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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'.

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	

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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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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
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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