



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

22 March 2022

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 03/09/22 12:00. 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 black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

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: T104704514-22-13

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: T104704398-21-14



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

Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Parachute 2	2203088-01	Water	03/08/22 10:45	03/09/22 12:00	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

Parachute 2

2203088-01 (Surface Water)

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

Alkalinity, Bicarbonate as CaCO3*	315	10.0	2.27	mg/L	5	03/17/22 09:50	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<2.27	10.0	2.27	mg/L	5	03/17/22 09:50	2320 B	U	VJW
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	5	03/17/22 09:50	2320 B	U	VJW
Alkalinity, Total as CaCO3*	315	10.0	2.27	mg/L	5	03/17/22 09:50	2320 B		VJW
Bromide	0.0950	0.100	0.0274	mg/L	1	03/11/22 13:52	EPA300.0	J	AES
Chloride*	4.07	1.00	0.0304	mg/L	1	03/11/22 13:52	EPA300.0		AES
Chromium VI, Dissolved	<0.00512	0.0100	0.00512	mg/L	1	03/09/22 12:30	3500-Cr D	H1, U	DTR
Conductivity*	570	1.00		umho/cm @ 25.0°C	1	03/09/22 16:50	2510 B		VJW
Fluoride*	0.230	0.100	0.00971	mg/L	1	03/11/22 13:52	EPA300.0		AES
Nitrate as N*	1.04	0.020	0.007	mg/L	1	03/09/22 16:40	EPA300.0		AES
Nitrate+Nitrite as N by IC	1.04	0.0400	0.0110	mg/L	1	03/09/22 16:40	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	03/09/22 16:40	EPA300.0	U	AES
pH*	7.65			pH Units	1	03/09/22 16:50	EPA150.1		VJW
pH Temperature, degrees C	24.3			pH Units	1	03/09/22 16:50	EPA150.1		VJW
Phosphorus, Total	0.0296	0.0500	0.0164	mg P/L	1	03/11/22 11:02	EPA365.1	J	DTR
Total Dissolved Solids*	330	10.0		mg/L	1	03/10/22 13:31	EPA160.1		VJW
Sulfate*	28.2	1.00	0.124	mg/L	1	03/11/22 13:52	EPA300.0		AES

Dissolved Metals by ICP

Boron	<0.122	0.300	0.122	mg/L	1	03/15/22 10:10	EPA200.7	U	AES
Calcium*	29.8	0.100	0.024	mg/L	1	03/15/22 10:10	EPA200.7		AES
Iron*	<0.036	0.050	0.036	mg/L	1	03/15/22 10:10	EPA200.7	U	AES
Magnesium*	28.0	0.100	0.031	mg/L	1	03/15/22 10:10	EPA200.7		AES
Potassium*	2.10	1.00	0.065	mg/L	1	03/15/22 10:10	EPA200.7		AES
Sodium*	39.7	1.00	0.106	mg/L	1	03/15/22 10:10	EPA200.7		AES
Strontium*	0.638	0.100	0.004	mg/L	1	03/15/22 10:10	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	0.0043	0.0005	0.0002	mg/L	1	03/14/22 17:23	EPA200.8		AES
Barium*	0.161	0.0005	0.0003	mg/L	1	03/14/22 17:23	EPA200.8		AES
Cadmium*	<0.00003	0.0005	0.00003	mg/L	1	03/14/22 17:23	EPA200.8	U	AES
Chromium*	0.0043	0.0010	0.0004	mg/L	1	03/14/22 17:23	EPA200.8		AES
Chromium III, Dissolved	<0.0100	0.0100	0.00512	mg/L	1	03/14/22 17:23	Calculation		DTR
Copper*	0.0017	0.0005	0.00008	mg/L	1	03/14/22 17:23	EPA200.8		AES
Lead*	<0.00009	0.0005	0.00009	mg/L	1	03/14/22 17:23	EPA200.8	U	AES
Manganese*	0.0004	0.0005	0.00009	mg/L	1	03/14/22 17:23	EPA200.8	J	AES

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Debbie Zufelt, Reports Manager

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Parachute 2

2203088-01 (Surface Water)

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

Nickel*	0.0022	0.0005	0.0002	mg/L	1	03/14/22 17:23	EPA200.8		AES
Selenium*	0.0026	0.0010	0.0006	mg/L	1	03/14/22 17:23	EPA200.8		AES
Silver*	<0.00009	0.0002	0.00009	mg/L	1	03/14/22 17:23	EPA200.8	U	AES
Zinc*	0.0034	0.0020	0.0003	mg/L	1	03/14/22 17:23	EPA200.8		AES

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

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<0.295	1.00	0.295	mg/L	0.1	03/22/22 03:08	8015B	U	MS
DRO >C10-C28*	<0.670	1.00	0.670	mg/L	0.1	03/22/22 03:08	8015B	U	MS
EXT DRO >C28-C36	<0.670	1.00	0.670	mg/L	0.1	03/22/22 03:08	8015B	U	MS
Surrogate: 1-Chlorooctane			93.1 %	44.9-146		03/22/22 03:08	8015B		MS
Surrogate: 1-Chlorooctadecane			98.6 %	39.8-162		03/22/22 03:08	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.00009	0.0005	0.00009	mg/L	1	03/15/22 14:14	8260B	U	MS
Toluene*	<0.00007	0.0005	0.00007	mg/L	1	03/15/22 14:14	8260B	U	MS
Ethylbenzene*	<0.00009	0.0005	0.00009	mg/L	1	03/15/22 14:14	8260B	U	MS
m+p - Xylene*	<0.0005	0.001	0.0005	mg/L	1	03/15/22 14:14	8260B	U	MS
o-Xylene*	<0.00007	0.0005	0.00007	mg/L	1	03/15/22 14:14	8260B	U	MS
Total Xylenes*	<0.0005	0.002	0.0005	mg/L	1	03/15/22 14:14	8260B	U	MS
1,3,5-Trimethylbenzene	<0.00003	0.0005	0.00003	mg/L	1	03/15/22 14:14	8260B	U	MS
1,2,4-Trimethylbenzene	<0.00003	0.0005	0.00003	mg/L	1	03/15/22 14:14	8260B	U	MS
Naphthalene*	<0.00004	0.0005	0.00004	mg/L	1	03/15/22 14:14	8260B	U	MS
Surrogate: Dibromofluoromethane			101 %	82.4-141		03/15/22 14:14	8260B		MS
Surrogate: Toluene-d8			103 %	87.1-110		03/15/22 14:14	8260B		MS
Surrogate: 4-Bromofluorobenzene			91.7 %	76.4-114		03/15/22 14:14	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.0001	0.001	0.0001	mg/L	0.95	03/15/22 21:07	8270C	U	MS
2-Methylnaphthalene*	<0.00007	0.001	0.00007	mg/L	0.95	03/15/22 21:07	8270C	U	MS
1-Methylnaphthalene	<0.00007	0.0005	0.00007	mg/L	0.95	03/15/22 21:07	8270C	U	MS

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Parachute 2

2203088-01 (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

Acenaphthylene*	<0.00007	0.001	0.00007	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Acenaphthene*	<0.00008	0.001	0.00008	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Fluorene*	<0.00003	0.001	0.00003	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Phenanthrene*	<0.00008	0.001	0.00008	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Anthracene*	<0.00008	0.001	0.00008	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Carbazole*	<0.0001	0.001	0.0001	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Fluoranthene*	<0.00006	0.001	0.00006	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Pyrene*	<0.00008	0.001	0.00008	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Benzo[a]anthracene*	<0.00006	0.001	0.00006	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Chrysene*	<0.00006	0.001	0.00006	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Benzo[b]fluoranthene*	<0.0001	0.001	0.0001	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Benzo[k]fluoranthene*	<0.00007	0.001	0.00007	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Benzo[a]pyrene*	<0.00004	0.0002	0.00004	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Indeno[1,2,3-cd]pyrene*	<0.00004	0.001	0.00004	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Dibenz[a,h]anthracene*	<0.0004	0.001	0.0004	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Benzo[g,h,i]perylene*	<0.0003	0.001	0.0003	mg/L	0.95	03/15/22 21:07	8270C	U	MS
Surrogate: Nitrobenzene-d5			61.1 %	20.3-96.6		03/15/22 21:07	8270C		MS
Surrogate: 2-Fluorobiphenyl			63.6 %	18.9-97.9		03/15/22 21:07	8270C		MS
Surrogate: Terphenyl-d14			64.9 %	14.7-112		03/15/22 21:07	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 B220642 - General Prep - Wet Chem

Blank (B220642-BLK1)										
Prepared & Analyzed: 03/09/22										
Chromium VI, Dissolved	ND	0.0100	mg/L							U

LCS (B220642-BS1)										
Prepared & Analyzed: 03/09/22										
Chromium VI, Dissolved	0.105	0.0100	mg/L	0.100		105	85-115			

LCS Dup (B220642-BSD1)										
Prepared & Analyzed: 03/09/22										
Chromium VI, Dissolved	0.103	0.0100	mg/L	0.100		103	85-115	2.13	20	

Batch B220644 - IC- Ion Chromatograph

Blank (B220644-BLK1)										
Prepared & Analyzed: 03/09/22										
Nitrate as N	ND	0.020	mg/L							U
Nitrite as N	ND	0.020	mg/L							U

LCS (B220644-BS1)										
Prepared & Analyzed: 03/09/22										
Nitrate as N	1.03	0.020	mg/L	1.00		103	90-110			
Nitrite as N	1.01	0.020	mg/L	1.00		101	90-110			

LCS Dup (B220644-BSD1)										
Prepared & Analyzed: 03/09/22										
Nitrate as N	1.04	0.020	mg/L	1.00		104	90-110	1.54	20	
Nitrite as N	1.02	0.020	mg/L	1.00		102	90-110	0.880	20	

Batch B220645 - General Prep - Wet Chem

Blank (B220645-BLK1)										
Prepared & Analyzed: 03/10/22										
Total Dissolved Solids	4.96	10.0	mg/L							J

Duplicate (B220645-DUP1)										
Source: 2203063-01 Prepared & Analyzed: 03/10/22										
Total Dissolved Solids	5500	20.0	mg/L		5560			1.08	20	

Reference (B220645-SRM1)										
Prepared & Analyzed: 03/10/22										
Total Dissolved Solids	605	10.0	mg/L	600		101	85-115			

Batch B220647 - Lachat

Blank (B220647-BLK1)										
Prepared: 03/10/22 Analyzed: 03/11/22										
Phosphorus, Total	ND	0.0500	mg P/L							U

LCS (B220647-BS1)										
Prepared: 03/10/22 Analyzed: 03/11/22										
Phosphorus, Total	2.40	0.0500	mg P/L	2.50		95.9	90-110			

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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 B220647 - Lachat (Continued)

LCS Dup (B220647-BSD1)

Prepared: 03/10/22 Analyzed: 03/11/22

Phosphorus, Total	2.51	0.0500	mg P/L	2.50		101	90-110	4.78	20	
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Batch B220650 - General Prep - Wet Chem

Duplicate (B220650-DUP1)

Source: 2203067-01 Prepared & Analyzed: 03/09/22

pH	8.11		pH Units		7.71			5.06	20	
pH Temperature, degrees C	19.9		pH Units		21.3			6.80	200	

Reference (B220650-SRM1)

Prepared & Analyzed: 03/09/22

pH	7.02		pH Units	7.00		100	98.57-101.42			
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Batch B220651 - General Prep - Wet Chem

Duplicate (B220651-DUP1)

Source: 2203067-01 Prepared & Analyzed: 03/09/22

Conductivity	12300	1.00	umho/cm @ 25.0°C		12500			1.37	20	
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Reference (B220651-SRM1)

Prepared & Analyzed: 03/09/22

Conductivity	1030	1.00	umho/cm @ 25.0°C	1000		103	90-110			
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Batch B220655 - IC- Ion Chromatograph

Blank (B220655-BLK1)

Prepared & Analyzed: 03/11/22

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 (B220655-BS1)

Prepared & Analyzed: 03/11/22

Bromide	2.49	0.100	mg/L	2.50		99.6	90-110			
Chloride	24.9	1.00	mg/L	25.0		99.5	90-110			
Fluoride	2.39	0.100	mg/L	2.50		95.4	90-110			
Sulfate	24.5	1.00	mg/L	25.0		98.1	90-110			

LCS Dup (B220655-BSD1)

Prepared & Analyzed: 03/11/22

Bromide	2.55	0.100	mg/L	2.50		102	90-110	2.30	20	
Chloride	24.6	1.00	mg/L	25.0		98.5	90-110	0.978	20	
Fluoride	2.37	0.100	mg/L	2.50		94.6	90-110	0.842	20	
Sulfate	24.3	1.00	mg/L	25.0		97.3	90-110	0.827	20	

Batch B220679 - General Prep - Wet Chem

Blank (B220679-BLK1)

Prepared: 03/14/22 Analyzed: 03/17/22

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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 B220679 - General Prep - Wet Chem (Continued)

Alkalinity, Bicarbonate as CaCO3	7.00	10.0	mg/L							J
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							U
Alkalinity, Total as CaCO3	7.00	10.0	mg/L							J

LCS (B220679-BS1)

Prepared: 03/14/22 Analyzed: 03/17/22

Alkalinity, Bicarbonate as CaCO3	102	10.0	mg/L	100		102	85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Total as CaCO3	102	10.0	mg/L	100		102	85-115			

LCS (B220679-BS2)

Prepared: 03/14/22 Analyzed: 03/17/22

Alkalinity, Bicarbonate as CaCO3	110	10.0	mg/L	100		110	85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Total as CaCO3	110	10.0	mg/L	100		110	85-115			

LCS (B220679-BS3)

Prepared: 03/14/22 Analyzed: 03/17/22

Alkalinity, Bicarbonate as CaCO3	109	10.0	mg/L	100		109	85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Total as CaCO3	109	10.0	mg/L	100		109	85-115			

LCS Dup (B220679-BSD1)

Prepared: 03/14/22 Analyzed: 03/17/22

Alkalinity, Bicarbonate as CaCO3	108	10.0	mg/L	100		108	85-115	5.71	20	
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115		20	U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115		20	U
Alkalinity, Total as CaCO3	108	10.0	mg/L	100		108	85-115	5.71	20	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 Project Name / Number: Tompkins 411 Workover Project Manager: Bruce Smith	Reported: 03/22/22 11:37
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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 B220666 - Dissolved ICP

Blank (B220666-BLK1)

Prepared: 03/14/22 Analyzed: 03/15/22

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
Sodium	ND	1.00	mg/L							U
Strontium	ND	0.100	mg/L							U

LCS (B220666-BS1)

Prepared: 03/14/22 Analyzed: 03/15/22

Boron	4.94	0.300	mg/L	5.00		98.9	85-115			
Calcium	4.86	0.100	mg/L	5.00		97.2	85-115			
Iron	4.83	0.050	mg/L	5.00		96.5	85-115			
Magnesium	24.9	0.100	mg/L	25.0		99.8	85-115			
Potassium	10.0	1.00	mg/L	10.0		100	85-115			
Sodium	3.92	1.00	mg/L	4.05		96.7	85-115			
Strontium	4.92	0.100	mg/L	5.00		98.4	85-115			

LCS Dup (B220666-BSD1)

Prepared: 03/14/22 Analyzed: 03/15/22

Boron	4.83	0.300	mg/L	5.00		96.7	85-115	2.30	20	
Calcium	4.71	0.100	mg/L	5.00		94.2	85-115	3.17	20	
Iron	4.68	0.050	mg/L	5.00		93.6	85-115	3.03	20	
Magnesium	24.3	0.100	mg/L	25.0		97.0	85-115	2.81	20	
Potassium	9.71	1.00	mg/L	10.0		97.1	85-115	3.14	20	
Sodium	3.81	1.00	mg/L	4.05		94.1	85-115	2.71	20	
Strontium	4.79	0.100	mg/L	5.00		95.7	85-115	2.74	20	

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Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

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 B220667 - Dissolved ICPMS

Blank (B220667-BLK1)

Prepared & Analyzed: 03/14/22

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 (B220667-BS1)

Prepared & Analyzed: 03/14/22

Arsenic	0.0510	0.0005	mg/L	0.0500		102	85-115			
Barium	0.0513	0.0005	mg/L	0.0500		103	85-115			
Cadmium	0.0503	0.0005	mg/L	0.0500		101	85-115			
Chromium	0.0518	0.0010	mg/L	0.0500		104	85-115			
Copper	0.0482	0.0005	mg/L	0.0500		96.3	85-115			
Lead	0.0523	0.0005	mg/L	0.0500		105	85-115			
Manganese	0.0515	0.0005	mg/L	0.0500		103	85-115			
Nickel	0.0509	0.0005	mg/L	0.0500		102	85-115			
Selenium	0.254	0.0010	mg/L	0.250		101	85-115			
Silver	0.0507	0.0002	mg/L	0.0500		101	85-115			
Zinc	0.0509	0.0020	mg/L	0.0500		102	85-115			

LCS Dup (B220667-BSD1)

Prepared & Analyzed: 03/14/22

Arsenic	0.0500	0.0005	mg/L	0.0500		100	85-115	1.86	20	
Barium	0.0495	0.0005	mg/L	0.0500		99.1	85-115	3.58	20	
Cadmium	0.0503	0.0005	mg/L	0.0500		101	85-115	0.0838	20	
Chromium	0.0515	0.0010	mg/L	0.0500		103	85-115	0.568	20	
Copper	0.0471	0.0005	mg/L	0.0500		94.3	85-115	2.17	20	
Lead	0.0524	0.0005	mg/L	0.0500		105	85-115	0.148	20	
Manganese	0.0514	0.0005	mg/L	0.0500		103	85-115	0.230	20	
Nickel	0.0498	0.0005	mg/L	0.0500		99.5	85-115	2.32	20	
Selenium	0.252	0.0010	mg/L	0.250		101	85-115	0.500	20	
Silver	0.0511	0.0002	mg/L	0.0500		102	85-115	0.892	20	
Zinc	0.0501	0.0020	mg/L	0.0500		100	85-115	1.59	20	

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Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

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 2031620 - General Prep - Organics

Blank (2031620-BLK1)

Prepared: 03/16/22 Analyzed: 03/22/22

Surrogate: 1-Chlorooctadecane	5.62		mg/L	5.00		112	39.8-162			
Surrogate: 1-Chlorooctane	5.24		mg/L	5.00		105	44.9-146			
DRO >C10-C28	ND	1.00	mg/L							U
EXT DRO >C28-C36	ND	1.00	mg/L							U
GRO C6-C10	ND	1.00	mg/L							U

LCS (2031620-BS1)

Prepared: 03/16/22 Analyzed: 03/22/22

Surrogate: 1-Chlorooctadecane	6.27		mg/L	5.00		125	39.8-162			
Surrogate: 1-Chlorooctane	6.32		mg/L	5.00		126	44.9-146			
DRO >C10-C28	49.5	1.00	mg/L	50.0		99.0	70-121			
GRO C6-C10	48.0	1.00	mg/L	50.0		96.0	72.4-116			

LCS Dup (2031620-BSD1)

Prepared: 03/16/22 Analyzed: 03/22/22

Surrogate: 1-Chlorooctadecane	6.30		mg/L	5.00		126	39.8-162			
Surrogate: 1-Chlorooctane	6.34		mg/L	5.00		127	44.9-146			
DRO >C10-C28	51.7	1.00	mg/L	50.0		103	70-121	4.40	24.8	
GRO C6-C10	49.3	1.00	mg/L	50.0		98.5	72.4-116	2.55	8.73	

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Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

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 2031420 - Volatiles

Blank (2031420-BLK1)

Prepared: 03/14/22 Analyzed: 03/15/22

1,2,4-Trimethylbenzene	ND	0.0005	mg/L							U
1,3,5-Trimethylbenzene	ND	0.0005	mg/L							U
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0234		mg/L	0.0250		93.4	76.4-114			
Benzene	ND	0.0005	mg/L							U
<i>Surrogate: Dibromofluoromethane</i>	0.0216		mg/L	0.0250		86.4	82.4-141			
Ethylbenzene	ND	0.0005	mg/L							U
m+p - Xylene	ND	0.001	mg/L							U
Naphthalene	ND	0.0005	mg/L							U
o-Xylene	ND	0.0005	mg/L							U
Toluene	ND	0.0005	mg/L							U
<i>Surrogate: Toluene-d8</i>	0.0252		mg/L	0.0250		101	87.1-110			
Total Xylenes	ND	0.002	mg/L							U

LCS (2031420-BS1)

Prepared: 03/14/22 Analyzed: 03/15/22

1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		109	85.2-120			
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		106	84.3-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0243		mg/L	0.0250		97.0	76.4-114			
Benzene	0.019	0.0005	mg/L	0.0200		96.6	85.9-114			
<i>Surrogate: Dibromofluoromethane</i>	0.0255		mg/L	0.0250		102	82.4-141			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		102	81.8-127			
m+p - Xylene	0.041	0.001	mg/L	0.0400		102	72.4-134			
Naphthalene	0.022	0.0005	mg/L	0.0200		110	59.3-140			
o-Xylene	0.021	0.0005	mg/L	0.0200		104	76.2-135			
Toluene	0.019	0.0005	mg/L	0.0200		95.3	78.8-121			
<i>Surrogate: Toluene-d8</i>	0.0251		mg/L	0.0250		100	87.1-110			
Total Xylenes	0.062	0.002	mg/L	0.0600		103	74.3-134			

LCS Dup (2031420-BSD1)

Prepared: 03/14/22 Analyzed: 03/15/22

1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		108	85.2-120	0.829	8.94	
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		106	84.3-120	0.331	16.5	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0244		mg/L	0.0250		97.8	76.4-114			
Benzene	0.019	0.0005	mg/L	0.0200		95.6	85.9-114	1.09	4.16	
<i>Surrogate: Dibromofluoromethane</i>	0.0249		mg/L	0.0250		99.6	82.4-141			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		99.8	81.8-127	1.69	4.83	
m+p - Xylene	0.041	0.001	mg/L	0.0400		102	72.4-134	0.367	5.77	
Naphthalene	0.022	0.0005	mg/L	0.0200		110	59.3-140	0.364	33.5	
o-Xylene	0.021	0.0005	mg/L	0.0200		104	76.2-135	0.0480	6.29	
Toluene	0.019	0.0005	mg/L	0.0200		96.6	78.8-121	1.30	5.67	

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Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

**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 2031420 - Volatiles (Continued)

LCS Dup (2031420-BSD1) (Continued)

Prepared: 03/14/22 Analyzed: 03/15/22

Surrogate: Toluene-d8	0.0254		mg/L	0.0250		102	87.1-110			
Total Xylenes	0.062	0.002	mg/L	0.0600		103	74.3-134	0.259	5.83	

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Grand Junction CO, 81506

Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

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 2022527 - SW846-3510

Blank (2022527-BLK1)

Prepared: 02/25/22 Analyzed: 03/04/22

1-Methylnaphthalene	ND	0.0005	mg/L							U
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0310</i>		mg/L	<i>0.0500</i>		<i>61.9</i>	<i>18.9-97.9</i>			
2-Methylnaphthalene	ND	0.001	mg/L							U
Acenaphthene	ND	0.001	mg/L							U
Acenaphthylene	ND	0.001	mg/L							U
Anthracene	ND	0.001	mg/L							U
Benzo[a]anthracene	ND	0.001	mg/L							U
Benzo[a]pyrene	ND	0.0002	mg/L							U
Benzo[b]flouranthene	ND	0.001	mg/L							U
Benzo[g,h,i]perylene	ND	0.001	mg/L							U
Benzo[k]flouranthene	ND	0.001	mg/L							U
Carbazole	ND	0.001	mg/L							U
Chrysene	ND	0.001	mg/L							U
Dibenz[a,h]anthracene	ND	0.001	mg/L							U
Fluoranthene	ND	0.001	mg/L							U
Fluorene	ND	0.001	mg/L							U
Indeno[1,2,3-cd]pyrene	ND	0.001	mg/L							U
Naphthalene	ND	0.001	mg/L							U
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.0280</i>		mg/L	<i>0.0500</i>		<i>55.9</i>	<i>20.3-96.6</i>			
Phenanthrene	ND	0.001	mg/L							U
Pyrene	ND	0.001	mg/L							U
<i>Surrogate: Terphenyl-dl4</i>	<i>0.0304</i>		mg/L	<i>0.0500</i>		<i>60.9</i>	<i>14.7-112</i>			

LCS (2022527-BS1)

Prepared: 02/25/22 Analyzed: 03/04/22

1-Methylnaphthalene	0.007	0.0005	mg/L	0.0100		71.5	21.2-116			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0326</i>		mg/L	<i>0.0500</i>		<i>65.3</i>	<i>18.9-97.9</i>			
2-Methylnaphthalene	0.007	0.001	mg/L	0.0100		70.0	21-115			
Acenaphthene	0.007	0.001	mg/L	0.0100		74.1	21.5-122			
Acenaphthylene	0.008	0.001	mg/L	0.0100		76.5	24.2-119			
Anthracene	0.007	0.001	mg/L	0.0100		72.5	27-127			
Benzo[a]anthracene	0.008	0.001	mg/L	0.0100		81.1	21.9-134			
Benzo[a]pyrene	0.007	0.0002	mg/L	0.0100		74.0	23.6-140			
Benzo[b]flouranthene	0.008	0.001	mg/L	0.0100		76.0	20.4-144			
Benzo[g,h,i]perylene	0.008	0.001	mg/L	0.0100		80.3	24.8-126			
Benzo[k]flouranthene	0.007	0.001	mg/L	0.0100		72.3	21.8-139			
Carbazole	0.008	0.001	mg/L	0.0100		76.9	26.4-128			
Chrysene	0.007	0.001	mg/L	0.0100		73.4	22.2-133			
Dibenz[a,h]anthracene	0.008	0.001	mg/L	0.0100		80.5	20.3-133			
Fluoranthene	0.008	0.001	mg/L	0.0100		78.2	27.2-128			

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Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

**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 2022527 - SW846-3510 (Continued)

LCS (2022527-BS1) (Continued)

Prepared: 02/25/22 Analyzed: 03/04/22

Fluorene	0.007	0.001	mg/L	0.0100		72.4	22.9-124			
Indeno[1,2,3-cd]pyrene	0.008	0.001	mg/L	0.0100		75.3	21.8-132			
Naphthalene	0.007	0.001	mg/L	0.0100		71.0	18.1-117			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.0299</i>		mg/L	<i>0.0500</i>		<i>59.8</i>	<i>20.3-96.6</i>			
Phenanthrene	0.007	0.001	mg/L	0.0100		71.4	25.6-128			
Pyrene	0.007	0.001	mg/L	0.0100		73.3	19.1-137			
<i>Surrogate: Terphenyl-d4</i>	<i>0.0247</i>		mg/L	<i>0.0500</i>		<i>49.4</i>	<i>14.7-112</i>			

LCS Dup (2022527-BS1)

Prepared: 02/25/22 Analyzed: 03/04/22

1-Methylnaphthalene	0.007	0.0005	mg/L	0.0100		72.8	21.2-116	1.80	4.3	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0336</i>		mg/L	<i>0.0500</i>		<i>67.1</i>	<i>18.9-97.9</i>			
2-Methylnaphthalene	0.007	0.001	mg/L	0.0100		74.3	21-115	5.96	4.47	QR-04
Acenaphthene	0.007	0.001	mg/L	0.0100		74.2	21.5-122	0.135	3.77	
Acenaphthylene	0.007	0.001	mg/L	0.0100		72.6	24.2-119	5.23	3.88	QR-04
Anthracene	0.007	0.001	mg/L	0.0100		74.3	27-127	2.45	4.49	
Benzo[a]anthracene	0.008	0.001	mg/L	0.0100		77.8	21.9-134	4.15	3.03	QR-04
Benzo[a]pyrene	0.007	0.0002	mg/L	0.0100		72.0	23.6-140	2.74	3.27	
Benzo[b]flouranthene	0.008	0.001	mg/L	0.0100		78.2	20.4-144	2.85	6.95	
Benzo[g,h,i]perylene	0.008	0.001	mg/L	0.0100		78.0	24.8-126	2.91	6.35	
Benzo[k]flouranthene	0.007	0.001	mg/L	0.0100		73.9	21.8-139	2.19	8.16	
Carbazole	0.008	0.001	mg/L	0.0100		76.7	26.4-128	0.260	4.78	
Chrysene	0.009	0.001	mg/L	0.0100		89.6	22.2-133	19.9	3.42	QR-04
Dibenz[a,h]anthracene	0.008	0.001	mg/L	0.0100		78.4	20.3-133	2.64	4.77	
Fluoranthene	0.007	0.001	mg/L	0.0100		74.9	27.2-128	4.31	6.19	
Fluorene	0.007	0.001	mg/L	0.0100		74.2	22.9-124	2.46	4.31	
Indeno[1,2,3-cd]pyrene	0.007	0.001	mg/L	0.0100		74.4	21.8-132	1.20	4.11	
Naphthalene	0.007	0.001	mg/L	0.0100		72.4	18.1-117	1.95	3.46	
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.0299</i>		mg/L	<i>0.0500</i>		<i>59.7</i>	<i>20.3-96.6</i>			
Phenanthrene	0.007	0.001	mg/L	0.0100		73.4	25.6-128	2.76	5.04	
Pyrene	0.008	0.001	mg/L	0.0100		75.4	19.1-137	2.82	7.75	
<i>Surrogate: Terphenyl-d4</i>	<i>0.0353</i>		mg/L	<i>0.0500</i>		<i>70.7</i>	<i>14.7-112</i>			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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

Project: Rule 411
Project Name / Number: Tompkins 411 Workover
Project Manager: Bruce Smith

Reported:
03/22/22 11:37

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.
- 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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