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[www.greenanalytical.com](http://www.greenanalytical.com)

28 August 2020

Michael Hannigan  
Kinder Morgan  
17801 Hwy 491  
Cortez, CO 81321  
RE: EC/pH/SAR

Enclosed are the results of analyses for samples received by the laboratory on 08/26/20 14:45.  
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 For 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.

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.



Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: EC/pH/SAR  
Project Name / Number: Drilling Pit Soil Samples YE-6 Surface  
Project Manager: Michael Hannigan

**Reported:**  
08/28/20 16:39

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
YE-6-SB-1	2008317-01	Solid	08/25/20 11:15	08/26/20 14:45	
YE-6-SB-3	2008317-02	Solid	08/25/20 11:20	08/26/20 14:45	
YE-6-SB-7	2008317-03	Solid	08/25/20 11:25	08/26/20 14:45	
YE-6-SB-8	2008317-04	Solid	08/25/20 11:30	08/26/20 14:45	

Green Analytical Laboratories

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Project Manager: Michael Hannigan

Reported:  
08/28/20 16:39

**YE-6-SB-1****2008317-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Calcium	407	0.200	0.033	mg/L	2	08/28/20 13:34	EPA200.7		AES
Conductivity	1940			umho/cm @ 25.0°C	1	08/28/20 11:15	ASA#9 10-3.3		VJW
Magnesium	97.1	0.200	0.047	mg/L	2	08/28/20 13:34	EPA200.7		AES
pH	7.46			pH Units	1	08/28/20 07:49	ASA#9 10-3.2		VJW
SAR	0.29			No Unit	1	08/28/20 13:34	Calculation		AES
Sodium	24.7	2.00	0.201	mg/L	2	08/28/20 13:34	EPA200.7		AES

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Project: EC/pH/SAR  
Project Name / Number: Drilling Pit Soil Samples YE-6 Surface  
Project Manager: Michael Hannigan

Reported:  
08/28/20 16:39

**YE-6-SB-3****2008317-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Calcium	388	0.200	0.033	mg/L	2	08/28/20 13:42	EPA200.7		AES
Conductivity	1990			umho/cm @ 25.0°C	1	08/28/20 11:15	ASA#9 10-3.3		VJW
Magnesium	111	0.200	0.047	mg/L	2	08/28/20 13:42	EPA200.7		AES
pH	7.55			pH Units	1	08/28/20 07:49	ASA#9 10-3.2		VJW
SAR	0.25			No Unit	1	08/28/20 13:42	Calculation		AES
Sodium	21.5	2.00	0.201	mg/L	2	08/28/20 13:42	EPA200.7		AES

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Project: EC/pH/SAR  
Project Name / Number: Drilling Pit Soil Samples YE-6 Surface  
Project Manager: Michael Hannigan

Reported:  
08/28/20 16:39

**YE-6-SB-7****2008317-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Calcium	90.5	0.100	0.017	mg/L	1	08/28/20 13:49	EPA200.7		AES
Conductivity	642			umho/cm @ 25.0°C	1	08/28/20 11:15	ASA#9 10-3.3		VJW
Magnesium	27.6	0.100	0.023	mg/L	1	08/28/20 13:49	EPA200.7		AES
pH	7.61			pH Units	1	08/28/20 07:49	ASA#9 10-3.2		VJW
SAR	0.25			No Unit	1	08/28/20 13:49	Calculation		AES
Sodium	10.4	1.00	0.101	mg/L	1	08/28/20 13:49	EPA200.7		AES

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Project Manager: Michael Hannigan

Reported:  
08/28/20 16:39

**YE-6-SB-8****2008317-04 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Calcium	147	0.200	0.033	mg/L	2	08/28/20 13:53	EPA200.7		AES
Conductivity	1020			umho/cm @ 25.0°C	1	08/28/20 11:15	ASA#9 10-3.3		VJW
Magnesium	51.3	0.200	0.047	mg/L	2	08/28/20 13:53	EPA200.7		AES
pH	7.61			pH Units	1	08/28/20 07:49	ASA#9 10-3.2		VJW
SAR	0.35			No Unit	1	08/28/20 13:53	Calculation		AES
Sodium	19.4	2.00	0.201	mg/L	2	08/28/20 13:53	EPA200.7		AES

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Project: EC/pH/SAR  
Project Name / Number: Drilling Pit Soil Samples YE-6 Surface  
Project Manager: Michael Hannigan

Reported:  
08/28/20 16:39

### Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B201717 - Paste Extract

Duplicate (B201717-DUP1) Source: 2008317-01 Prepared: 08/27/20 Analyzed: 08/28/20

pH	7.54		pH Units		7.46			1.07	20	
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Duplicate (B201717-DUP2) Source: 2008320-05 Prepared: 08/27/20 Analyzed: 08/28/20

pH	7.54		pH Units		7.54			0.00	20	
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Duplicate (B201717-DUP3) Source: 2008326-02 Prepared: 08/27/20 Analyzed: 08/28/20

pH	9.18		pH Units		9.14			0.437	20	
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Reference (B201717-SRM1) Prepared: 08/27/20 Analyzed: 08/28/20

pH	7.19		pH Units	6.98		103	95-105			
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Reference (B201717-SRM2) Prepared: 08/27/20 Analyzed: 08/28/20

pH	7.20		pH Units	6.98		103	95-105			
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#### Batch B201718 - Paste Extract

Duplicate (B201718-DUP1) Source: 2008317-01 Prepared: 08/27/20 Analyzed: 08/28/20

Conductivity	1910		umho/cm @ 25.0°C		1940			1.19	20	
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Duplicate (B201718-DUP2) Source: 2008320-05 Prepared: 08/27/20 Analyzed: 08/28/20

Conductivity	882		umho/cm @ 25.0°C		821			7.16	20	
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Duplicate (B201718-DUP3) Source: 2008326-02 Prepared: 08/27/20 Analyzed: 08/28/20

Conductivity	2180		umho/cm @ 25.0°C		2300			5.36	20	
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Reference (B201718-SRM1) Prepared: 08/27/20 Analyzed: 08/28/20

Conductivity	2990		umho/cm @ 25.0°C	2930		102	90-110			
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Reference (B201718-SRM2) Prepared: 08/27/20 Analyzed: 08/28/20

Conductivity	2690		umho/cm @ 25.0°C	2930		91.8	90-110			
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#### Batch B201719 - Paste Extract

Blank (B201719-BLK1) Prepared: 08/27/20 Analyzed: 08/28/20

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

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08/28/20 16:39

**Saturated Paste Extraction - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B201719 - Paste Extract (Continued)**

**Duplicate (B201719-DUP1)** Source: 2008317-01 Prepared: 08/27/20 Analyzed: 08/28/20

Calcium	396	0.200	mg/L		407		2.60	20	
Magnesium	94.6	0.200	mg/L		97.1		2.66	20	
SAR	0.28		No Unit		0.29		3.51	20	
Sodium	24.1	2.00	mg/L		24.7		2.24	20	

**Duplicate (B201719-DUP2)** Source: 2008320-05 Prepared: 08/27/20 Analyzed: 08/28/20

Calcium	136	0.100	mg/L		126		7.88	20	
Magnesium	38.0	0.100	mg/L		34.7		9.09	20	
SAR	0.27		No Unit		0.28		3.64	20	
Sodium	14.0	1.00	mg/L		13.6		3.06	20	

**Duplicate (B201719-DUP3)** Source: 2008326-02 Prepared: 08/27/20 Analyzed: 08/28/20

Calcium	ND	0.100	mg/L		475			20	
Magnesium	ND	0.100	mg/L		18.7			20	
SAR	1.88		No Unit		1.90		1.06	20	
Sodium	ND	1.00	mg/L		155			20	

**Reference (B201719-SRM1)** Prepared: 08/27/20 Analyzed: 08/28/20

SAR	5.63		No Unit	5.79	97.2	90-110			
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**Reference (B201719-SRM2)** Prepared: 08/27/20 Analyzed: 08/28/20

SAR	5.64		No Unit	5.79	97.4	90-110			
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Project Name / Number: Drilling Pit Soil Samples YE-6 Surface  
Project Manager: Michael Hannigan

**Reported:**  
08/28/20 16:39

### 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

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Fax: (970) 247-4227

service@greenanalytical.com or dzuleit@greenanalytical.com  
75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
FORM-006  
COC - Revision 5.0

Company or Client: Kinder Morgan CO2 Company, L.P.  
Address: 17801 U.S. Highway 491  
City: Cortez State: CO Zip: 81321  
Phone #: (970) 882-5532  
Contact Person: Michael Hannigan  
Email Report to: michael\_hannigan@kindermorgan.com  
Project Name(optional): DRUMM PT SOIL SAMPLES YE-6 SURFACE

Bill to (if different):

ANALYSIS REQUEST

Sample Name (Print): Michael Hannigan  
P.O. #:   
Company:   
Attn:   
Address:   
City:   
State: Zip:   
Phone #:   
Email:   
Matrix (check one)   
# of containers

For Lab Use	Sample Name or Location	Collected		Matrix (check one)						# of containers					
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER :	No preservation (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:
2008-317-01	YE-6-SB-1	8/25/20	11:15					X			1				
-02	YE-6-SB-3		11:20					X			1				
-03	YE-6-SB-7		11:25					X			1				
-04	YE-6-SB-8		11:30					X			1				

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.

Relinquished By: Michael Hannigan	Date: 8/24/20	Received By: [Signature]	Time: 11:30
Relinquished By: [Signature]	Date: 8/26/20	Received By: [Signature]	Time: 11:45
Relinquished By: [Signature]	Date: [Blank]	Received By: [Blank]	Time: [Blank]
Relinquished By: [Blank]	Date: [Blank]	Received By: [Blank]	Time: [Blank]

ADDITIONAL REMARKS: RUSH ASAP

Report to State? (Circle) Yes (X) No

Temperature at receipt: 27.1/27.2 C

Checked By: [Signature]

\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

† GAL cannot always accept verbal changes. Please fax or email written change requests.

Just Click Printing Form #17-0301