-1,3-Dichloropropene	524.2	02/13/19:201656VRG	MSRPD	ug/L	10.00	5.0%	≤38	
	524.2	02/13/19:202145VRG	CCV	ug/L	9.550	102 %	70-130	
Dibromochloromethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	81.3 %	1-180	
			MSD	ug/L	10.00	86.9 %	1-180	
			MSRPD	ug/L	10.00	2.3%	≤34	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	93.0 %	70-130		
Dibromomethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	84.8 %	11-168	
			MSD	ug/L	10.00	92.0 %	11-168	
			MSRPD	ug/L	10.00	8.0%	≤28	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	90.9 %	70-130		
Dichlorodifluoromethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	103 %	0-334	
			MSD	ug/L	10.00	114 %	0-334	
			MSRPD	ug/L	10.00	10.0%	≤39	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	70.0 %	70-130		
Dichloromethane	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	91.8 %	20-157	
			MSD	ug/L	10.00	99.5 %	20-157	
			MSRPD	ug/L	10.00	8.1%	≤36	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	156 %	70-130		
Ethyl tert-Butyl Ether	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	149 %	11-165	
			MSD	ug/L	10.00	165 %	11-165	
			MSRPD	ug/L	10.00	9.9%	≤4	435
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	156 %	70-130	360	
Ethylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	101 %	9-174	
			MSD	ug/L	10.00	110 %	9-174	
			MSRPD	ug/L	10.00	8.4%	≤37	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	86.0 %	70-130		
Freon-11	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	188 %	0-232	
			MSD	ug/L	10.00	184 %	0-232	
			MSRPD	ug/L	10.00	1.9%	≤35	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	114 %	70-130		
Hexachlorobutadiene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	142 %	14-200	
			MSD	ug/L	10.00	154 %	14-200	
			MSRPD	ug/L	10.00	8.0%	≤40	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	114 %	70-130		
Isopropyl Ether	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	161 %	8-165	
			MSD	ug/L	10.00	188 %	8-165	435
			MSRPD	ug/L	10.00	15.2%	≤11	435
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	179 %	70-130	360	
Isopropylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	105 %	4-159	
			MSD	ug/L	10.00	113 %	4-159	
			MSRPD	ug/L	10.00	6.7%	≤37	
524.2	02/13/19:202145VRG	CCV	ug/L	10.00	92.3 %	70-130		
Methyl tert-Butyl Ether	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	127 %	70-130	
Methyl tert-Butyl Ether (MTBE)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<1.0	
			MS	ug/L	10.00	114 %	11-168	
			MSD	ug/L	10.00	122 %	11-168	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Methyl tert-Butyl Ether (MTBE)	524.2	02/13/19:201656VRG	MSRPD	ug/L	10.00	7.1%	≤29	
Methylene Chloride	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	247 %	70-130	360
Naphthalene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	72.9 %	0-189	
			MSD	ug/L	10.00	79.1 %	0-189	
			MSRPD	ug/L	10.00	8.2%	≤32	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	83.6 %	70-130	
n-Butylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	107 %	4-186	
			MSD	ug/L	10.00	119 %	4-186	
			MSRPD	ug/L	10.00	10.4%	≤37	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	90.2 %	70-130	
n-Propylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	107 %	0-174	
			MSD	ug/L	10.00	118 %	0-174	
			MSRPD	ug/L	10.00	9.2%	≤37	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	93.0 %	70-130	
p-Isopropyltoluene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	114 %	0-193	
			MSD	ug/L	10.00	128 %	0-193	
			MSRPD	ug/L	10.00	11.3%	≤40	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	99.9 %	70-130	
sec-Butylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	112 %	0-177	
			MSD	ug/L	10.00	127 %	0-177	
			MSRPD	ug/L	10.00	12.7%	≤40	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	96.9 %	70-130	
Styrene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	101 %	0-198	
			MSD	ug/L	10.00	105 %	0-198	
			MSRPD	ug/L	10.00	4.4%	≤37	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	94.0 %	70-130	
TAME	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	112 %	15-162	
			MSD	ug/L	10.00	122 %	15-162	
			MSRPD	ug/L	10.00	1.1	≤3	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	117 %	70-130	
tert-Butanol	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<2	
			MS	ug/L	50.00	131 %	0-198	
			MSD	ug/L	50.00	142 %	0-198	
			MSRPD	ug/L	10.00	8.2%	≤39	
	524.2	02/13/19:202145VRG	CCV	ug/L	50.00	160 %	70-130	360
tert-Butylbenzene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	116 %	9-179	
			MSD	ug/L	10.00	128 %	9-179	
			MSRPD	ug/L	10.00	9.8%	≤38	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	99.3 %	30-130	
Tetrachloroethylene (PCE)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	117 %	14-186	
			MSD	ug/L	10.00	123 %	14-186	
			MSRPD	ug/L	10.00	5.6%	≤33	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	93.4 %	70-130	
Toluene	524.2	02/13/19:201656VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	112 %	3-174	

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic Toluene	524.2	(SP 1901941-001)	MSD	ug/L	10.00	122 %	3-174	
			MSRPD	ug/L	10.00	9.2%	≤37	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	101 %	30-130	
trans-1,2-Dichloroethylene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	104 %	5-165	
			MSD	ug/L	10.00	116 %	5-165	
			MSRPD	ug/L	10.00	10.3%	≤40	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	91.9 %	70-130	
trans-1,3-Dichloropropene	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	9.200	85.3 %	0-169	
			MSD	ug/L	9.200	87.8 %	0-169	
			MSRPD	ug/L	10.00	3.0%	≤31	
				524.2	02/13/19:202145VRG	CCV	ug/L	9.200
Trichloroethylene (TCE)	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	110 %	11-167	
			MSD	ug/L	10.00	120 %	11-167	
			MSRPD	ug/L	10.00	8.8%	≤35	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	92.1 %	70-130	
Trichlorofluoromethane F-11	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	124 %	70-130	
Trichlorotrifluoroethane F-113	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	112 %	0-183	
			MSD	ug/L	10.00	120 %	0-183	
			MSRPD	ug/L	10.00	6.5%	≤33	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	76.2 %	70-130	
Vinyl Chloride	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	168 %	0-208	
			MSD	ug/L	10.00	168 %	0-208	
			MSRPD	ug/L	10.00	0.02%	≤40	
	524.2	02/13/19:202145VRG	CCV	ug/L	10.00	132 %	30-130	360
Xylenes m,p	524.2	02/13/19:201656VRG (SP 1901941-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	20.00	109 %	0-193	
			MSD	ug/L	20.00	114 %	0-193	
			MSRPD	ug/L	10.00	4.4%	≤37	
	524.2	02/13/19:202145VRG	CCV	ug/L	20.00	89.7 %	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.								
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.								
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.								
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								
360 : CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.								

March 21, 2019
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 1901767
Customer : 2-21676

Quality Control - Organic

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.
436	: Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.

March 21, 2019
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 1901767
 Customer : 2-21676

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Boron	200.7	(SP 1901767-001)	MS	mg/L	4.000	109 %	75-125	
			MSD	mg/L	4.000	109 %	75-125	
			MSRPD	mg/L	4000	0.04%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	5.000	101 %	90-110	
CCB			ppm		0.0006	0.1		
CCV			ppm	5.000	99.8 %	90-110		
CCB			ppm		-0.002	0.1		
Calcium	200.7	(SP 1901767-001)	MS	mg/L	12.00	74.2 %	<¼	
			MSD	mg/L	12.00	89.0 %	75-125	
			MSRPD	mg/L	4000	1.9%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	25.00	98.6 %	90-110	
CCB			ppm		0.008	1		
CCV			ppm	25.00	101 %	90-110		
CCB			ppm		-0.03	1		
Copper	200.7	(SP 1901767-001)	MS	ug/L	800.0	108 %	75-125	
			MSD	ug/L	800.0	107 %	75-125	
			MSRPD	ug/L	4000	1.0%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	1.000	100 %	90-110	
CCB			ppm		0.0012	0.01		
CCV			ppm	1.000	102 %	90-110		
CCB			ppm		0.0010	0.01		
Iron	200.7	(SP 1901767-001)	MS	ug/L	4000	106 %	75-125	
			MSD	ug/L	4000	106 %	75-125	
			MSRPD	ug/L	4000	0.1%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	5.000	98.7 %	90-110	
CCB			ppm		-0.0071	0.03		
CCV			ppm	5.000	98.8 %	90-110		
CCB			ppm		-0.0001	0.03		
Magnesium	200.7	(SP 1901767-001)	MS	mg/L	12.00	87.5 %	75-125	
			MSD	mg/L	12.00	93.4 %	75-125	
			MSRPD	mg/L	4000	1.3%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	25.00	102 %	90-110	
CCB			ppm		0.001	1		
CCV			ppm	25.00	104 %	90-110		
CCB			ppm		0.0002	1		
Manganese	200.7	(SP 1901767-001)	MS	ug/L	800.0	107 %	75-125	
			MSD	ug/L	800.0	107 %	75-125	
			MSRPD	ug/L	4000	0.03%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	1.000	100 %	90-110	
CCB			ppm		-0.0009	0.01		
CCV			ppm	1.000	102 %	90-110		
CCB			ppm		0.0010	0.01		
Potassium	200.7	(SP 1901767-001)	MS	mg/L	12.00	105 %	75-125	
			MSD	mg/L	12.00	107 %	75-125	
			MSRPD	mg/L	4000	1.4%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	25.00	97.5 %	90-110	
CCB			ppm		-0.16	1		
CCV			ppm	25.00	100 %	90-110		
CCB			ppm		-0.09	1		
Sodium	200.7	(SP 1901767-001)	MS	mg/L	12.00	87.1 %	75-125	
			MSD	mg/L	12.00	93.3 %	75-125	
			MSRPD	mg/L	4000	1.3%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	25.00	99.9 %	90-110	
CCB			ppm		0.001	1		
CCV			ppm	25.00	102 %	90-110		

March 21, 2019
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 1901767
 Customer : 2-21676

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Sodium	200.7	02/11/19:202109AC	CCB	ppm		0.05	1	
Zinc	200.7	(SP 1901767-001)	MS	ug/L	800.0	102 %	75-125	
			MSD	ug/L	800.0	102 %	75-125	
			MSRPD	ug/L	4000	0.5%	≤20.0	
	200.7	02/11/19:202109AC	CCV	ppm	1.000	96.6 %	90-110	
			CCB	ppm		-0.0002	0.02	
			CCV	ppm	1.000	95.5 %	90-110	
			CCB	ppm		-0.0002	0.02	
Aluminum	200.8	(SP 1901761-001)	MS	ug/L	5.000	-116 %	<¼	
			MSD	ug/L	5.000	-532 %	<¼	
			MSRPD	ug/L	5.000	21	≤10	435
	200.8	02/09/19:201904AC	CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		-0.2	10	
			CCV	ppb	120.0	100 %	90-110	
			CCB	ppb		0.03	10	
Antimony	200.8	(SP 1901761-001)	MS	ug/L	5.000	127 %	75-125	435
			MSD	ug/L	5.000	118 %	75-125	
			MSRPD	ug/L	5.000	7.2%	≤20	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	110 %	90-110	
			CCB	ppb		-0.02	1	
			CCV	ppb	120.0	108 %	90-110	
			CCB	ppb		-0.009	1	
Arsenic	200.8	(SP 1901761-001)	MS	ug/L	5.000	113 %	75-125	
			MSD	ug/L	5.000	103 %	75-125	
			MSRPD	ug/L	5.000	7.6%	≤20	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		0.05	1	
			CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		0.05	1	
Barium	200.8	(SP 1901761-001)	MS	ug/L	5.000	73.6 %	<¼	
			MSD	ug/L	5.000	66.0 %	<¼	
			MSRPD	ug/L	5.000	0.9%	≤20	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	102 %	90-110	
			CCB	ppb		-0.023	0.2	
			CCV	ppb	120.0	102 %	90-110	
			CCB	ppb		-0.003	0.2	
Beryllium	200.8	(SP 1901761-001)	MS	ug/L	5.000	105 %	75-125	
			MSD	ug/L	5.000	94.4 %	75-125	
			MSRPD	ug/L	5.000	10.7%	≤20	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	99.0 %	90-110	
			CCB	ppb		0.016	0.2	
			CCV	ppb	120.0	96.1 %	90-110	
			CCB	ppb		0.019	0.2	
Cadmium	200.8	(SP 1901761-001)	MS	ug/L	5.000	117 %	75-125	
			MSD	ug/L	5.000	106 %	75-125	
			MSRPD	ug/L	5.000	9.9%	≤20	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	103 %	90-110	
			CCB	ppb		-0.002	0.2	
			CCV	ppb	120.0	102 %	90-110	
			CCB	ppb		0.009	0.2	
Chromium	200.8	(SP 1901761-001)	MS	ug/L	5.000	110 %	75-125	
			MSD	ug/L	5.000	101 %	75-125	
			MSRPD	ug/L	5.000	8.9%	≤20	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	99.5 %	90-110	

March 21, 2019
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 1901767
 Customer : 2-21676

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Metals									
Chromium	200.8	02/09/19:201904AC	CCB	ppb		-0.005	1		
			CCV	ppb	120.0	100 %	90-110		
			CCB	ppb		0.02		1	
Lead	200.8	(SP 1901761-001)	MS	ug/L	5.000	113 %	75-125		
			MSD	ug/L	5.000	104 %	75-125		
			MSRPD	ug/L	5.000	7.4%	≤20		
	200.8	02/09/19:201904AC	CCV	ppb	120.0	102 %	90-110		
			CCB	ppb		-0.008	0.5		
			CCV	ppb	120.0	103 %	90-110		
			CCB	ppb		-0.004	0.5		
Nickel	200.8	(SP 1901761-001)	MS	ug/L	5.000	-300 %	<¼		
			MSD	ug/L	5.000	-340 %	<¼		
			MSRPD	ug/L	5.000	29.0%	≤20	435	
	200.8	02/09/19:201904AC	CCV	ppb	120.0	100 %	90-110		
			CCB	ppb		-0.04	1		
			CCV	ppb	120.0	99.8 %	90-110		
			CCB	ppb		-0.02	1		
Selenium	200.8	(SP 1901761-001)	MS	ug/L	5.000	114 %	75-125		
			MSD	ug/L	5.000	102 %	75-125		
			MSRPD	ug/L	5.000	9.2%	≤20		
	200.8	02/09/19:201904AC	CCV	ppb	120.0	104 %	90-110		
			CCB	ppb		0.24	1		
			CCV	ppb	120.0	104 %	90-110		
			CCB	ppb		0.21	1		
Silver	200.8	(SP 1901761-001)	MS	ug/L	5.000	67.9 %	75-125	435	
			MSD	ug/L	5.000	65.1 %	75-125	435	
			MSRPD	ug/L	5.000	0.14	≤1		
	200.8	02/09/19:201904AC	CCV	ppb	120.0	99.9 %	90-110		
			CCB	ppb		-0.004	1		
			CCV	ppb	120.0	99.8 %	90-110		
			CCB	ppb		0.005	1		
Thallium	200.8	(SP 1901761-001)	MS	ug/L	5.000	115 %	75-125		
			MSD	ug/L	5.000	106 %	75-125		
			MSRPD	ug/L	5.000	7.8%	≤20		
	200.8	02/09/19:201904AC	CCV	ppb	120.0	101 %	90-110		
			CCB	ppb		0.003	0.2		
			CCV	ppb	120.0	102 %	90-110		
			CCB	ppb		0.018	0.2		
Vanadium	200.8	(SP 1901761-001)	MS	ug/L	5.000	115 %	75-125		
			MSD	ug/L	5.000	105 %	75-125		
			MSRPD	ug/L	5.000	0.47	≤2		
	200.8	02/09/19:201904AC	CCV	ppb	120.0	104 %	90-110		
			CCB	ppb		-0.02	2		
			CCV	ppb	120.0	104 %	90-110		
			CCB	ppb		0.004	2		
Mercury	245.1	02/19/19:201874AC	Blank	ug/L		ND	<0.02		
			LCS	ug/L	0.2000	103 %	85-115		
			MS	ug/L	0.2000	90.5 %	75-125		
			MSD	ug/L	0.2000	92.7 %	75-125		
	245.1	02/19/19:202463AC	(STK1931700-001)	MSRPD	ug/L	0.2000	2.3%	≤20	
				CCV	ppt	200.0	104 %	90-110	
				CCB	ppt		-10.3	20	
				CCV	ppt	200.0	104 %	90-110	
			CCB	ppt		-10.3	20		

March 21, 2019
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 1901767
 Customer : 2-21676

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Color	2120B	(CC 1980433-001)	Dup	units		0.0	5	
	2120B	02/07/19:202477amm	CCB CCV	units units	10.00	0.00 100 %	5.0 90-110	
Turbidity	2130B	(VI 1940498-001)	Dup	NTU		0.0%	20	
	2130B	02/08/19:201895jba	CCV	NTU	10.00	107 %	90-110	
			CCB	NTU		0.090	0.1	
			CCV	NTU	10.00	107 %	90-110	
			CCB	NTU		0.096	0.1	
Odor	2150B	(SP 1901761-001)	Dup	TON		0.0%	20	
Alkalinity (as CaCO3)	2320B	(STK1931836-002)	Dup	mg/L		0.02%	10	
	2320B	02/12/19:202040AMM	CCV	mg/L	234.9	96.0 %	90-110	
CCV			mg/L	234.9	102 %	90-110		
Bicarbonate	2320B	(STK1931836-002)	Dup	mg/L		0.0%	10	
Carbonate	2320B	(STK1931836-002)	Dup	mg/L		0.0	10	
Hydroxide	2320B	(STK1931836-002)	Dup	mg/L		0.0	10	
Conductivity	2510B	02/12/19:202004JMG	ICB	umhos/cm		0.06	1	
			CCV	umhos/cm	999.0	104 %	95-105	
			CCV	umhos/cm	999.0	104 %	95-105	
E. C.	2510B	02/12/19:201534jmg (SP 1901648-011)	Blank	umhos/cm		ND	<1	
			Dup	umhos/cm		0.0%	5	
Total Dissolved Solids (TFR)	2540CE	02/11/19:201510CTL (CC 1980366-001) (CC 1980366-004)	Blank	mg/L		7.1	20	
			LCS	mg/L	994.8	98.9 %	90-110	
			Dup	mg/L		0.8%	5	
			Dup	mg/L		1.6%	5	
Chloride	300.0	02/07/19:201420MCA (STK1931156-004) (SP 1901664-002)	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	97.2 %	90-110	
			MS	mg/L	500.0	101 %	85-121	
			MSD	mg/L	500.0	102 %	85-121	
			MSRPD	mg/L	100.0	0.9%	≤19	
			MS	mg/L	500.0	107 %	85-121	
	300.0	02/07/19:201797MCA	MSD	mg/L	500.0	102 %	85-121	
			MSRPD	mg/L	100.0	4.9%	≤19	
			CCB	ppm		0.11	1	
			CCV	ppm	25.00	99.0 %	90-110	
			CCB	ppm		0.08	1	
			CCV	ppm	25.00	100 %	90-110	
Fluoride	300.0	02/07/19:201420MCA (STK1931156-004) (SP 1901664-002)	Blank	mg/L		ND	<0.1	
			LCS	mg/L	2.500	102 %	90-110	
			MS	mg/L	50.00	99.9 %	87-120	
			MSD	mg/L	50.00	102 %	87-120	
			MSRPD	mg/L	100.0	1.7%	≤16	
			MS	mg/L	50.00	107 %	87-120	
	300.0	02/07/19:201797MCA	MSD	mg/L	50.00	102 %	87-120	
			MSRPD	mg/L	100.0	4.7%	≤16	
			CCB	ppm		0.000	0.1	
			CCV	ppm	2.500	104 %	90-110	
			CCB	ppm		0.000	0.1	
			CCV	ppm	2.500	105 %	90-110	
Nitrate	300.0	02/07/19:201420MCA (STK1931156-004)	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	99.8 %	90-110	
			MS	mg/L	400.0	99.8 %	85-119	
			MSD	mg/L	400.0	101 %	85-119	
			MSRPD	mg/L	100.0	1.2%	≤19	
			MS	mg/L	400.0	106 %	85-119	

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Wet Chem									
Nitrate	300.0	(SP 1901664-002)	MSD	mg/L	400.0	101 %	85-119		
			MSRPD	mg/L	100.0	5.0%	≤19		
	300.0	02/07/19:201797MCA	CCB	ppm		0.000	0.5		
			CCV	ppm	20.00	101 %	90-110		
			CCB	ppm		0.000	0.5		
			CCV	ppm	20.00	102 %	90-110		
Nitrate + Nitrite as N	300.0	02/07/19:201420MCA	Blank	mg/L		ND	<0.1		
Nitrate Nitrogen	300.0	02/07/19:201420MCA	Blank	mg/L		ND	<0.1		
Nitrite	300.0	02/07/19:201420MCA	Blank	mg/L		ND	<0.5		
			LCS	mg/L	15.00	99.5 %	90-110		
			MS	mg/L	300.0	101 %	74-126		
			(STK1931156-004)	MSD	mg/L	300.0	102 %	74-126	
			MSRPD	mg/L	100.0	1.3%	≤20		
			MS	mg/L	300.0	107 %	74-126		
	(SP 1901664-002)	MSD	mg/L	300.0	102 %	74-126			
		MSRPD	mg/L	100.0	5.1%	≤20			
	300.0	02/07/19:201797MCA	CCB	ppm		0.000	0.5		
			CCV	ppm	15.00	101 %	90-110		
CCB			ppm		0.000	0.5			
CCV			ppm	15.00	102 %	90-110			
Nitrite Nitrogen	300.0	02/07/19:201420MCA	Blank	mg/L		ND	<0.2		
Sulfate	300.0	02/07/19:201420MCA	Blank	mg/L		ND	<0.5		
			LCS	mg/L	50.00	98.1 %	90-110		
			MS	mg/L	1000	101 %	82-124		
			(STK1931156-004)	MSD	mg/L	1000	103 %	82-124	
			MSRPD	mg/L	100.0	1.6%	≤23		
			MS	mg/L	1000	108 %	82-124		
	(SP 1901664-002)	MSD	mg/L	1000	103 %	82-124			
		MSRPD	mg/L	100.0	4.7%	≤23			
	300.0	02/07/19:201797MCA	CCB	ppm		0.018	0.5		
			CCV	ppm	50.00	99.1 %	90-110		
CCB			ppm		0.000	0.5			
CCV			ppm	50.00	100 %	90-110			
MBAS	5540C	02/08/19:202160AMM	CCB	mg/L		0.000	0.1		
			CCV	mg/L	0.1000	100 %	99-101		
MBAS Screen	5540C	(STK1931953-001)	MS	mg/L	0.1000	100 %	90-110		
			MSD	mg/L	0.1000	100 %	90-110		
			MSRPD	mg/L	0.1000	0.0	≤0.1		

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.
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.
ND	: Non-detect - Result was below the DQO listed for the analyte.
<¼	: High Sample Background - Spike concentration was less than one fourth of the sample concentration.

March 21, 2019
Meadowlark Ranches Mutual Water Co.

Lab ID : SP 1901767
Customer : 2-21676

Quality Control - Inorganic

Definition	
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.
Explanation	
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

1921:02/18/2019				TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information										L215						
Client: Meadowlark Ranches Mutual Water Co. Address: Attn: Mike Hadley P.O. Box 606 Santa Ynez, CA 93460-0606 Phone: (805)688-3132 Fax: Contact Person: Mike Hadley Project Name: Water Quality - Well #4 Purchase Order Number: Quote Number:				Method of Sampling: Composite(C) Grab(G) Type of Sample **SEE REVERSE SIDE** Potable(P) Non-Potable(NP) Ag Water(AgW) Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)																
Sampler(s) <div style="font-size: 2em; font-family: cursive;">Victor R.</div> Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ___/___/___ Time: ___/___																				
Lab Number: SP <u>1901707</u> 2-21676																				
Samp Num	Location Description	Date Sampled	Time Sampled																	
0	Travel Blank	2/7/19		G	LBW															
1	Well #4 (Indian Way) Active	2/7/19	1050	G	DW															
Remarks: 10				Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:					
				<div style="font-size: 2em; font-family: cursive;">[Signature]</div>	2/7/19	1515	<div style="font-size: 2em; font-family: cursive;">[Signature]</div>			<div style="font-size: 2em; font-family: cursive;">[Signature]</div>			<div style="font-size: 2em; font-family: cursive;">[Signature]</div>			<div style="font-size: 2em; font-family: cursive;">[Signature]</div>				

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 / 10 / _____ / _____ / _____ / _____ / _____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? Yes No N/A
6. Verify sample date, time, sampler Yes No N/A
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) Yes No
8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? Yes No N/A

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by:

Reviewed and
Approved By

Inez Covarrubias



Digitally signed by Inez Covarrubias
Title: Sample Receiving
Date: 02/07/2019-16:11:52

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 1901767