



## 2105382

### **GC/MS Volatiles:**

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C. The samples were also analyzed for Gasoline Range Organics (GRO).

All acceptance criteria were met.

### **DRO:**

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

### **Dissolved Gasses:**

The samples were prepared and analyzed according to method RSK-175 procedures and the current revision of SOP 449.

All acceptance criteria were met.

### **BART:**

The Biological Activity Reaction Test was completed with the Iron-Related Bacteria, Sulfate-Reducing Bacteria, and Slime-Forming Bacteria kit manufactured by Hach Company. The analysis was performed following the manufacturer provided instructions. If the target analyte is not detected (absent), then the sample will be reported with "ND" in the result field and a "U" flag. If the target analyte is detected (present), then the sample will be reported with a "1" for a result without a flag.

All acceptance criteria were met.

### **Metals:**

The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by ICPMS followed method 200.8 and the current revision of SOP 827.

The sample was to be analyzed for dissolved metals. The sample was filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than two prior to analysis.



All acceptance criteria were met.

**Inorganics:**

The sample was analyzed following EMSL and Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
pH	SM4500-H <sup>+</sup> B	1126
Specific conductance	SM2510B	1128
Total phosphorus	SM4500-P	1119
TDS	SM2540C	1101
Bromide	300.0 Revision 2.1	1113
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Nitrate as N	300.0 Revision 2.1	1113
Nitrite as N	300.0 Revision 2.1	1113
Total Nitrates	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

The sample was prepared and analyzed within the established hold time for each analysis with the exception of TDS. (See NCR #15254)

All remaining acceptance criteria were met.

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SAMPLE SUMMARY REPORT

**Client:** Western Water and Land, Inc.  
**Project:** Yater, Watson Ranch B, Watson Ranch  
**Sample ID:** Foster 92020  
**Legal Location:**  
**Collection Date:** 5/18/2021 13:40

**Date:** 09-Jun-21  
**Work Order:** 2105382  
**Lab ID:** 2105382-1  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Alkalinity as Calcium Carbonate</b>						
			<b>SM2320B</b>		Prep Date: <b>5/28/2021</b>	PrepBy: <b>BMK</b>
<b>BICARBONATE AS CaCO3</b>	370		<b>20</b>	<b>MG/L</b>	1	5/28/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	5/28/2021
<b>TOTAL ALKALINITY AS CaCO3</b>	370		<b>20</b>	<b>MG/L</b>	1	5/28/2021
<b>Biological Activity Reaction Test</b>						
			<b>BART</b>		Prep Date: <b>5/24/2021</b>	PrepBy: <b>ZRH</b>
<b>IRON RELATED BACTERIA</b>	140000		<b>1</b>	<b>cfu/ml</b>	1	6/2/2021
<b>SLIME FORMING BACTERIA</b>	100		<b>1</b>	<b>cfu/ml</b>	1	6/2/2021
<b>SULFATE REDUCING BACTERIA</b>	115000		<b>1</b>	<b>cfu/ml</b>	1	6/2/2021
<b>Diesel Range Organics</b>						
			<b>SW8015M</b>		Prep Date: <b>5/24/2021</b>	PrepBy: <b>JRS</b>
Diesel Range Organics	ND		1	MG/L	1	6/9/2021 02:08
Surr: O-TERPHENYL	84		69-120	%REC	1	6/9/2021 02:08
<b>Dissolved Gasses</b>						
			<b>RSK175</b>		Prep Date: <b>5/28/2021</b>	PrepBy: <b>JRS</b>
METHANE	ND		1	UG/L	1	5/28/2021 16:59
ETHANE	ND		2	UG/L	1	5/28/2021 16:59
PROPANE	ND		1	UG/L	1	5/28/2021 16:59
<b>GC/MS Volatiles</b>						
			<b>SW8260_25</b>		Prep Date: <b>5/25/2021</b>	PrepBy: <b>AEW</b>
BENZENE	ND		1	UG/L	1	5/25/2021 19:36
TOLUENE	ND		1	UG/L	1	5/25/2021 19:36
ETHYLBENZENE	ND		1	UG/L	1	5/25/2021 19:36
<b>M+P-XYLENE</b>	<b>0.8</b>	J	<b>1</b>	<b>UG/L</b>	1	5/25/2021 19:36
O-XYLENE	ND		1	UG/L	1	5/25/2021 19:36
<b>TOTAL XYLENES</b>	<b>0.8</b>	J	<b>1</b>	<b>UG/L</b>	1	5/25/2021 19:36
Surr: 4-BROMOFLUOROBENZENE	98		80-120	%REC	1	5/25/2021 19:36
Surr: DIBROMOFLUOROMETHANE	99		80-120	%REC	1	5/25/2021 19:36
Surr: TOLUENE-D8	102		80-120	%REC	1	5/25/2021 19:36
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	5/25/2021 19:36
<b>Ion Chromatography</b>						
			<b>EPA300.0</b>		Prep Date: <b>5/19/2021</b>	PrepBy: <b>LMC</b>
BROMIDE	ND		0.2	MG/L	1	5/19/2021 15:24
<b>CHLORIDE</b>	<b>17</b>		<b>0.2</b>	<b>MG/L</b>	1	5/19/2021 15:24
<b>FLUORIDE</b>	<b>0.43</b>		<b>0.1</b>	<b>MG/L</b>	1	5/19/2021 15:24
<b>NITRATE/NITRITE AS N</b>	<b>0.98</b>		<b>0.15</b>	<b>MG/L</b>	1	5/19/2021 15:24
<b>NITRATE AS N</b>	<b>0.98</b>		<b>0.2</b>	<b>MG/L</b>	1	5/19/2021 15:24
NITRITE AS N	ND		0.15	MG/L	1	5/19/2021 15:24
<b>SULFATE</b>	<b>250</b>		<b>10</b>	<b>MG/L</b>	10	5/19/2021 15:37
<b>Dissolved Metals by 200.8</b>						
			<b>EPA200.8</b>		Prep Date: <b>5/26/2021</b>	PrepBy: <b>JML</b>
<b>BARIUM</b>	<b>0.04</b>		<b>0.001</b>	<b>MG/L</b>	10	5/26/2021 18:41
<b>BORON</b>	<b>0.13</b>		<b>0.05</b>	<b>MG/L</b>	10	5/26/2021 18:41
<b>CALCIUM</b>	<b>61</b>		<b>1</b>	<b>MG/L</b>	10	5/26/2021 18:41
IRON	ND		0.15	MG/L	10	5/26/2021 18:41
<b>MAGNESIUM</b>	<b>58</b>		<b>0.1</b>	<b>MG/L</b>	10	5/26/2021 18:41
MANGANESE	ND		0.004	MG/L	10	5/26/2021 18:41
<b>POTASSIUM</b>	<b>3.7</b>		<b>1</b>	<b>MG/L</b>	10	5/26/2021 18:41
<b>SELENIUM</b>	<b>0.0039</b>		<b>0.0015</b>	<b>MG/L</b>	10	5/26/2021 18:41
<b>SODIUM</b>	<b>120</b>		<b>1</b>	<b>MG/L</b>	10	5/26/2021 18:41

**Client:** Western Water and Land, Inc.  
**Project:** Yater, Watson Ranch B, Watson Ranch  
**Sample ID:** Foster 92020  
**Legal Location:**  
**Collection Date:** 5/18/2021 13:40

**Date:** 09-Jun-21  
**Work Order:** 2105382  
**Lab ID:** 2105382-1  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
STRONTIUM	0.88		0.001	MG/L	10	5/26/2021 18:41
pH		SM4500-H			Prep Date: 5/31/2021	PrepBy: BMK
PH	8.15		0.1	pH	1	5/31/2021
Specific Conductance in Water		SM2510B			Prep Date: 5/21/2021	PrepBy: BMK
SPECIFIC CONDUCTIVITY	1212		1	umhos/cm	1	5/21/2021
Total Dissolved Solids		SM2540C			Prep Date: 5/26/2021	PrepBy: BMK
TOTAL DISSOLVED SOLIDS	740		20	MG/L	1	5/26/2021
Total Phosphorus as P		SM4500-P			Prep Date: 5/20/2021	PrepBy: LMC
TOTAL PHOSPHORUS	ND		0.05	MG/L	1	5/20/2021

**Client:** Western Water and Land, Inc.  
**Project:** Yater, Watson Ranch B, Watson Ranch  
**Sample ID:** Foster 92020  
**Legal Location:**  
**Collection Date:** 5/18/2021 13:40

**Date:** 09-Jun-21  
**Work Order:** 2105382  
**Lab ID:** 2105382-1  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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**Explanation of Qualifiers**

**Radiochemistry:**

- "Report Limit" is the MDC
- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- \* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

**Inorganics:**

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M - Duplicate injection precision was not met.
- N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- \* - Duplicate analysis (relative percent difference) not within control limits.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

**Organics:**

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- \* - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
  - gasoline
  - JP-8
  - diesel
  - mineral spirits
  - motor oil
  - Stoddard solvent
  - bunker C

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Date: 6/9/2021 4:37:56

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

**QC BATCH REPORT**

Batch ID: **HC210524-83-1** Instrument ID **FUELS-1** Method: **SW8015M**

**LCS** Sample ID: **HC210524-83** Units: **MG/L** Analysis Date: **5/28/2021 21:04**

Client ID: Run ID: **HC210528-81A** Prep Date: **5/24/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	6.7	1.07	8.33		80	53-120				20	
Surr: O-TERPHENYL	1.62		1.67		97	69-120					

**LCSD** Sample ID: **HC210524-83** Units: **MG/L** Analysis Date: **5/28/2021 21:25**

Client ID: Run ID: **HC210528-81A** Prep Date: **5/24/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	7.25	1.07	8.33		87	53-120		6.7	8	20	
Surr: O-TERPHENYL	1.73		1.67		104	69-120			7		

**MB** Sample ID: **HC210524-83** Units: **MG/L** Analysis Date: **5/28/2021 20:42**

Client ID: Run ID: **HC210528-81A** Prep Date: **5/24/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	ND	1.1									
Surr: O-TERPHENYL	1.58				95	69-120					

The following samples were analyzed in this batch:

2105382-1

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: **HC210528-91-1** Instrument ID **MEE-1** Method: **RSK175**

LCS		Sample ID: <b>HC210528-91</b>			Units: <b>UG/L</b>		Analysis Date: <b>5/28/2021 15:32</b>				
Client ID:		Run ID: <b>HC210528-91A</b>			Prep Date: <b>5/28/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	152	1	142		107	76-125				25	
ETHANE	291	2	267		109	70-120				25	
PROPANE	429	1	391		110	72-120				25	

LCSD		Sample ID: <b>HC210528-91</b>			Units: <b>UG/L</b>		Analysis Date: <b>5/28/2021 17:15</b>				
Client ID:		Run ID: <b>HC210528-91A</b>			Prep Date: <b>5/28/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	152	1	142		107	76-125		152	1	25	
ETHANE	297	2	267		111	70-120		291	2	25	
PROPANE	441	1	391		113	72-120		429	3	25	

MB		Sample ID: <b>HC210528-91</b>			Units: <b>UG/L</b>		Analysis Date: <b>5/28/2021 15:45</b>					
Client ID:		Run ID: <b>HC210528-91A</b>			Prep Date: <b>5/28/2021</b>		DF: <b>1</b>					
Analyte	Result	ReportLimit										Qual
METHANE	ND	1										
ETHANE	ND	2										
PROPANE	ND	1										

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: IP210526-4-4 Instrument ID ICPMS2 Method: EPA200.8

LCS		Sample ID: IM210526-4			Units: MG/L			Analysis Date: 5/26/2021 17:38			
Client ID:		Run ID: IM210526-10A4			Prep Date: 5/26/2021			DF: 10			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	0.0961	0.001	0.1		96	85-115				20	
BORON	1.03	0.05	1		103	85-115				20	
CALCIUM	10.4	1	10		104	85-115				20	
IRON	5.03	0.15	5		101	85-115				20	
MAGNESIUM	9.33	0.1	10		93	85-115				20	
MANGANESE	0.0916	0.004	0.1		92	85-115				20	
POTASSIUM	4.64	1	5		93	85-115				20	
SELENIUM	0.0962	0.0015	0.1		96	85-115				20	
SODIUM	10.3	1	10		103	85-115				20	
STRONTIUM	0.0942	0.001	0.1		94	85-115				20	

LCSD		Sample ID: IM210526-4			Units: MG/L			Analysis Date: 5/26/2021 17:44			
Client ID:		Run ID: IM210526-10A4			Prep Date: 5/26/2021			DF: 10			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	0.102	0.001	0.1		102	85-115		0.0961	5	20	
BORON	1.04	0.05	1		104	85-115		1.03	1	20	
CALCIUM	9.76	1	10		98	85-115		10.4	6	20	
IRON	5.04	0.15	5		101	85-115		5.03	0	20	
MAGNESIUM	9.74	0.1	10		97	85-115		9.33	4	20	
MANGANESE	0.0936	0.004	0.1		94	85-115		0.0916	2	20	
POTASSIUM	4.92	1	5		98	85-115		4.64	6	20	
SELENIUM	0.0988	0.0015	0.1		99	85-115		0.0962	3	20	
SODIUM	10.3	1	10		103	85-115		10.3	0	20	
STRONTIUM	0.0934	0.001	0.1		93	85-115		0.0942	1	20	

**Client:** Western Water and Land, Inc.  
**Work Order:** 2105382  
**Project:** Yater, Watson Ranch B, Watson Ranch

## QC BATCH REPORT

Batch ID: **IP210526-4-4** Instrument ID **ICPMS2** Method: **EPA200.8**

**MB** Sample ID: **FP210521-4** Units: **MG/L** Analysis Date: **5/26/2021 17:32**  
Client ID: Run ID: **IM210526-10A4** Prep Date: **5/26/2021** DF: **10**

Analyte	Result	ReportLimit	Qual
BARIUM	ND	0.001	
BORON	ND	0.05	
CALCIUM	ND	1	
IRON	ND	0.15	
MAGNESIUM	ND	0.1	
MANGANESE	ND	0.004	
POTASSIUM	ND	1	
SELENIUM	ND	0.0015	
SODIUM	ND	1	
STRONTIUM	ND	0.001	

The following samples were analyzed in this batch:

2105382-1

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: VL210525-3-2 Instrument ID: HPV1 Method: SW8260\_25

LCS		Sample ID: VL210525-3			Units: %REC		Analysis Date: 5/25/2021 14:40				
Client ID:		Run ID: VL210525-3A			Prep Date: 5/25/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.8		25		99	80-120					
Surr: DIBROMOFLUOROMETHANE	25.1		25		100	80-120					
Surr: TOLUENE-D8	25.3		25		101	80-120					
BENZENE	9.62	1	10		96	80-120				20	
TOLUENE	9.59	1	10		96	80-120				20	
ETHYLBENZENE	9.48	1	10		95	80-120				20	
M+P-XYLENE	19.3	1	20		96	80-120				20	
O-XYLENE	9.39	1	10		94	80-120				20	

LCSD		Sample ID: VL210525-3			Units: %REC		Analysis Date: 5/25/2021 15:53				
Client ID:		Run ID: VL210525-3A			Prep Date: 5/25/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25		25		100	80-120			1		
Surr: DIBROMOFLUOROMETHANE	24.9		25		99	80-120			1		
Surr: TOLUENE-D8	25.2		25		101	80-120			1		
BENZENE	9.12	1	10		91	80-120		9.62	5	20	
TOLUENE	9.24	1	10		92	80-120		9.59	4	20	
ETHYLBENZENE	9.25	1	10		93	80-120		9.48	2	20	
M+P-XYLENE	18.8	1	20		94	80-120		19.3	2	20	
O-XYLENE	9.29	1	10		93	80-120		9.39	1	20	

MB		Sample ID: VL210525-3			Units: %REC		Analysis Date: 5/25/2021 15:30				
Client ID:		Run ID: VL210525-3A			Prep Date: 5/25/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.1				100	80-120					
Surr: DIBROMOFLUOROMETHANE	25.1				100	80-120					
Surr: TOLUENE-D8	25.8				103	80-120					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: VL210525-3-3 Instrument ID HPV1 Method: SW8260\_25

LCS		Sample ID: VL210525-3			Units: UG/L		Analysis Date: 5/25/2021 14:40				
Client ID:		Run ID: VL210525-3A			Prep Date: 5/25/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1780	100	2000		89	75-121				20	

LCSD		Sample ID: VL210525-3			Units: UG/L		Analysis Date: 5/25/2021 15:53				
Client ID:		Run ID: VL210525-3A			Prep Date: 5/25/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1670	100	2000		83	75-121		1780	5	20	

MB		Sample ID: VL210525-3			Units: UG/L		Analysis Date: 5/25/2021 15:30				
Client ID:		Run ID: VL210525-3A			Prep Date: 5/25/2021		DF: 1				
Analyte	Result	ReportLimit	Qual								
GASOLINE RANGE ORGANICS	ND	100									

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: **AK210528-1-1** Instrument ID **NONE** Method: **SM2320B**

**DUP** Sample ID: **2105382-1** Units: **MG/L** Analysis Date: **5/28/2021**  
 Client ID: **Foster 92020** Run ID: **AK210528-1A1** Prep Date: **5/28/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BICARBONATE AS CaCO3	370	20						370	1	15	
CARBONATE AS CaCO3	ND	20						20		15	
TOTAL ALKALINITY AS CaCO3	370	20						370	1	15	

**LCS** Sample ID: **AK210528-1** Units: **MG/L** Analysis Date: **5/28/2021**  
 Client ID: Run ID: **AK210528-1A1** Prep Date: **5/28/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	103	5	100		102	85-115				15	

**MB** Sample ID: **AK210528-1** Units: **MG/L** Analysis Date: **5/28/2021**  
 Client ID: Run ID: **AK210528-1A1** Prep Date: **5/28/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BICARBONATE AS CaCO3	ND	5									
CARBONATE AS CaCO3	ND	5									
TOTAL ALKALINITY AS CaCO3	ND	5									

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: IC210519-1-2 Instrument ID IC3 Method: EPA300.0

LCS		Sample ID: IC210519-1			Units: MG/L		Analysis Date: 5/19/2021 08:30				
Client ID:		Run ID: IC210519-1A2			Prep Date: 5/19/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BROMIDE	10	0.2	10		100	90-110				15	
CHLORIDE	10.2	0.2	10		102	90-110				15	
FLUORIDE	5.03	0.1	5		101	90-110				15	
NITRATE AS N	10.2	0.2	10		102	90-110				15	
NITRITE AS N	4.9	0.15	4.98		98	90-110				15	
SULFATE	49.7	1	50		99	90-110				15	

LCSD		Sample ID: IC210519-1			Units: MG/L		Analysis Date: 5/19/2021 11:09				
Client ID:		Run ID: IC210519-1A2			Prep Date: 5/19/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BROMIDE	9.27	0.2	10		93	90-110		10	8	15	
CHLORIDE	10.1	0.2	10		101	90-110		10.2	1	15	
FLUORIDE	5.1	0.1	5		102	90-110		5.03	1	15	
NITRATE AS N	10.2	0.2	10		102	90-110		10.2	0	15	
NITRITE AS N	4.89	0.15	4.98		98	90-110		4.9	0	15	
SULFATE	49.7	1	50		99	90-110		49.7	0	15	

MB		Sample ID: IC210519-1			Units: MG/L		Analysis Date: 5/19/2021 08:44					
Client ID:		Run ID: IC210519-1A2			Prep Date: 5/19/2021		DF: 1					
Analyte	Result	ReportLimit										Qual
BROMIDE	ND	0.2										
CHLORIDE	ND	0.2										
FLUORIDE	ND	0.1										
NITRATE AS N	ND	0.2										
NITRITE AS N	ND	0.15										
SULFATE	ND	1										

The following samples were analyzed in this batch:

**Client:** Western Water and Land, Inc.  
**Work Order:** 2105382  
**Project:** Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: **pH210531-1-1**      Instrument ID **pH-2**      Method: **SM4500-H**

CCV		Sample ID: <b>CCV1</b>			Units: <b>pH</b>		Analysis Date: <b>5/31/2021</b>				
Client ID:		Run ID: <b>pH210531-1A1</b>			Prep Date: <b>5/31/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	7.01	0.1	7			6.9-7.1					

DUP		Sample ID: <b>2105382-1</b>			Units: <b>pH</b>		Analysis Date: <b>5/31/2021</b>				
Client ID: <b>Foster 92020</b>		Run ID: <b>pH210531-1A1</b>			Prep Date: <b>5/31/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	8.17	0.1						8.15			

ICV		Sample ID: <b>ICV</b>			Units: <b>pH</b>		Analysis Date: <b>5/31/2021</b>				
Client ID:		Run ID: <b>pH210531-1A1</b>			Prep Date: <b>5/31/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	7.02	0.1	7			6.9-7.1					

The following samples were analyzed in this batch:

2105382-1

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: **SC210521-1-1** Instrument ID **pH-2** Method: **SM2510B**

CCV		Sample ID: <b>CCV1</b>			Units: <b>umhos/cm</b>			Analysis Date: <b>5/21/2021</b>			
Client ID:		Run ID: <b>SC210521-1A1</b>			Prep Date: <b>5/21/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	1410	1	1410		100	90-110					

CCV		Sample ID: <b>CCV2</b>			Units: <b>umhos/cm</b>			Analysis Date: <b>5/21/2021</b>			
Client ID:		Run ID: <b>SC210521-1A1</b>			Prep Date: <b>5/21/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	1410	1	1410		100	90-110					

DUP		Sample ID: <b>2105382-1</b>			Units: <b>umhos/cm</b>			Analysis Date: <b>5/21/2021</b>			
Client ID: <b>Foster 92020</b>		Run ID: <b>SC210521-1A1</b>			Prep Date: <b>5/21/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	1209	1						1212	0	15	

ICV		Sample ID: <b>ICV</b>			Units: <b>umhos/cm</b>			Analysis Date: <b>5/21/2021</b>			
Client ID:		Run ID: <b>SC210521-1A1</b>			Prep Date: <b>5/21/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	763	1	718		106	90-110					

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: **TD210526-1-1** Instrument ID **Balance** Method: **SM2540C**

LCS		Sample ID: <b>TD210526-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>5/26/2021</b>				
Client ID:		Run ID: <b>TD210526-1A1</b>			Prep Date: <b>5/26/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	375	20	400		94	85-115				14	

LCSD		Sample ID: <b>TD210526-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>5/26/2021</b>				
Client ID:		Run ID: <b>TD210526-1A1</b>			Prep Date: <b>5/26/2021</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	381	20	400		95	85-115		375	2	14	

MB		Sample ID: <b>TD210526-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>5/26/2021</b>					
Client ID:		Run ID: <b>TD210526-1A1</b>			Prep Date: <b>5/26/2021</b>		DF: <b>1</b>					
Analyte	Result	ReportLimit										Qual
TOTAL DISSOLVED SOLIDS	ND	20										

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.  
 Work Order: 2105382  
 Project: Yater, Watson Ranch B, Watson Ranch

# QC BATCH REPORT

Batch ID: TP210520-1-1 Instrument ID Spec Method: SM4500-P

LCS		Sample ID: TP210520-1			Units: MG/L		Analysis Date: 5/20/2021				
Client ID:		Run ID: TP210520-1A1			Prep Date: 5/20/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	0.492	0.05	0.5		98	80-120				20	

LCSD		Sample ID: TP210520-1			Units: MG/L		Analysis Date: 5/20/2021				
Client ID:		Run ID: TP210520-1A1			Prep Date: 5/20/2021		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	0.503	0.05	0.5		101	80-120		0.492	2	20	

MB		Sample ID: TP210520-1			Units: MG/L		Analysis Date: 5/20/2021					
Client ID:		Run ID: TP210520-1A1			Prep Date: 5/20/2021		DF: 1					
Analyte	Result	ReportLimit										Qual
TOTAL PHOSPHORUS	ND	0.05										

The following samples were analyzed in this batch: