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28 February 2023

Bruce Smith
Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction, CO 81506
RE: Rule 411

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 14:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jeremy D. Allen".

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-23-16

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022
Project Manager: Bruce Smith

Reported:
02/28/23 15:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
BC 10	2302081-01	Water	02/07/23 13:30	02/08/23 14:00	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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The CAB result included in the data section was calculated with the Silicon result included. The CAB result attached to the report was calculated manually excluding the Silicon result.

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Project: Rule 411
Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022
Project Manager: Bruce Smith

Reported:
02/28/23 15:49

BC 10

2302081-01 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO3*	150	10.0	2.27	mg/L	1	02/10/23 16:00	2320 B		JDA
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	1	02/10/23 16:00	2320 B	U	JDA
Alkalinity, Carbonate as CaCO3*	<2.27	10.0	2.27	mg/L	1	02/10/23 16:00	2320 B	U	JDA
Alkalinity, Bicarbonate as CaCO3*	150	10.0	2.27	mg/L	1	02/10/23 16:00	2320 B		JDA
Bromide	<0.0274	0.100	0.0274	mg/L	1	02/13/23 19:39	EPA300.0	U	AES
Cation/Anion Balance	20.6	-100	-100	%	1	02/28/23 11:22	Calculation		JDA
Chloride*	1.53	1.00	0.0555	mg/L	1	02/13/23 19:39	EPA300.0		AES
Conductivity*	354	1.00		umho/cm@25 C	1	02/09/23 13:00	2510 B		JDA
Fluoride*	0.102	0.100	0.00971	mg/L	1	02/13/23 19:39	EPA300.0		AES
Chromium VI, Dissolved	0.00979	0.0100	0.00512	mg/L	1	02/10/23 15:00	3500-Cr B	H1, J	AES
Nitrate as N*	0.223	0.020	0.007	mg/L	1	02/08/23 18:05	EPA300.0		AES
Nitrate+Nitrite as N by IC	0.223	0.0400	0.0110	mg/L	1	02/08/23 18:05	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	02/08/23 18:05	EPA300.0	U	AES
pH*	8.04			pH Units	1	02/09/23 13:00	EPA150.1		JDA
pH Temperature, degrees C	17.6			pH Units	1	02/09/23 13:00	EPA150.1		JDA
Phosphorus, Total	0.0440	0.0500	0.0245	mg P/L	1	02/17/23 12:52	EPA365.1	J	AES
Sulfate*	28.4	1.00	0.124	mg/L	1	02/13/23 19:39	EPA300.0		AES
Total Dissolved Solids*	215	10.0		mg/L	1	02/13/23 11:00	EPA160.1		AES

Dissolved Metals by ICP

Boron	<0.122	0.300	0.122	mg/L	1	02/14/23 20:51	EPA200.7	U	AES
Calcium*	48.5	0.100	0.024	mg/L	1	02/14/23 20:51	EPA200.7		AES
Iron*	<0.036	0.050	0.036	mg/L	1	02/14/23 20:51	EPA200.7	U	AES
Magnesium*	10.4	0.100	0.031	mg/L	1	02/14/23 20:51	EPA200.7		AES
Potassium*	1.03	1.00	0.065	mg/L	1	02/14/23 20:51	EPA200.7		AES
Silicon	10.8	0.500	0.032	mg/L	1	02/14/23 20:51	EPA200.7		AES
Sodium*	15.7	1.00	0.106	mg/L	1	02/14/23 20:51	EPA200.7		AES
Strontium*	0.314	0.100	0.004	mg/L	1	02/14/23 20:51	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	0.0024	0.0005	0.0002	mg/L	1	02/13/23 13:16	EPA200.8		AES
Barium*	0.0523	0.0005	0.0003	mg/L	1	02/13/23 13:16	EPA200.8		AES
Cadmium*	<0.00003	0.0005	0.00003	mg/L	1	02/13/23 13:16	EPA200.8	U	AES
Chromium*	<0.0004	0.0010	0.0004	mg/L	1	02/13/23 13:16	EPA200.8	U	AES
Chromium III, Dissolved	<10.0	10.0	5.12	ug/L	1	02/13/23 13:16	Calculation		AES
Copper*	0.0006	0.0005	0.00008	mg/L	1	02/13/23 13:16	EPA200.8		AES

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BC 10

2302081-01 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Lead*	<0.0009	0.0005	0.00009	mg/L	1	02/13/23 13:16	EPA200.8	U	AES
Manganese*	0.0010	0.0005	0.00009	mg/L	1	02/13/23 13:16	EPA200.8		AES
Nickel*	0.0018	0.0005	0.0002	mg/L	1	02/13/23 13:16	EPA200.8		AES
Selenium*	<0.0006	0.0010	0.0006	mg/L	1	02/13/23 13:16	EPA200.8	U	AES
Silver*	<0.00009	0.0002	0.00009	mg/L	1	02/13/23 13:16	EPA200.8	U	AES
Zinc*	<0.0003	0.0020	0.0003	mg/L	1	02/13/23 13:16	EPA200.8	U	AES

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<295	1000	295	ug/L	0.1	02/10/23 20:38	8015B	U	MS
DRO >C10-C28*	1130	1000	670	ug/L	0.1	02/10/23 20:38	8015B		MS
EXT DRO >C28-C36	<670	1000	670	ug/L	0.1	02/10/23 20:38	8015B	U	MS

Surrogate: 1-Chlorooctane 95.7 % 48.8-131 02/10/23 20:38 8015B MS

Surrogate: 1-Chlorooctadecane 102 % 60.1-141 02/10/23 20:38 8015B MS

VOLATILES BY GC/MS

Benzene*	<0.09	0.5	0.09	ug/L	1	02/15/23 17:07	8260B	U	MS
Toluene*	<0.07	0.5	0.07	ug/L	1	02/15/23 17:07	8260B	U	MS
Ethylbenzene*	<0.09	0.5	0.09	ug/L	1	02/15/23 17:07	8260B	U	MS
m+p - Xylene*	<0.5	1	0.5	ug/L	1	02/15/23 17:07	8260B	U	MS
o-Xylene*	<0.07	0.5	0.07	ug/L	1	02/15/23 17:07	8260B	U	MS
Total Xylenes*	<0.5	2	0.5	ug/L	1	02/15/23 17:07	8260B	U	MS
1,3,5-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	02/15/23 17:07	8260B	U	MS
1,2,4-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	02/15/23 17:07	8260B	U	MS
Naphthalene*	<0.04	0.5	0.04	ug/L	1	02/15/23 17:07	8260B	U	MS

Surrogate: Dibromofluoromethane 101 % 82.4-141 02/15/23 17:07 8260B MS

Surrogate: Toluene-d8 99.5 % 87.1-110 02/15/23 17:07 8260B MS

Surrogate: 4-Bromofluorobenzene 96.0 % 76.4-114 02/15/23 17:07 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.1	1	0.1	ug/L	0.97	02/21/23 17:07	8270C	U	MS
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BC 10

2302081-01 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

2-Methylnaphthalene*	<0.07	1	0.07	ug/L	0.97	02/21/23 17:07	8270C	U	MS
1-Methylnaphthalene	<0.07	0.5	0.07	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Acenaphthylene*	<0.07	1	0.07	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Acenaphthene*	0.1	1	0.08	ug/L	0.97	02/21/23 17:07	8270C	J	MS
Fluorene*	<0.03	1	0.03	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Phenanthrene*	<0.08	1	0.08	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Anthracene*	<0.08	1	0.08	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Carbazole*	<0.1	1	0.1	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Fluoranthene*	<0.06	1	0.06	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Pyrene*	<0.08	1	0.08	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Benzo[a]anthracene*	0.2	1	0.06	ug/L	0.97	02/21/23 17:07	8270C	J	MS
Chrysene*	0.2	1	0.06	ug/L	0.97	02/21/23 17:07	8270C	J	MS
Benzo[b]flouranthene*	<0.1	1	0.1	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Benzo[k]flouranthene*	<0.07	1	0.07	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Benzo[a]pyrene*	<0.04	0.2	0.04	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Indeno[1,2,3-cd]pyrene*	<0.04	1	0.04	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Dibenz[a,h]anthracene*	<0.4	1	0.4	ug/L	0.97	02/21/23 17:07	8270C	U	MS
Benzo[g,h,i]perylene*	<0.3	1	0.3	ug/L	0.97	02/21/23 17:07	8270C	U	MS

Surrogate: Nitrobenzene-d5	73.4 %	20.3-96.6	02/21/23 17:07	8270C	MS
Surrogate: 2-Fluorobiphenyl	75.1 %	18.9-97.9	02/21/23 17:07	8270C	MS
Surrogate: Terphenyl-d14	74.9 %	14.7-112	02/21/23 17:07	8270C	MS

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230288 - IC- Ion Chromatograph

Blank (B230288-BLK1)		Prepared & Analyzed: 02/08/23								
Nitrate as N	ND	0.020	mg/L							U
Nitrite as N	ND	0.020	mg/L							U

LCS (B230288-BS1)		Prepared & Analyzed: 02/08/23								
Nitrate as N	1.01	0.020	mg/L	1.00		101	90-110			
Nitrite as N	1.02	0.020	mg/L	1.00		102	90-110			

LCS Dup (B230288-BSD1)		Prepared & Analyzed: 02/08/23								
Nitrate as N	1.01	0.020	mg/L	1.00		101	90-110	0.0695	20	
Nitrite as N	1.02	0.020	mg/L	1.00		102	90-110	0.363	20	

Matrix Spike (B230288-MS1)		Source: 2302081-01		Prepared & Analyzed: 02/08/23						
Nitrate as N	1.21	0.020	mg/L	1.00	0.223	98.9	85-115			
Nitrite as N	0.989	0.020	mg/L	1.00	ND	98.9	85-115			

Matrix Spike Dup (B230288-MSD1)		Source: 2302081-01		Prepared & Analyzed: 02/08/23						
Nitrate as N	1.30	0.020	mg/L	1.00	0.223	108	85-115	7.19	20	
Nitrite as N	1.02	0.020	mg/L	1.00	ND	102	85-115	3.48	20	

Batch B230296 - IC- Ion Chromatograph

Blank (B230296-BLK1)		Prepared: 02/09/23 Analyzed: 02/13/23								
Bromide	ND	0.100	mg/L							U
Chloride	ND	1.00	mg/L							U
Fluoride	ND	0.100	mg/L							U
Sulfate	ND	1.00	mg/L							U

LCS (B230296-BS1)		Prepared: 02/09/23 Analyzed: 02/13/23								
Bromide	2.41	0.100	mg/L	2.50		96.2	90-110			
Chloride	24.8	1.00	mg/L	25.0		99.4	90-110			
Fluoride	2.49	0.100	mg/L	2.50		99.8	90-110			
Sulfate	24.4	1.00	mg/L	25.0		97.7	90-110			

LCS Dup (B230296-BSD1)		Prepared: 02/09/23 Analyzed: 02/13/23								
Bromide	2.39	0.100	mg/L	2.50		95.4	90-110	0.835	20	
Chloride	24.8	1.00	mg/L	25.0		99.0	90-110	0.383	20	
Fluoride	2.48	0.100	mg/L	2.50		99.2	90-110	0.523	20	
Sulfate	24.3	1.00	mg/L	25.0		97.0	90-110	0.670	20	

Matrix Spike (B230296-MS1)		Source: 2302025-01		Prepared: 02/09/23 Analyzed: 02/13/23						
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**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230296 - IC- Ion Chromatograph (Continued)

Matrix Spike (B230296-MS1) (Continued)

Source: 2302025-01 Prepared: 02/09/23 Analyzed: 02/13/23

Bromide	2.32	0.100	mg/L	2.50	ND	92.9	85-115			
Chloride	25.2	1.00	mg/L	25.0	1.16	96.1	85-115			
Fluoride	2.62	0.100	mg/L	2.50	0.161	98.4	85-115			
Sulfate	41.4	1.00	mg/L	25.0	17.2	97.0	85-115			

Matrix Spike (B230296-MS2)

Source: 2302025-02 Prepared: 02/09/23 Analyzed: 02/13/23

Bromide	2.28	0.100	mg/L	2.50	ND	91.1	85-115			
Chloride	48.8	1.00	mg/L	25.0	25.6	93.0	85-115			
Fluoride	2.62	0.100	mg/L	2.50	0.342	91.2	85-115			
Sulfate	206	1.00	mg/L	25.0	185	83.9	85-115			M3

Matrix Spike Dup (B230296-MSD1)

Source: 2302025-01 Prepared: 02/09/23 Analyzed: 02/13/23

Bromide	2.31	0.100	mg/L	2.50	ND	92.6	85-115	0.345	20	
Chloride	25.3	1.00	mg/L	25.0	1.16	96.5	85-115	0.424	20	
Fluoride	2.62	0.100	mg/L	2.50	0.161	98.5	85-115	0.0381	20	
Sulfate	41.7	1.00	mg/L	25.0	17.2	98.0	85-115	0.618	20	

Matrix Spike Dup (B230296-MSD2)

Source: 2302025-02 Prepared: 02/09/23 Analyzed: 02/13/23

Bromide	2.38	0.100	mg/L	2.50	ND	95.2	85-115	4.42	20	
Chloride	50.0	1.00	mg/L	25.0	25.6	97.8	85-115	2.45	20	
Fluoride	2.53	0.100	mg/L	2.50	0.342	87.3	85-115	3.73	20	
Sulfate	207	1.00	mg/L	25.0	185	87.0	85-115	0.369	20	

Batch B230299 - General Prep - Wet Chem

Duplicate (B230299-DUP1)

Source: 2302096-02 Prepared & Analyzed: 02/09/23

pH	7.53		pH Units	7.43				1.34	20	
pH Temperature, degrees C	17.9		pH Units	17.2				3.99	200	

Reference (B230299-SRM1)

Prepared & Analyzed: 02/09/23

pH	7.08		pH Units	7.00		101	98.57-101.42			
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Batch B230300 - General Prep - Wet Chem

Duplicate (B230300-DUP1)

Source: 2302096-02 Prepared & Analyzed: 02/09/23

Conductivity	8690	1.00	umho/cm@25C	8770				0.916	20	
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Reference (B230300-SRM1)

Prepared & Analyzed: 02/09/23

Conductivity	996	1.00	umho/cm@25C	1000		99.6	90-110			
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Batch B230301 - General Prep - Wet Chem

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**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230301 - General Prep - Wet Chem (Continued)

Blank (B230301-BLK1) Prepared & Analyzed: 02/10/23										
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							U
Alkalinity, Total as CaCO3	ND	10.0	mg/L							U

LCS (B230301-BS1) Prepared & Analyzed: 02/10/23										
Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115			

LCS Dup (B230301-BSD1) Prepared & Analyzed: 02/10/23										
Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115	0.00	20	

Matrix Spike (B230301-MS1) Source: 2302001-01 Prepared & Analyzed: 02/10/23										
Alkalinity, Total as CaCO3	568	10.0	mg/L	100	480	88.0	80-120			

Matrix Spike (B230301-MS2) Source: 2302002-01 Prepared & Analyzed: 02/10/23										
Alkalinity, Total as CaCO3	348	10.0	mg/L	100	262	86.0	80-120			

Matrix Spike Dup (B230301-MSD1) Source: 2302001-01 Prepared & Analyzed: 02/10/23										
Alkalinity, Total as CaCO3	571	10.0	mg/L	100	480	91.0	80-120	0.527	20	

Matrix Spike Dup (B230301-MSD2) Source: 2302002-01 Prepared & Analyzed: 02/10/23										
Alkalinity, Total as CaCO3	349	10.0	mg/L	100	262	87.0	80-120	0.287	20	

Batch B230302 - General Prep - Wet Chem

Blank (B230302-BLK1) Prepared & Analyzed: 02/10/23										
Chromium VI, Dissolved	ND	0.0100	mg/L							U

LCS (B230302-BS1) Prepared & Analyzed: 02/10/23										
Chromium VI, Dissolved	0.105	0.0100	mg/L	0.100		105	85-115			

LCS Dup (B230302-BSD1) Prepared & Analyzed: 02/10/23										
Chromium VI, Dissolved	0.102	0.0100	mg/L	0.100		102	85-115	3.60	20	

Matrix Spike (B230302-MS1) Source: 2302081-01 Prepared & Analyzed: 02/10/23										
Chromium VI, Dissolved	0.0953	0.0100	mg/L	0.100	0.00979	85.6	80-120			

Matrix Spike Dup (B230302-MSD1) Source: 2302081-01 Prepared & Analyzed: 02/10/23										
Chromium VI, Dissolved	0.100	0.0100	mg/L	0.100	0.00979	90.5	80-120	5.63	20	

Batch B230303 - General Prep - Wet Chem

Blank (B230303-BLK1) Prepared & Analyzed: 02/13/23										
Total Dissolved Solids	ND	10.0	mg/L							U

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022 Project Manager: Bruce Smith	Reported: 02/28/23 15:49
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**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230303 - General Prep - Wet Chem (Continued)

Duplicate (B230303-DUP1)		Source: 2302065-01		Prepared & Analyzed: 02/13/23						
Total Dissolved Solids	260	10.0	mg/L		285			9.20	20	

Reference (B230303-SRM1)		Prepared & Analyzed: 02/13/23								
Total Dissolved Solids	350	10.0	mg/L	380		92.1	85-115			

Batch B230337 - Lachat

Blank (B230337-BLK1)		Prepared: 02/15/23 Analyzed: 02/17/23								
Phosphorus, Total	ND	0.0500	mg P/L							U

LCS (B230337-BS1)		Prepared: 02/15/23 Analyzed: 02/17/23								
Phosphorus, Total	2.72	0.0500	mg P/L	2.50		109	90-110			

LCS Dup (B230337-BSD1)		Prepared: 02/15/23 Analyzed: 02/17/23								
Phosphorus, Total	2.69	0.0500	mg P/L	2.50		108	90-110	1.02	20	

Matrix Spike (B230337-MS1)		Source: 2302080-02		Prepared: 02/15/23 Analyzed: 02/17/23						
Phosphorus, Total	2.73	0.0500	mg P/L	2.50	0.0866	106	90-110			

Matrix Spike (B230337-MS2)		Source: 2302104-02		Prepared: 02/15/23 Analyzed: 02/17/23						
Phosphorus, Total	3.03	0.0500	mg P/L	2.50	0.357	107	90-110			

Matrix Spike Dup (B230337-MSD1)		Source: 2302080-02		Prepared: 02/15/23 Analyzed: 02/17/23						
Phosphorus, Total	2.72	0.0500	mg P/L	2.50	0.0866	106	90-110	0.315	20	

Matrix Spike Dup (B230337-MSD2)		Source: 2302104-02		Prepared: 02/15/23 Analyzed: 02/17/23						
Phosphorus, Total	3.03	0.0500	mg P/L	2.50	0.357	107	90-110	0.0495	20	

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022 Project Manager: Bruce Smith	Reported: 02/28/23 15:49
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Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230322 - Dissolved ICP

Blank (B230322-BLK1)

Prepared & Analyzed: 02/14/23

Boron	ND	0.300	mg/L							U
Calcium	ND	0.100	mg/L							U
Iron	ND	0.050	mg/L							U
Magnesium	ND	0.100	mg/L							U
Potassium	ND	1.00	mg/L							U
Silicon	ND	0.500	mg/L							U
Sodium	ND	1.00	mg/L							U
Strontium	ND	0.100	mg/L							U

LCS (B230322-BS1)

Prepared & Analyzed: 02/14/23

Boron	4.13	0.300	mg/L	4.00		103	85-115			
Calcium	4.15	0.100	mg/L	4.00		104	85-115			
Iron	4.10	0.050	mg/L	4.00		103	85-115			
Magnesium	20.7	0.100	mg/L	20.0		104	85-115			
Potassium	8.33	1.00	mg/L	8.00		104	85-115			
Silicon	4.40	0.500	mg/L	4.00		110	85-115			
Sodium	3.22	1.00	mg/L	3.24		99.3	85-115			
Strontium	4.08	0.100	mg/L	4.00		102	85-115			

LCS Dup (B230322-BSD1)

Prepared & Analyzed: 02/14/23

Boron	4.16	0.300	mg/L	4.00		104	85-115	0.703	20	
Calcium	4.06	0.100	mg/L	4.00		101	85-115	2.36	20	
Iron	4.07	0.050	mg/L	4.00		102	85-115	0.865	20	
Magnesium	20.5	0.100	mg/L	20.0		103	85-115	0.934	20	
Potassium	8.38	1.00	mg/L	8.00		105	85-115	0.589	20	
Silicon	4.32	0.500	mg/L	4.00		108	85-115	1.74	20	
Sodium	3.22	1.00	mg/L	3.24		99.4	85-115	0.161	20	
Strontium	4.02	0.100	mg/L	4.00		101	85-115	1.44	20	

Matrix Spike (B230322-MS1)

Source: 2302074-01 Prepared & Analyzed: 02/14/23

Boron	4.24	0.300	mg/L	4.00	ND	106	70-130			
Calcium	69.7	0.100	mg/L	4.00	70.2	NR	70-130			M3
Iron	3.99	0.050	mg/L	4.00	ND	99.7	70-130			
Magnesium	31.7	0.100	mg/L	20.0	12.6	95.6	70-130			
Potassium	14.8	1.00	mg/L	8.00	7.19	95.3	70-130			
Silicon	7.87	0.500	mg/L	4.00	3.14	118	70-130			
Sodium	47.8	1.00	mg/L	3.24	47.3	14.6	70-130			M3
Strontium	4.60	0.100	mg/L	4.00	0.674	98.1	70-130			

Matrix Spike (B230322-MS2)

Source: 2302084-01 Prepared & Analyzed: 02/14/23

Boron	4.40	0.300	mg/L	4.00	ND	110	70-130			
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**Dissolved Metals by ICP - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230322 - Dissolved ICP (Continued)

Matrix Spike (B230322-MS2) (Continued)

Source: 2302084-01 Prepared & Analyzed: 02/14/23

Calcium	12.9	0.100	mg/L	4.00	8.96	98.4	70-130			
Iron	4.34	0.050	mg/L	4.00	0.128	105	70-130			
Magnesium	24.1	0.100	mg/L	20.0	2.80	107	70-130			
Potassium	9.03	1.00	mg/L	8.00	0.438	107	70-130			
Silicon	10.2	0.500	mg/L	4.00	5.41	120	70-130			
Sodium	5.93	1.00	mg/L	3.24	2.54	105	70-130			
Strontium	4.20	0.100	mg/L	4.00	0.031	104	70-130			

Matrix Spike Dup (B230322-MSD1)

Source: 2302074-01 Prepared & Analyzed: 02/14/23

Boron	3.96	1.50	mg/L	4.00	ND	98.9	70-130	6.90	20	
Calcium	68.6	0.500	mg/L	4.00	70.2	NR	70-130	1.57	20	M3
Iron	3.79	0.250	mg/L	4.00	ND	94.8	70-130	5.09	20	
Magnesium	31.1	0.500	mg/L	20.0	12.6	92.6	70-130	1.94	20	
Potassium	14.5	5.00	mg/L	8.00	7.19	90.9	70-130	2.39	20	
Silicon	7.42	2.50	mg/L	4.00	3.14	107	70-130	5.90	20	
Sodium	47.7	5.00	mg/L	3.24	47.3	12.1	70-130	0.172	20	M3
Strontium	4.35	0.500	mg/L	4.00	0.674	91.9	70-130	5.54	20	

Matrix Spike Dup (B230322-MSD2)

Source: 2302084-01 Prepared & Analyzed: 02/14/23

Boron	3.73	1.50	mg/L	4.00	ND	93.2	70-130	16.5	20	
Calcium	11.9	0.500	mg/L	4.00	8.96	74.6	70-130	7.69	20	
Iron	3.55	0.250	mg/L	4.00	ND	88.8	70-130	19.9	20	
Magnesium	20.3	0.500	mg/L	20.0	2.80	87.3	70-130	17.4	20	
Potassium	7.56	5.00	mg/L	8.00	0.438	89.1	70-130	17.7	20	
Silicon	9.03	2.50	mg/L	4.00	5.41	90.6	70-130	12.1	20	
Sodium	4.89	5.00	mg/L	3.24	2.54	72.6	70-130	19.2	20	J
Strontium	3.44	0.500	mg/L	4.00	0.031	85.1	70-130	19.9	20	

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Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230311 - Dissolved ICPMS

Blank (B230311-BLK1)

Prepared & Analyzed: 02/13/23

Arsenic	ND	0.0005	mg/L							U
Barium	ND	0.0005	mg/L							U
Cadmium	ND	0.0005	mg/L							U
Chromium	ND	0.0010	mg/L							U
Copper	ND	0.0005	mg/L							U
Lead	ND	0.0005	mg/L							U
Manganese	ND	0.0005	mg/L							U
Nickel	ND	0.0005	mg/L							U
Selenium	ND	0.0010	mg/L							U
Silver	ND	0.0002	mg/L							U
Zinc	ND	0.0020	mg/L							U

LCS (B230311-BS1)

Prepared & Analyzed: 02/13/23

Arsenic	0.0505	0.0005	mg/L	0.0500		101	85-115			
Barium	0.0506	0.0005	mg/L	0.0500		101	85-115			
Cadmium	0.0496	0.0005	mg/L	0.0500		99.2	85-115			
Chromium	0.0475	0.0010	mg/L	0.0500		95.0	85-115			
Copper	0.0490	0.0005	mg/L	0.0500		97.9	85-115			
Lead	0.0503	0.0005	mg/L	0.0500		101	85-115			
Manganese	0.0524	0.0005	mg/L	0.0500		105	85-115			
Nickel	0.0500	0.0005	mg/L	0.0500		100	85-115			
Selenium	0.251	0.0010	mg/L	0.250		100	85-115			
Silver	0.0469	0.0002	mg/L	0.0500		93.9	85-115			
Zinc	0.0494	0.0020	mg/L	0.0500		98.9	85-115			

LCS Dup (B230311-BS1)

Prepared & Analyzed: 02/13/23

Arsenic	0.0505	0.0005	mg/L	0.0500		101	85-115	0.0197	20	
Barium	0.0507	0.0005	mg/L	0.0500		101	85-115	0.108	20	
Cadmium	0.0500	0.0005	mg/L	0.0500		100	85-115	0.782	20	
Chromium	0.0471	0.0010	mg/L	0.0500		94.2	85-115	0.830	20	
Copper	0.0489	0.0005	mg/L	0.0500		97.9	85-115	0.0413	20	
Lead	0.0506	0.0005	mg/L	0.0500		101	85-115	0.597	20	
Manganese	0.0522	0.0005	mg/L	0.0500		104	85-115	0.450	20	
Nickel	0.0496	0.0005	mg/L	0.0500		99.3	85-115	0.773	20	
Selenium	0.253	0.0010	mg/L	0.250		101	85-115	0.645	20	
Silver	0.0470	0.0002	mg/L	0.0500		94.0	85-115	0.154	20	
Zinc	0.0488	0.0020	mg/L	0.0500		97.7	85-115	1.20	20	

Matrix Spike (B230311-MS1)

Source: 2302047-03

Prepared & Analyzed: 02/13/23

Arsenic	0.0530	0.0005	mg/L	0.0500	ND	106	70-130			
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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022
Project Manager: Bruce Smith

Reported:
02/28/23 15:49

**Dissolved Metals by ICPMS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230311 - Dissolved ICPMS (Continued)

Matrix Spike (B230311-MS1) (Continued)

Source: 2302047-03 Prepared & Analyzed: 02/13/23

Barium	0.0497	0.0005	mg/L	0.0500	ND	99.3	70-130			
Cadmium	0.0518	0.0005	mg/L	0.0500	ND	104	70-130			
Chromium	0.0478	0.0010	mg/L	0.0500	ND	95.5	70-130			
Copper	0.0488	0.0005	mg/L	0.0500	0.0010	95.7	70-130			
Lead	0.0486	0.0005	mg/L	0.0500	ND	97.2	70-130			
Manganese	0.0509	0.0005	mg/L	0.0500	0.0003	101	70-130			
Nickel	0.0480	0.0005	mg/L	0.0500	ND	95.9	70-130			
Selenium	0.293	0.0010	mg/L	0.250	ND	117	70-130			
Silver	0.0464	0.0002	mg/L	0.0500	ND	92.9	70-130			
Zinc	0.0564	0.0020	mg/L	0.0500	0.0020	109	70-130			

Matrix Spike (B230311-MS2)

Source: 2302060-01 Prepared & Analyzed: 02/13/23

Arsenic	0.0553	0.0005	mg/L	0.0500	ND	111	70-130			
Barium	0.0804	0.0005	mg/L	0.0500	0.0333	94.3	70-130			
Cadmium	0.0486	0.0005	mg/L	0.0500	ND	97.2	70-130			
Chromium	0.0456	0.0010	mg/L	0.0500	0.0020	87.2	70-130			
Copper	0.0502	0.0005	mg/L	0.0500	0.0085	83.5	70-130			
Lead	0.0511	0.0005	mg/L	0.0500	0.0003	102	70-130			
Manganese	0.0993	0.0005	mg/L	0.0500	0.0541	90.4	70-130			
Nickel	0.0466	0.0005	mg/L	0.0500	0.0033	86.7	70-130			
Selenium	0.283	0.0010	mg/L	0.250	0.0008	113	70-130			
Silver	0.0440	0.0002	mg/L	0.0500	ND	88.0	70-130			
Zinc	0.0954	0.0020	mg/L	0.0500	0.0520	86.7	70-130			

Matrix Spike Dup (B230311-MSD1)

Source: 2302047-03 Prepared & Analyzed: 02/13/23

Arsenic	0.0559	0.0005	mg/L	0.0500	ND	112	70-130	5.34	20	
Barium	0.0496	0.0005	mg/L	0.0500	ND	99.3	70-130	0.0238	20	
Cadmium	0.0523	0.0005	mg/L	0.0500	ND	105	70-130	1.08	20	
Chromium	0.0458	0.0010	mg/L	0.0500	ND	91.6	70-130	4.23	20	
Copper	0.0504	0.0005	mg/L	0.0500	0.0010	98.9	70-130	3.17	20	
Lead	0.0491	0.0005	mg/L	0.0500	ND	98.2	70-130	1.01	20	
Manganese	0.0516	0.0005	mg/L	0.0500	0.0003	103	70-130	1.25	20	
Nickel	0.0469	0.0005	mg/L	0.0500	ND	93.7	70-130	2.32	20	
Selenium	0.297	0.0010	mg/L	0.250	ND	119	70-130	1.22	20	
Silver	0.0436	0.0002	mg/L	0.0500	ND	87.2	70-130	6.32	20	
Zinc	0.0576	0.0020	mg/L	0.0500	0.0020	111	70-130	2.04	20	

Matrix Spike Dup (B230311-MSD2)

Source: 2302060-01 Prepared & Analyzed: 02/13/23

Arsenic	0.0559	0.0005	mg/L	0.0500	ND	112	70-130	1.17	20	
Barium	0.0804	0.0005	mg/L	0.0500	0.0333	94.3	70-130	0.0131	20	

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022
Project Manager: Bruce Smith

Reported:
02/28/23 15:49

Dissolved Metals by ICPMS - Quality Control
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230311 - Dissolved ICPMS (Continued)

Matrix Spike Dup (B230311-MSD2) (Continued)

Source: 2302060-01

Prepared & Analyzed: 02/13/23

Cadmium	0.0492	0.0005	mg/L	0.0500	ND	98.5	70-130	1.28	20	
Chromium	0.0458	0.0010	mg/L	0.0500	0.0020	87.5	70-130	0.329	20	
Copper	0.0504	0.0005	mg/L	0.0500	0.0085	83.9	70-130	0.434	20	
Lead	0.0512	0.0005	mg/L	0.0500	0.0003	102	70-130	0.189	20	
Manganese	0.0988	0.0005	mg/L	0.0500	0.0541	89.4	70-130	0.467	20	
Nickel	0.0469	0.0005	mg/L	0.0500	0.0033	87.2	70-130	0.538	20	
Selenium	0.288	0.0010	mg/L	0.250	0.0008	115	70-130	1.45	20	
Silver	0.0436	0.0002	mg/L	0.0500	ND	87.2	70-130	0.926	20	
Zinc	0.0948	0.0020	mg/L	0.0500	0.0520	85.5	70-130	0.638	20	

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3020966 - General Prep - Organics

Blank (3020966-BLK1)

Prepared: 02/09/23 Analyzed: 02/10/23

Surrogate: 1-Chlorooctadecane	4700		ug/L	5000		93.9	60.1-141			
Surrogate: 1-Chlorooctane	4350		ug/L	5000		87.0	48.8-131			
DRO >C10-C28	ND	1000	ug/L							U
EXT DRO >C28-C36	ND	1000	ug/L							U
GRO C6-C10	ND	1000	ug/L							U

LCS (3020966-BS1)

Prepared: 02/09/23 Analyzed: 02/10/23

Surrogate: 1-Chlorooctadecane	5460		ug/L	5000		109	60.1-141			
Surrogate: 1-Chlorooctane	5290		ug/L	5000		106	48.8-131			
DRO >C10-C28	43600	1000	ug/L	50000		87.1	68.8-126			
GRO C6-C10	42800	1000	ug/L	50000		85.6	69.6-126			

LCS Dup (3020966-BSD1)

Prepared: 02/09/23 Analyzed: 02/10/23

Surrogate: 1-Chlorooctadecane	6760		ug/L	5000		135	60.1-141			
Surrogate: 1-Chlorooctane	5400		ug/L	5000		108	48.8-131			
DRO >C10-C28	42900	1000	ug/L	50000		85.8	68.8-126	1.52	20.4	
GRO C6-C10	43700	1000	ug/L	50000		87.4	69.6-126	2.04	16.8	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022 Project Manager: Bruce Smith	Reported: 02/28/23 15:49
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VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3021309 - Volatiles

Blank (3021309-BLK1)

Prepared: 02/13/23 Analyzed: 02/15/23

1,2,4-Trimethylbenzene	ND	0.5	ug/L							U
1,3,5-Trimethylbenzene	ND	0.5	ug/L							U
<i>Surrogate: 4-Bromofluorobenzene</i>	24.5		ug/L	25.0		98.0	76.4-114			
Benzene	ND	0.5	ug/L							U
<i>Surrogate: Dibromofluoromethane</i>	25.1		ug/L	25.0		100	82.4-141			
Ethylbenzene	ND	0.5	ug/L							U
m+p - Xylene	ND	1	ug/L							U
Naphthalene	ND	0.5	ug/L							U
o-Xylene	ND	0.5	ug/L							U
Toluene	ND	0.5	ug/L							U
<i>Surrogate: Toluene-d8</i>	25.0		ug/L	25.0		99.9	87.1-110			
Total Xylenes	ND	2	ug/L							U

LCS (3021309-BS1)

Prepared: 02/13/23 Analyzed: 02/15/23

1,2,4-Trimethylbenzene	23	0.5	ug/L	20.0		114	85.2-120			
1,3,5-Trimethylbenzene	22	0.5	ug/L	20.0		111	84.3-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.0		ug/L	25.0		100	76.4-114			
Benzene	21	0.5	ug/L	20.0		106	85.9-114			
<i>Surrogate: Dibromofluoromethane</i>	24.9		ug/L	25.0		99.5	82.4-141			
Ethylbenzene	21	0.5	ug/L	20.0		107	81.8-127			
m+p - Xylene	44	1	ug/L	40.0		110	72.4-134			
Naphthalene	21	0.5	ug/L	20.0		107	59.3-140			
o-Xylene	22	0.5	ug/L	20.0		109	76.2-135			
Toluene	20	0.5	ug/L	20.0		101	78.8-121			
<i>Surrogate: Toluene-d8</i>	24.8		ug/L	25.0		99.1	87.1-110			
Total Xylenes	66	2	ug/L	60.0		109	74.3-134			

LCS Dup (3021309-BSD1)

Prepared: 02/13/23 Analyzed: 02/15/23

1,2,4-Trimethylbenzene	23	0.5	ug/L	20.0		114	85.2-120	0.00	8.94	
1,3,5-Trimethylbenzene	22	0.5	ug/L	20.0		112	84.3-120	1.16	16.5	
<i>Surrogate: 4-Bromofluorobenzene</i>	24.9		ug/L	25.0		99.4	76.4-114			
Benzene	21	0.5	ug/L	20.0		107	85.9-114	0.893	4.16	
<i>Surrogate: Dibromofluoromethane</i>	25.3		ug/L	25.0		101	82.4-141			
Ethylbenzene	22	0.5	ug/L	20.0		109	81.8-127	2.13	4.83	
m+p - Xylene	45	1	ug/L	40.0		113	72.4-134	2.81	5.77	
Naphthalene	20	0.5	ug/L	20.0		102	59.3-140	3.87	33.5	
o-Xylene	22	0.5	ug/L	20.0		110	76.2-135	1.37	6.29	
Toluene	21	0.5	ug/L	20.0		103	78.8-121	2.35	5.67	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022 Project Manager: Bruce Smith	Reported: 02/28/23 15:49
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**VOLATILES BY GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3021309 - Volatiles (Continued)

LCS Dup (3021309-BSD1) (Continued)

Prepared: 02/13/23 Analyzed: 02/15/23

Surrogate: Toluene-d8	25.0		ug/L	25.0		100	87.1-110			
Total Xylenes	67	2	ug/L	60.0		112	74.3-134	2.33	5.83	

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022 Project Manager: Bruce Smith	Reported: 02/28/23 15:49
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Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3021311 - SW846-3510

Blank (3021311-BLK1)

Prepared: 02/13/23 Analyzed: 02/21/23

1-Methylnaphthalene	ND	0.5	ug/L							U
<i>Surrogate: 2-Fluorobiphenyl</i>	16.9		ug/L	50.0		33.9	18.9-97.9			
2-Methylnaphthalene	ND	1	ug/L							U
Acenaphthene	0.2	1	ug/L							J
Acenaphthylene	ND	1	ug/L							U
Anthracene	ND	1	ug/L							U
Benzo[a]anthracene	ND	1	ug/L							U
Benzo[a]pyrene	ND	0.2	ug/L							U
Benzo[b]flouranthene	ND	1	ug/L							U
Benzo[g,h,i]perylene	ND	1	ug/L							U
Benzo[k]flouranthene	ND	1	ug/L							U
Carbazole	ND	1	ug/L							U
Chrysene	0.1	1	ug/L							J
Dibenz[a,h]anthracene	ND	1	ug/L							U
Fluoranthene	ND	1	ug/L							U
Fluorene	ND	1	ug/L							U
Indeno[1,2,3-cd]pyrene	ND	1	ug/L							U
Naphthalene	ND	1	ug/L							U
<i>Surrogate: Nitrobenzene-d5</i>	13.8		ug/L	50.0		27.6	20.3-96.6			
Phenanthrene	ND	1	ug/L							U
Pyrene	ND	1	ug/L							U
<i>Surrogate: Terphenyl-dl4</i>	28.9		ug/L	50.0		57.8	14.7-112			

LCS (3021311-BS1)

Prepared: 02/13/23 Analyzed: 02/21/23

1-Methylnaphthalene	6	0.5	ug/L	10.0		64.1	21.2-116			
<i>Surrogate: 2-Fluorobiphenyl</i>	37.0		ug/L	50.0		74.1	18.9-97.9			
2-Methylnaphthalene	7	1	ug/L	10.0		67.3	21-115			
Acenaphthene	7	1	ug/L	10.0		66.3	21.5-122			
Acenaphthylene	7	1	ug/L	10.0		67.9	24.2-119			
Anthracene	7	1	ug/L	10.0		67.0	27-127			
Benzo[a]anthracene	7	1	ug/L	10.0		66.6	21.9-134			
Benzo[a]pyrene	7	0.2	ug/L	10.0		68.7	23.6-140			
Benzo[b]flouranthene	7	1	ug/L	10.0		67.5	20.4-144			
Benzo[g,h,i]perylene	7	1	ug/L	10.0		68.4	24.8-126			
Benzo[k]flouranthene	7	1	ug/L	10.0		74.2	21.8-139			
Carbazole	7	1	ug/L	10.0		69.3	26.4-128			
Chrysene	7	1	ug/L	10.0		67.4	22.2-133			
Dibenz[a,h]anthracene	7	1	ug/L	10.0		68.6	20.3-133			
Fluoranthene	7	1	ug/L	10.0		69.8	27.2-128			

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022
Project Manager: Bruce Smith

Reported:
02/28/23 15:49

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3021311 - SW846-3510 (Continued)

LCS (3021311-BS1) (Continued)

Prepared: 02/13/23 Analyzed: 02/21/23

Fluorene	7	1	ug/L	10.0		69.1	22.9-124			
Indeno[1,2,3-cd]pyrene	7	1	ug/L	10.0		67.2	21.8-132			
Naphthalene	7	1	ug/L	10.0		66.7	18.1-117			
<i>Surrogate: Nitrobenzene-d5</i>	36.7		ug/L	50.0		73.5	20.3-96.6			
Phenanthrene	7	1	ug/L	10.0		70.7	25.6-128			
Pyrene	7	1	ug/L	10.0		67.4	19.1-137			
<i>Surrogate: Terphenyl-d14</i>	33.2		ug/L	50.0		66.4	14.7-112			

LCS Dup (3021311-BS1)

Prepared: 02/13/23 Analyzed: 02/21/23

1-Methylnaphthalene	7	0.5	ug/L	10.0		65.3	21.2-116	1.85	4.3	
<i>Surrogate: 2-Fluorobiphenyl</i>	38.5		ug/L	50.0		76.9	18.9-97.9			
2-Methylnaphthalene	7	1	ug/L	10.0		66.0	21-115	1.95	4.47	
Acenaphthene	7	1	ug/L	10.0		66.4	21.5-122	0.151	3.77	
Acenaphthylene	7	1	ug/L	10.0		67.6	24.2-119	0.443	3.88	
Anthracene	7	1	ug/L	10.0		68.4	27-127	2.07	4.49	
Benzo[a]anthracene	7	1	ug/L	10.0		66.7	21.9-134	0.150	3.03	
Benzo[a]pyrene	7	0.2	ug/L	10.0		68.2	23.6-140	0.730	3.27	
Benzo[b]flouranthene	7	1	ug/L	10.0		67.0	20.4-144	0.743	6.95	
Benzo[g,h,i]perylene	7	1	ug/L	10.0		69.7	24.8-126	1.88	6.35	
Benzo[k]flouranthene	8	1	ug/L	10.0		75.9	21.8-139	2.27	8.16	
Carbazole	7	1	ug/L	10.0		66.8	26.4-128	3.67	4.78	
Chrysene	7	1	ug/L	10.0		68.9	22.2-133	2.20	3.42	
Dibenz[a,h]anthracene	7	1	ug/L	10.0		70.2	20.3-133	2.31	4.77	
Fluoranthene	7	1	ug/L	10.0		65.4	27.2-128	6.51	6.19	QR-04
Fluorene	7	1	ug/L	10.0		67.0	22.9-124	3.09	4.31	
Indeno[1,2,3-cd]pyrene	7	1	ug/L	10.0		69.5	21.8-132	3.37	4.11	
Naphthalene	7	1	ug/L	10.0		67.1	18.1-117	0.598	3.46	
<i>Surrogate: Nitrobenzene-d5</i>	37.0		ug/L	50.0		73.9	20.3-96.6			
Phenanthrene	7	1	ug/L	10.0		69.5	25.6-128	1.71	5.04	
Pyrene	7	1	ug/L	10.0		72.0	19.1-137	6.60	7.75	
<i>Surrogate: Terphenyl-d14</i>	34.9		ug/L	50.0		69.8	14.7-112			

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: RU 32-12 Nov/Dec 411 Rule 2022
Project Manager: Bruce Smith

Reported:
02/28/23 15:49

Notes and Definitions

- U Analyte included in the analysis, but not detected
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- M3 Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- H1 Sample was received several days after collected and subsequently analyzed past hold time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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GREEN
ANALYTICAL
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75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
COC - Revision 6.0

Company or Client: Western Water and Land, Inc. Address: 743 Horizon Ct. Ste. 330 City: Grand Junction State: CO Zip: 81506 Phone #: 970-242-0170 Contact Person: Bruce Smith Email Report to: bsmith@westernwaterandland.com Project Name (optional): RU 32-12 New/oez 411 Rule 2022		P.O. #: Company: TEP Rocky Mountain Attn: Tammy Gosc Address: 1058 CR 315 City: Parachute State: CO Zip: 81635 Phone #: 970-712-6019 Email: tammy.gosc@tereco.com		Bill to (if different):			
Sampler Name (Print): AJK		Collected		Matrix (check one)		# of containers	
For Lab Use		Sample Name or Location		<input type="checkbox"/> GROUNDWATER <input checked="" type="checkbox"/> SURFACEWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> PRODUCEDWATER <input type="checkbox"/> SOIL <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> OTHER :		<input type="checkbox"/> No preservation (general) <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> HCl <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Other: <input type="checkbox"/> Other:	
2302-081 01		BC 10		2/7/23 1330		5 Rule 411	
Relinquished by: [Signature]		Received by: Food-Ex [Signature]		Date: 2/7/23 Time: 5:30pm		Report to State? (circle)	
Relinquished by: Food-Ex		Received by: [Signature]		Date: 2-8-23 Time: 1400		Resampled due Yes No	
Relinquished by:		Received by:		Date:		to weather related shipment delays.	
Relinquished by:		Received by:		Date:		Lasor #2	
Relinquished by:		Received by:		Date:		Temperature at receipt: 4.5°C	
Relinquished by:		Received by:		Date:		CHECKED BY: [Signature]	
Relinquished by:		Received by:		Date:		On Ice <input checked="" type="checkbox"/>	
Relinquished by:		Received by:		Date:		No Ice	

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

* GAL cannot always accept verbal changes. Please fax or email written change requests.
 † Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.
 Just Click Printing Form #17-0301



SAMPLE CONDITION RECEIPT FORM

Client Name: Western H₂O + Land

Work Order # 2302-081

Courier: Fed Ex UPS USPS Client

Custody Seals on Box/Cooler Present: Yes No

Seals Intact: Yes No

Thermometer Used: 2 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None

Cooler Temp: Observed Temp: 4.5 °C Correction Factor: 0 °C Final Temp: 4.5 °C

*Temp should be above freezing to 6°C

Date/Initials of person examining contents: VJW 2/8/23
Labeled by initials: _____
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. <u>CR+, NOx, pH</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	<input checked="" type="checkbox"/> WT <input type="checkbox"/> SL <input checked="" type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

