

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

30 April 2020

Trevor Downing Wright Water Engineering 1666 N Main Ave Suite C Durango, CO 81301 RE: DJR

Enclosed are the results of analyses for samples received by the laboratory on 04/19/20 12:05. If you need any further assistance, please feel free to contact me.

Sincerely,

Deblie Zufett

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.

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Wright Water Engineering	Project: DJR	
1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received Notes
WSW1	2004126-01	Water	04/19/20 09:20	04/19/20 12:05

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Wright Water Engineering Project: DJR	
1666 N Main Ave Suite CProject Name / Number: [none]Reported	1:
Durango CO, 81301Project Manager: Trevor Downing04/30/20 1	5:15

### WSW1

		200412	6-01 (Grou	ind Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	178	10.0		mg/L	1	04/20/20 14:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	1	04/20/20 14:00	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	1	04/20/20 14:00	2320 B		VJW
Alkalinity, Total as CaCO3*	178	10.0	7.16	mg/L	1	04/20/20 14:00	2320 B		VJW
Chloride*	1050	200	17.7	mg/L	200	04/29/20 16:50	EPA300.0		AES
Conductivity*	15400	10.0		umho/cm@ 25.0°C	1	04/21/20 08:30	2510 B		VJW
Fluoride*	<20.0	20.0	1.94	mg/L	200	04/29/20 16:50	EPA300.0		AES
pH*	7.47			pH Units	1	04/21/20 08:30	EPA150.1		VJW
Phosphorus, Total	< 0.0500	0.0500	0.00904	mg P/L	1	04/22/20 10:37	EPA365.1		LLG
SAR	69.2			No Unit	1	04/29/20 15:05	Calculation		AES
Total Dissolved Solids*	12100	20.0		mg/L	2	04/23/20 11:42	EPA160.1		VJW
Specific Gravity	1.010	0.8000		No Unit	1	04/21/20 10:45	ASTM D1429-03		VJW
Sulfate*	7170	200	30.5	mg/L	200	04/29/20 16:50	EPA300.0		AES
Total Recoverable Metals by ICP (E20	0.7)								
Calcium*	188	2.00	0.531	mg/L	20	04/29/20 15:05	EPA200.7		AES
Hardness as CaCO3	507	13.2	5.71	mg/L	20	04/29/20 15:05	2340 B		AES
Iron*	1.15	1.00	0.683	mg/L	20	04/29/20 15:05	EPA200.7		AES
Magnesium*	9.23	2.00	1.07	mg/L	20	04/29/20 15:05	EPA200.7		AES
Sodium*	3580	20.0	3.48	mg/L	20	04/29/20 15:05	EPA200.7		AES
Dissolved Metals by ICP									
Aluminum*	<1.00	1.00	0.247	mg/L	20	04/24/20 14:52	EPA200.7		AES
Boron	< 6.00	6.00	2.76	mg/L	20	04/24/20 14:52	EPA200.7		AES
Calcium*	169	2.00	0.332	mg/L	20	04/24/20 14:52	EPA200.7		AES
Iron*	<1.00	1.00	0.368	mg/L	20	04/24/20 14:52	EPA200.7		AES
Magnesium*	9.00	2.00	0.470	mg/L	20	04/24/20 14:52	EPA200.7		AES
Potassium*	21.7	20.0	2.60	mg/L	20	04/24/20 14:52	EPA200.7		AES
Silica (Si02)	39.0	21.4	0.708	mg/L	20	04/24/20 14:52	Calculation		AES
Silicon	18.2	10.0	0.331	mg/L	20	04/24/20 14:52	EPA200.7		AES
Sodium*	3410	20.0	2.01	mg/L	20	04/24/20 14:52	EPA200.7		AES
Strontium*	7.20	2.00	0.083	mg/L	20	04/24/20 14:52	EPA200.7		AES

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1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### WSW1

		2004126	5-01 (Grou	nd Water)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Dissolved Metals by ICPMS									
Arsenic*	< 0.0100	0.0100	0.0022	mg/L	20	04/27/20 13:58	EPA200.8		AES
Barium*	0.0346	0.0100	0.0015	mg/L	20	04/27/20 13:58	EPA200.8		AES
Cadmium*	< 0.0020	0.0020	0.0015	mg/L	20	04/27/20 13:58	EPA200.8		AES
Chromium*	< 0.0200	0.0200	0.0036	mg/L	20	04/27/20 13:58	EPA200.8		AES
Copper*	0.0131	0.0100	0.0044	mg/L	20	04/27/20 13:58	EPA200.8		AES
Lead*	< 0.0100	0.0100	0.0023	mg/L	20	04/27/20 13:58	EPA200.8		AES
Manganese*	0.0848	0.0100	0.0022	mg/L	20	04/27/20 13:58	EPA200.8		AES
Molybdenum*	< 0.0100	0.0100	0.0023	mg/L	20	04/27/20 13:58	EPA200.8		AES
Nickel*	< 0.0100	0.0100	0.0053	mg/L	20	04/27/20 13:58	EPA200.8		AES
Selenium*	< 0.0200	0.0200	0.0106	mg/L	20	04/27/20 13:58	EPA200.8		AES
Zinc*	<0.0400	0.0400	0.0064	mg/L	20	04/27/20 13:58	EPA200.8		AES
Other									
Iron-Related Bacteria	Low			CFU/mL	1	04/29/20 16:30	Lab Procedure		DJZ
	Aggressivity								
Slime-Forming Bacteria	Low			CFU/mL	1	04/29/20 16:30	Lab Procedure		DJZ
	Aggressivity			CFU/mL	1	04/29/20 16:30	Lab Procedure		DJZ
Sulfate-Reducing Bacteria	Low Aggressivity			CFU/mL	1	04/29/20 10:30	Lad Procedure		DJZ

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1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### **General Chemistry - Quality Control**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B200643 - General Prep - Wet Chem										
Blank (B200643-BLK1)			Prepa	red & Ana	lyzed: 04/20	0/20				
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B200643-BS1)			Prepa	red & Ana	lyzed: 04/20	0/20				
Alkalinity, Total as CaCO3	97.0	10.0	mg/L	100		97.0	85-115			
LCS Dup (B200643-BSD1)			Prepa	red & Ana	lyzed: 04/20	0/20				
Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115	3.05	20	
Batch B200646 - General Prep - Wet Chem										
Duplicate (B200646-DUP1)	Sou	rce: 2004126-	01 Prepa	red: 04/20/	20 Analyz	ed: 04/21/2	20			
Specific Gravity	1.010	0.8000	No Unit		1.010			0.00	20	
Batch B200649 - General Prep - Wet Chem										
Blank (B200649-BLK1)			Prepa	red: 04/21	20 Analyz	ed: 04/22/2	20			
Phosphorus, Total	ND	0.0500	mg P/L							
LCS (B200649-BS1)			Prepa	red: 04/21	20 Analyz	ed: 04/22/2	20			
Phosphorus, Total	2.67	0.0500	mg P/L	2.50		107	90-110			
LCS Dup (B200649-BSD1)			Prepa	red: 04/21/	20 Analyz	ed: 04/22/2	20			
Phosphorus, Total	2.69	0.0500	mg P/L	2.50		108	90-110	0.728	20	
Batch B200655 - General Prep - Wet Chem										
Duplicate (B200655-DUP1)	Sou	rce: 2004126-	01 Prepa	red & Ana	lyzed: 04/2	1/20				
Conductivity	15600	10.0	umho/cm @ 25.0°C		15400			0.903	20	
Reference (B200655-SRM1)				red & Ana	lyzed: 04/2	1/20				
Conductivity	511	10.0	umho/cm @	491	<u>,</u>	104	90-110.1			
Batch B200656 - General Prep - Wet Chem			25.0°C							
Duplicate (B200656-DUP1)	Sou	rce: 2004126-	01 Preng	red & Ana	lyzed: 04/2	1/20				
pH	7.52	100-120-	pH Units	ited & Alla	7.47	1/20		0.667	20	
Reference (B200656-SRM1)			•	red & Ana	lyzed: 04/2	1/20				
pH	7.02		pH Units	7.00	-,200.012	100	98.5-101.4			
Batch B200679 - General Prep - Wet Chem										
			Prena	red & Ana	lyzed: 04/23	3/20				
Total Dissolved Solids	ND	10.0	mg/L		<u>,</u>					
Duplicate (B200679-DUP1)	Sou	rce: 2004124-	-	red & Ana	lyzed: 04/23	3/20				
Total Dissolved Solids	8850	20.0	mg/L		8920	-		0.788	20	
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### General Chemistry - Quality Control (Continued)

		(	Continu	cu)						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B200679 - General Prep - Wet	Chem (Continued)									
Reference (B200679-SRM1)			Prep	ared & Anal	lyzed: 04/23	3/20				
Total Dissolved Solids	540	10.0	mg/L	570		94.7	85-115			
Batch B200702 - General Prep - Wet	Chem									
Blank (B200702-BLK1)			Prep	ared: 04/28/	20 Analyze	ed: 04/30/2	0			
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B200702-BS1)			Prep	ared: 04/28/	20 Analyze	ed: 04/29/2	0			
Chloride	23.4	1.00	mg/L	25.0		93.5	90-110			
Fluoride	2.42	0.100	mg/L	2.50		96.8	90-110			
Sulfate	23.4	1.00	mg/L	25.0		93.7	90-110			
LCS Dup (B200702-BSD1)			Prep	ared: 04/28/	20 Analyze	ed: 04/29/2	0			
Chloride	24.1	1.00	mg/L	25.0		96.6	90-110	3.24	20	
Fluoride	2.51	0.100	mg/L	2.50		100	90-110	3.73	20	
Sulfate	24.4	1.00	mg/L	25.0		97.5	90-110	3.96	20	

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1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### Total Recoverable Metals by ICP (E200.7) - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B200698 - Total Rec. 200.7/20	0.8/200.2									
Blank (B200698-BLK1)			Prep	ared: 04/28/	20 Analyze	ed: 04/29/20	)			
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B200698-BS1)			Prep	ared: 04/28/	20 Analyze	ed: 04/29/20	)			
Calcium	4.04	0.100	mg/L	4.00		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.5	85-115			
Magnesium	20.8	0.100	mg/L	20.0		104	85-115			
Sodium	3.22	1.00	mg/L	3.24		99.3	85-115			
LCS Dup (B200698-BSD1)			Prep	ared: 04/28/	20 Analyze	ed: 04/29/20	)			
Calcium	3.96	0.100	mg/L	4.00		99.0	85-115	1.97	20	
Iron	3.83	0.050	mg/L	4.00		95.8	85-115	2.70	20	
Magnesium	20.5	0.100	mg/L	20.0		102	85-115	1.59	20	
Sodium	3.19	1.00	mg/L	3.24		98.6	85-115	0.714	20	

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1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### **Dissolved Metals by ICP - Quality Control**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B200630 - Diss. 200.7/200.8										
Blank (B200630-BLK1)			Prep	ared: 04/17/	20 Analyz	ed: 04/24/2	0			
Aluminum	ND	0.050	mg/L							
Boron	ND	0.300	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							
LCS (B200630-BS1)			Prep	oared: 04/17/	20 Analyz	ed: 04/24/2	0			
Aluminum	4.83	0.050	mg/L	5.00		96.6	85-115			
Boron	4.84	0.300	mg/L	5.00		96.8	85-115			
Calcium	4.77	0.100	mg/L	5.00		95.4	85-115			
Iron	4.55	0.050	mg/L	5.00		91.0	85-115			
Magnesium	24.2	0.100	mg/L	25.0		96.9	85-115			
Potassium	9.63	1.00	mg/L	10.0		96.3	85-115			
Silicon	4.88	0.500	mg/L	5.00		97.6	85-115			
Sodium	4.02	1.00	mg/L	4.05		99.2	85-115			
Strontium	4.74	0.100	mg/L	5.00		94.8	85-115			
LCS Dup (B200630-BSD1)			Prep	oared: 04/17/	20 Analyz	ed: 04/24/2	0			
Aluminum	4.84	0.050	mg/L	5.00		96.8	85-115	0.207	20	
Boron	4.90	0.300	mg/L	5.00		97.9	85-115	1.15	20	
Calcium	4.77	0.100	mg/L	5.00		95.4	85-115	0.0238	20	
Iron	4.56	0.050	mg/L	5.00		91.2	85-115	0.241	20	
Magnesium	24.3	0.100	mg/L	25.0		97.1	85-115	0.244	20	
Potassium	9.76	1.00	mg/L	10.0		97.6	85-115	1.30	20	
Silicon	4.88	0.500	mg/L	5.00		97.7	85-115	0.104	20	
Sodium	4.04	1.00	mg/L	4.05		99.7	85-115	0.544	20	
Strontium	4.80	0.100	mg/L	5.00		95.9	85-115	1.11	20	

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1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### **Dissolved Metals by ICPMS - Quality Control**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B200685 - Diss. 200.7/200.8										
Blank (B200685-BLK1)			Prep	ared: 04/24/	20 Analyz	ed: 04/27/20	)			
Arsenic	ND	0.0005	mg/L							
Barium	ND	0.0005	mg/L							
Cadmium	ND	0.0001	mg/L							
Chromium	ND	0.0010	mg/L							
Copper	ND	0.0005	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Nickel	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Zinc	ND	0.0020	mg/L							
LCS (B200685-BS1)			Prep	ared: 04/24/	20 Analyz	ed: 04/27/20	)			
Arsenic	0.0504	0.0005	mg/L	0.0500		101	85-115			
Barium	0.0513	0.0005	mg/L	0.0500		103	85-115			
Cadmium	0.0525	0.0001	mg/L	0.0500		105	85-115			
Chromium	0.0507	0.0010	mg/L	0.0500		101	85-115			
Copper	0.0533	0.0005	mg/L	0.0500		107	85-115			
Lead	0.0540	0.0005	mg/L	0.0500		108	85-115			
Manganese	0.0534	0.0005	mg/L	0.0500		107	85-115			
Molybdenum	0.0529	0.0005	mg/L	0.0500		106	85-115			
Nickel	0.0512	0.0005	mg/L	0.0500		102	85-115			
Selenium	0.261	0.0010	mg/L	0.250		104	85-115			
Zinc	0.0517	0.0020	mg/L	0.0500		103	85-115			
LCS Dup (B200685-BSD1)			Prep	ared: 04/24/	20 Analyz	ed: 04/27/20	)			
Arsenic	0.0490	0.0005	mg/L	0.0500		98.1	85-115	2.66	20	
Barium	0.0518	0.0005	mg/L	0.0500		104	85-115	0.878	20	
Cadmium	0.0521	0.0001	mg/L	0.0500		104	85-115	0.876	20	
Chromium	0.0522	0.0010	mg/L	0.0500		104	85-115	2.88	20	
Copper	0.0531	0.0005	mg/L	0.0500		106	85-115	0.473	20	
Lead	0.0549	0.0005	mg/L	0.0500		110	85-115	1.79	20	
Manganese	0.0535	0.0005	mg/L	0.0500		107	85-115	0.196	20	
Molybdenum	0.0520	0.0005	mg/L	0.0500		104	85-115	1.90	20	
Nickel	0.0522	0.0005	mg/L	0.0500		104	85-115	1.95	20	
Selenium	0.254	0.0010	mg/L	0.250		102	85-115	2.65	20	
Zinc	0.0531	0.0020	mg/L	0.0500		106	85-115	2.64	20	

Green Analytical Laboratories

lie Zufett

Debbie Zufelt, Reports Manager Released to Imaging: 7/18/2024 1:10:40 PM The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

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Laboratories		www.GreenAnalytical.com
Wright Water Engineering	Project: DJR	
1666 N Main Ave Suite C	Project Name / Number: [none]	Reported:
Durango CO, 81301	Project Manager: Trevor Downing	04/30/20 16:15

### **Notes and Definitions**

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

Green Analytical Laboratories

blie Zufett

Debbie Zufelt, Reports Manager Released to Imaging: 7/18/2024 1:10:40 PM The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

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# **Project Information**

Wright Water Engineering

1666 N Main Ave Suite CDurango, CO 81301Laboratory PM:Debbie Zufelt

Project Name:	DJR	
<b>Project Number:</b>	DJR	
Client PM:	Trevor Downing	
Comments:		
Analysis	Comment	

Alkalinity, Bicarbonate Alkalinity, Carbonate Alkalinity, Hydroxide Alkalinity, Total Aluminum Dissolved by ICP Arsenic Dissolved by ICPMS Bacteria - IRB Bacteria - SLYM Bacteria - SRB Barium Dissolved by ICPMS Boron Dissolved by ICP Cadmium Dissolved by ICPMS Calcium Dissolved by ICP Chloride by IC Chromium Dissolved by ICPMS Conductivity Copper Dissolved by ICPMS Fluoride by IC Hardness, 200.2 Metals Iron 200.2 by ICP Iron Dissolved by ICP Lead Dissolved by ICPMS Magnesium Dissolved by ICP Manganese Dissolved by ICPMS Molybdenum Dissolved by ICPM Nickel Dissolved by ICPMS pH Phosphate as P, Total by Lachat Potassium Dissolved by ICP SAR Suite - Total Recoverable Selenium Dissolved by ICPMS Silica Dissolved by ICP Package Sodium 200.2 by ICP Sodium Dissolved by ICP Solids, Total Dissolved (TDS) Specific Gravity

Phone:(970) 259-7411 Fax:- 4/20/2020

# **Project Information**

Phone:(970) 259-7411

Fax:-

*** * * *	XX7 4		•
Wright	Water	Engin	eering

1666 N Main Ave Suite C Durango, CO 81301 Laboratory PM: Debbie Zufelt

Project Name:DJRProject Number:DJRClient PM:Trevor DowningComments:Comments:

Comment

Strontium Dissolved by ICP Sulfate by IC Zinc Dissolved by ICPMS

Analysis

### Hardness, 200.2 Metals subanalyses:

Calcium 200.2 by ICP Magnesium 200.2 by ICP

### SAR Suite - Total Recoverable subanalyses: SAR

## Silica Dissolved by ICP Package subanalyses:

Silicon Dissolved by ICP

4/20/2020

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### Laboratory Sample ID: 2004-126

Start Date: 04/19/20

Sample Name: WSW1

Released to Imaging: 7/18/202

12	0		•		•	•					
1											
APB	Time Lag (days)	1	2	3	4	5	6	7	8	9	10
wurple	Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Acid Producing Bacteria )	Reaction Code										
M											

IRB		04/20	04/21	04/22	04/23	04/24	04/25	04/26	04/27	04/28	04/29
Red	Time Lag (days)	1	2	3	4	5	6	7	8	9	10
(Iron Related Bacteria)	Approx. Population	570,000	140,000	35,000	9000	2200	500	150	25	8	< 1
	Reaction Code	А	А	А	А	А	А	А	А	А	А

SLYM		04/20	04/21	04/22	04/23	04/24	04/25	04/26	04/27	04/28	04/29
Green	Time Lag (days)	1	2	3	4	5	6	7	8	9	10
(Slime Forming Bacteria)	Approx. Population	1,750,000	440,000	67,000	13,000	2500	500	100	< 20	n/a	n/a
	Reaction Code	А	А	А	А	А	А	А	А	А	А

SRB		04/20	04/21	04/22	04/23	04/24	04/25	04/26	04/27	04/28	04/29
Black	Time Lag (days)	1	2	3	4	5	6	7	8	9	10
(Sulfate Reducing Ba cteria)	Approx. Population	2,200,000	500,000	115,000	27,000	6,000	1400	325	75	20	< 5
	Reaction Code	А	А	А	А	А	А	А	А	А	А

	Aggressivity:	High	Medium	Low			
<b>Reaction Code Summary</b>	: APB	ABSENT = A			IRB	SLYM	SRB
	Purple				FO - Foam	DS - Dense Slime	BB - Black Base
					BR - Brown Ring	SR - Slime Ring	BT - Black Ball/Top
					BG - Brown Gel	CL - Cloudy	BT/BB - Black Top & Base
					BC - Brown Clouds	CP -Cloudy Layered Plates	Cloudy
					GC - Green Cloudy	PB - Pale Blue Glowing	
					RC - Red Cloudy	BL - Blackened Liquid	*n/a - Not Aggressive
					CL - Cloudy	TH - Thread Like Strands	
					BL - Black		

Pogradient Background Chloride = Non-Detect

Alamito Line Release - Source Chloride = 111 ppm

Release Midpoint Chloride = 65.6 ppm

Release terminus Chloride = 129 ppm Terminus + 10 Chloride = Non-Detect

Released to Imaging: 1/18/2024 1-10:40 PM

Received by OCD: 7/18/2024 1:08:29 PM

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# Enduring Resources, LLC

Project Name:

Alamita Line Release

Work Order: E405155

Job Number: 17065-0017

Received: 5/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/13/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/13/24

Jeff Blagg 6300 S Syracuse Way Suite 525 Centennial, CO 80111

Project Name: Alamita Line Release Workorder: E405155 Date Received: 5/10/2024 1:51:00PM

Jeff Blagg,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/10/2024 1:51:00PM, under the Project Name: Alamita Line Release.

The analytical test results summarized in this report with the Project Name: Alamita Line Release apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Terminus Grab

Mid Point Grab

Terminus + 10' Grab

Upgradient Background Grab

	Sample Summary							
Enduring Resources, LLC 6300 S Syracuse Way Suite 525		Project Name: Project Number:	Alamita Line Relea 17065-0017	ise	Reported:			
Centennial CO, 80111		Project Manager:	Jeff Blagg		05/13/24 13:56			
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container			
Source Grab	E405155-01A	Solid	05/10/24	05/10/24	Glass Jar, 2 oz.			

Solid

Solid

Solid

Solid

E405155-02A

E405155-03A

E405155-04A

E405155-05A

05/10/24

05/10/24

05/10/24

05/10/24

05/10/24

05/10/24

05/10/24

05/10/24

Glass Jar, 2 oz.

Glass Jar, 2 oz.

Glass Jar, 2 oz.

Glass Jar, 2 oz.



envirotech Inc.

Page 19 of 29

	San	ipie Da	a					
Enduring Resources, LLC	Project Name:	Alamit	a Line Release					
6300 S Syracuse Way Suite 525	Project Number:	Project Number: 17065-0		17065-0017				
Centennial CO, 80111 Project Manager: Jeff Blagg					5/13/2024 1:56:38PM			
	Sou	rce Grab						
	E40	)5155-01						
		Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: IY		Batch: 2419163		
Chloride	111	20.0	1	05/10/24	05/10/24			

# Sample Data



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# Sample Data

	Sam	ipic Da	la			
Enduring Resources, LLC	Project Name:	Alamit	a Line Release			
6300 S Syracuse Way Suite 525	Project Number:	17065-	0017	Reported:		
Centennial CO, 80111	Project Manager:	Jeff Bl	agg			5/13/2024 1:56:38PM
	Termi	inus Grab				
	E40	5155-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	IY		Batch: 2419163
Chloride	129	20.0	1	05/10/24	05/10/24	



.

**Released to Imaging:** 7/18/2024 1:10:40 PM

# Sample Data

envirotech Inc.

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Enduring Resources, LLCProject Name:Alamita Line Release6300 S Syracuse Way Suite 525Project Number:17065-0017		
		Reported:
Centennial CO, 80111 Project Manager: Jeff Blagg		5/13/2024 1:56:38PM
Terminus + 10' Grab		
E405155-03		
Reporting		
Analyte Result Limit Dilution Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: IY		Batch: 2419163
Chloride ND 20.0 1 05/10/24	05/10/24	

Page 7 of 13

## Sample Data

	Sam	pic Da	a			
Enduring Resources, LLC	Project Name:	Alamit	a Line Release			
6300 S Syracuse Way Suite 525	Project Number:	17065-	0017		Reported:	
Centennial CO, 80111	Project Manager:	Jeff Bl	agg			5/13/2024 1:56:38PM
	Mid Po	oint Grab				
	E40:	5155-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	IY		Batch: 2419163
Chloride	65.6	20.0	1	05/10/24	05/10/24	



.

Anions by EPA 300.0/9056A

Chloride

Sample Data									
Enduring Resources, LLC	Project Name:	Alamita	a Line Release						
6300 S Syracuse Way Suite 525	Project Number:	17065-0	0017			Reported	1:		
Centennial CO, 80111	Project Manager:	Jeff Bla	ıgg			5/13/2024 1:56	5:38PM		
Upgradient Background Grab									
	E405	155-05							
		Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes			

mg/kg

20.0

Analyst: IY

1

05/10/24

05/10/24

mg/kg

ND

Page 24 of 29

Batch: 2419163

# QC Summary Data

				J					
Enduring Resources, LLC 6300 S Syracuse Way Suite 525 Centennial CO, 80111		Project Name: Project Number: Project Manager:	1	Alamita Line R 7065-0017 eff Blagg	elease				<b>Reported:</b> 5/13/2024 1:56:38PM
		Anions l	by EPA	<b>300.0/9056</b> A	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419163-BLK1)							Prepared: 0	5/10/24 A	Analyzed: 05/10/24
Chloride	ND	20.0							
LCS (2419163-BS1)							Prepared: 0	5/10/24 A	Analyzed: 05/10/24
Chloride	249	20.0	250		99.6	90-110			
LCS Dup (2419163-BSD1)							Prepared: 0	5/10/24 A	analyzed: 05/10/24
Chloride	254	20.0	250		102	90-110	1.93	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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	Enduring Resources, LLC	Project Name:	Alamita Line Release	
	6300 S Syracuse Way Suite 525	Project Number:	17065-0017	Reported:
	Centennial CO, 80111	Project Manager:	Jeff Blagg	05/13/24 13:56

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

### **Chain of Custody**

	Client Information						Invoice Information				Lab Use Only								TA	т		Stat	e
Client:	ENDURIN	G Re	SOURC	ES	_	Company: ENDURING			Lab	405/55 Job Number 405/55 17065-00/7 ×													
Project N	ame: ALAI	MITA	2120	E RELEA	≦E	Address:			E4	105	515	5	170	65	- 00		X				×		
	lanager: J.	- BLA	66		-	City, State	e, Zip:		_	_ [	<u>`</u>												1. a. 21. a.
Address:	. 7!				-	Phone:				-1				Ana	lysis	and	Meth	ođ				EPA Progr	
City, Stat	505-32	0-110	22		-	Email:				_									- 1		SDW	A CWA	RCRA
Fmail:	Teff B	LAGG	23		-		TO PRUJE	- NAM	5						- 1						Comol		
						0.00	10 1 100 20		<u>.</u>		801	801			。			<u>_</u>	2		Compl		or N
				Samp	le Infor	mation					ې و	δ Ω	8021	8260	8	N	ŝ	Meta	noi P			/*	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample	ID		Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by \$015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remark	s
0938	5/10/2024	SOIL	1	Sou	RCE	GRAB				1					X								
1001				TERM	NNUS	GRAB				2					}								
1004				TERM	NINUS	+ 10'	GRAB			3													
1016		$\square$		MIZ	Poi	NT GI	RAB			4					$\prod$								
1024			Ľ	UPG	RADU	ENT BAC	KGROWD	GRAB		5					1								
Addition	al Instructio	ns:																					
I, (field sam; Sampled by	oler), attest to the	e validity and	authentici	ty of this sample	. I am awar	e that tampering	with or intentional	y mislabeling th	e samp	le location,	date or	time of	collect	tion is a	conside	red fr	aud and	i may	be gro	unds for le	gal action.		
Relinquish	ed by: (Signatur Sizsg	re)	0a 5/		135		d by: (Signature)		-	0/24	_	35	_			Sample	is requir	ing the	rmal p	eservation	must be rec	cived on ice the d ove 0 but less tha	
Felinquished by: (Signature) Date Time						Baceive	d by: (Signature)		Date		Time			1		Rece	eived	on ic	:e: (	Lab YV	Use Onl N	y	
Relinquished by: (Signature) Date Time					Time	Received by: (Signature) Date			Time						T2 T3								
Relinquished by: (Signature) Date Time						Receive	ed by: (Signature)		Date		Time			AVG Ter		Tem	emp°c 4						
	rix: S - Soil, Sd - S									tainer Typ					lastic,	ag -	ambe	r gla:					
Note: Sam							ents are made. Ha ity of the laborato								of at th	e clie	nt exp	ense.	The r	eport for	the analy	sis of the abo	ve samples

# **Envirotech Analytical Laboratory**

### Sample Receipt Checklist (SRC)

Client:	Enduring Resources, LLC Da	ate Received:	05/10/24	13:51	Work Order ID:	E405155		
Phone:	(505) 320-1183 Da	ate Logged In:	05/10/24	13:59	Logged In By:	Angelina Pineda		
Email:		ue Date:		17:00 (1 day TAT)		Angenna r meda		
Chain o	f Custody (COC)							
	the sample ID match the COC?		Yes					
	the number of samples per sampling site location match	the COC	Yes					
	samples dropped off by client or carrier?		Yes	Carrier: Jeff Blagg				
	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes	Carrier. Join Diagg				
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution		
Sample	Turn Around Time (TAT)							
	ne COC indicate standard TAT, or Expedited TAT?		Yes					
Sample								
	sample cooler received?		Yes					
8. If yes,	, was cooler received in good condition?		Yes					
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes					
10. Were	e custody/security seals present?		No					
	s, were custody/security seals intact?		NA					
•	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-		Yes					
12.10	minutes of sampling		0					
	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>					
5.08	<u>Container</u>							
	aqueous VOC samples present?		No					
	VOC samples collected in VOA Vials?		NA NA					
	e head space less than 6-8 mm (pea sized or less)?		NA					
	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?							
	e appropriate volume/weight or number of sample containers?	a allaatad?	Yes					
		conected?	Yes					
Field La	abel_ e field sample labels filled out with the minimum inform	ation						
	Sample ID?	anon	Yes					
	Date/Time Collected?		Yes					
(	Collectors name?		Yes					
GL 17.1	Preservation							
	s the COC or field labels indicate the samples were prese	erved?	No					
	sample(s) correctly preserved?		NA					
24. Is lal	b filteration required and/or requested for dissolved meta	uls?	No					
	ase Sample Matrix							
	s the sample have more than one phase, i.e., multiphase?		No					
27. If ye	s, does the COC specify which phase(s) is to be analyzed	d?	NA					
2	tract Laboratory							
	samples required to get sent to a subcontract laboratory?		No					
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA				
Client l	Instruction							

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:					
ENDURING RESOURCES, LLC	372286					
6300 S Syracuse Way	Action Number:					
Centennial, CO 80111	365347					
	Action Type:					
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)					

#### CONDITIONS

Created By		Condition Date
nvelez	None	7/18/2024

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Action 365347