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05 May 2023

Michael Hannigan
Kinder Morgan
17801 Hwy 491
Cortez, CO 81321
RE: YB Cluster Background Soil

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 11:15. 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: T104704514-23-17

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: T104704398-23-16



Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Background Soil
Project Name / Number: YB Cluster Background Soil
Project Manager: Michael Hannigan

Reported:
05/05/23 11:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
YB-BG-1	2304238-01	Solid	04/17/23 15:05	04/19/23 11:15	
YB-BG-2	2304238-02	Solid	04/17/23 15:10	04/19/23 11:15	

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Jeremy D Allen, Laboratory Director

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Background Soil Project Name / Number: YB Cluster Background Soil Project Manager: Michael Hannigan	Reported: 05/05/23 11:25
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YB-BG-1

2304238-01 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	05/02/23 13:41	3060A/3500-Cr B		CAI
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Saturated Paste Extraction

Calcium	83.1	0.100	0.058	mg/L	1	05/03/23 15:49	EPA200.7		AES
Conductivity	334			umho/cm@25 C	1	05/02/23 10:00	ASA#9 10-3.3		KRW
Magnesium	4.69	0.100	0.065	mg/L	1	05/03/23 15:49	EPA200.7		AES
pH	7.77			pH Units	1	05/02/23 10:00	ASA#9 10-3.2		KRW
SAR	0.04			No Unit	1	05/03/23 15:49	Calculation		AES
Sodium	1.39	1.00	0.079	mg/L	1	05/03/23 15:49	EPA200.7		AES

Total Metals by ICPMS

Arsenic	3.54	1.00	0.158	mg/kg dry	1000	05/02/23 13:24	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	05/02/23 19:57	EPA200.7		AES
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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Background Soil Project Name / Number: YB Cluster Background Soil Project Manager: Michael Hannigan	Reported: 05/05/23 11:25
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YB-BG-2

2304238-02 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	05/02/23 13:41	3060A/3500-Cr B		CAI
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Saturated Paste Extraction

Calcium	108	0.100	0.058	mg/L	1	05/01/23 16:34	EPA200.7		AES
Conductivity	422			umho/cm@25 C	1	05/01/23 09:41	ASA#9 10-3.3		KRW
Magnesium	6.54	0.100	0.065	mg/L	1	05/01/23 16:34	EPA200.7		AES
pH	7.45			pH Units	1	05/01/23 09:42	ASA#9 10-3.2		KRW
SAR	0.05			No Unit	1	05/01/23 16:34	Calculation		AES
Sodium	2.03	1.00	0.079	mg/L	1	05/01/23 16:34	EPA200.7		AES

Total Metals by ICPMS

Arsenic	4.54	1.00	0.158	mg/kg dry	1000	05/02/23 13:26	6020A		AES
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Hot Water Extractable

Boron	0.422	0.300	0.142	mg/L	1	05/02/23 20:02	EPA200.7		AES
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B231040 - General Prep - Wet Chem										
Blank (B231040-BLK1) Prepared: 04/26/23 Analyzed: 05/02/23										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B231040-BS1) Prepared: 04/26/23 Analyzed: 05/02/23										
Hexavalent Chromium	2.22	0.250	mg/kg dry	2.50		88.8	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B231093 - Paste Extract										
Blank (B231093-BLK1) Prepared: 05/01/23 Analyzed: 05/03/23										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Batch B231095 - Paste Extract										
Blank (B231095-BLK1) Prepared & Analyzed: 05/01/23										
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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Total 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 B231082 - EPA 3050M

Blank (B231082-BLK1)

Prepared: 04/28/23 Analyzed: 05/02/23

Arsenic ND 0.100 mg/kg dry

LCS (B231082-BS1)

Prepared: 04/28/23 Analyzed: 05/02/23

Arsenic 4.72 0.100 mg/kg dry 5.00 94.4 80-120

LCS Dup (B231082-BSD1)

Prepared: 04/28/23 Analyzed: 05/02/23

Arsenic 5.13 0.100 mg/kg dry 5.00 103 80-120 8.36 20

Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231097 - General Prep-SOILS

Blank (B231097-BLK1)

Prepared: 05/01/23 Analyzed: 05/02/23

Boron ND 1.20 mg/L

Batch B231099 - General Prep-SOILS

Blank (B231099-BLK1)

Prepared: 05/01/23 Analyzed: 05/02/23

Boron ND 0.300 mg/L

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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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SAMPLE CONDITION RECEIPT FORM

Client Name: Kinder Morgan

Work Order # 2304-237

Courier: Fed Ex UPS USPS Client Kangaroo

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: 4.8°C Correction Factor: 0°C Final Temp: 4.8°C

* Temp should be above freezing to 5°C

238
239
240
241

Date/Initials of person examining contents: VJW 4/19/23
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 checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	WT (S) 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: _____

