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29 May 2020

Michael Hannigan
Kinder Morgan
17801 Hwy 491
Cortez, CO 81321
RE: TPH Ext.

Enclosed are the results of analyses for samples received by the laboratory on 05/21/20 14:30. The data to follow was performed, in whole or in part, by a subcontract laboratory 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'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

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: TPH Ext.
Project Name / Number: Yellow Jacket CPF PWP Spill Remediation
Project Manager: Michael Hannigan

Reported:
05/29/20 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
YJ-CPF-PWP-A3-CS-1	2005152-01	Solid	05/19/20 09:55	05/21/20 14:30	
YJ-CPF-PWP-A3-CS-2	2005152-02	Solid	05/19/20 10:05	05/21/20 14:30	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Reported:
05/29/20 15:54

YJ-CPF-PWP-A3-CS-1

2005152-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	05/28/20 20:34	8015B		MS
DRO >C10-C28*	355	10.0	2.97	mg/kg	1	05/28/20 20:34	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	05/28/20 20:34	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			94.9 %	44.3-144		05/28/20 20:34	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			116 %	42.2-156		05/28/20 20:34	8015B		MS

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Reported:
05/29/20 15:54

YJ-CPF-PWP-A3-CS-2

2005152-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	05/28/20 20:59	8015B		MS
DRO >C10-C28*	2390	10.0	2.97	mg/kg	1	05/28/20 20:59	8015B		MS
EXT DRO >C28-C36	86.4	10.0	2.97	mg/kg	1	05/28/20 20:59	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			100 %	44.3-144		05/28/20 20:59	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			179 %	42.2-156		05/28/20 20:59	8015B		MS

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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 0052807 - General Prep - Organics

Blank (0052807-BLK1)

Prepared & Analyzed: 05/28/20

Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	42.2-156			
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.5	44.3-144			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (0052807-BS1)

Prepared & Analyzed: 05/28/20

Surrogate: 1-Chlorooctadecane	48.7		mg/kg	50.0		97.4	42.2-156			
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.5	44.3-144			
DRO >C10-C28	211	10.0	mg/kg	200		106	80-132			
GRO C6-C10	178	10.0	mg/kg	200		88.9	78.8-127			
Total TPH C6-C28	389	10.0	mg/kg	400		97.2	81.3-128			

LCS Dup (0052807-BSD1)

Prepared & Analyzed: 05/28/20

Surrogate: 1-Chlorooctadecane	48.4		mg/kg	50.0		96.9	42.2-156			
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	44.3-144			
DRO >C10-C28	220	10.0	mg/kg	200		110	80-132	4.33	17.1	
GRO C6-C10	184	10.0	mg/kg	200		92.1	78.8-127	3.53	15.1	
Total TPH C6-C28	405	10.0	mg/kg	400		101	81.3-128	3.97	15	

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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