

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 06, 2022

Chris Roy

WSP

4600 West 60th Avenue

Arvada, CO 80003

RE: Mustang V41-34-33 XRLNB

Work Order #2112349

Enclosed are the results of analyses for samples received by Summit Scientific on 12/17/21 10:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	2112349-01	Soil	12/15/21 11:06	12/17/21 10:28
SS02	2112349-02	Soil	12/15/21 11:05	12/17/21 10:28
SS03	2112349-03	Soil	12/15/21 11:10	12/17/21 10:28
SS04	2112349-04	Soil	12/15/21 11:15	12/17/21 10:28

Summit Scientific

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.

Summit Scientific

S₂

2112349

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: WSP USA

Project Manager: Chris Roy @ WSP.com

Address: 4600 W 60th Ave

E-Mail:

City/State/Zip: arvada CO 80003

Phone:

Project Name: Mustang V 41-34-33 XR LNB

Sampler Name: Drew BULLING

Project Number: email for PO

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 organic	915 inorganic	Metals							
1	SS01	12/15/21	11:06	2			X			X				X	X							Run metals on sample with highest TPH or on SS02 if all are ND
2	SS02	12/15/21	11:05	2			X			X				X	X							
3	SS03	12/15/21	11:10	2			X			X				X	X							
4	SS04	12/15/21	11:15	2			X			X				X	X							
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: Drew Bulling	Date/Time: 12/17/21 10:28	Received by: [Signature]	Date/Time: 12/17/21 10:28	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Temperature Upon Receipt:	Corrected Temperature 28	HNO3 lot #			
IR gun correction:	IR gun #:				

S₂

Sample Receipt Checklist

S2 Work Order# 2112349

Client: WSP Client Project ID: Mustang V41-34-33 XRL NBShipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)Temp (°C) 0.8

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice.
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

Run metals on sample with highest TPH, or on sample on SS01 if all are ND

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.JB
Custodian Printed Name or Initials12/17/21
Date/Time



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS01
2112349-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/21 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0437	12/20/21	12/21/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/21 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0438	12/20/21	12/21/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		64.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS01
2112349-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/21 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BEL0530	12/23/21	12/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		61.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.0 %	40-150		"	"	"	"	

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS02
2112349-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/21 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0437	12/20/21	12/21/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/21 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0438	12/20/21	12/21/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		82.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS02
2112349-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/21 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BEL0530	12/23/21	12/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		57.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.5 %	40-150		"	"	"	"	

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS03
2112349-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/21 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0437	12/20/21	12/21/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0052	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/21 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	61	50	mg/kg	1	BEL0438	12/20/21	12/21/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		73.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS03
2112349-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/21 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BEL0530	12/23/21	12/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0119	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0298	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0503	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		59.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.2 %	40-150		"	"	"	"	

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS04
2112349-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/21 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0437	12/20/21	12/21/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/21 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0438	12/20/21	12/21/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		57.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

SS04
2112349-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/21 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BEL0530	12/23/21	12/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/21 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		86.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.9 %	40-150		"	"	"	"	

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BEL0437 - EPA 5030 Soil MS

Blank (BEL0437-BLK1)

Prepared & Analyzed: 12/20/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	21-167			

LCS (BEL0437-BS1)

Prepared & Analyzed: 12/20/21

Benzene	0.0626	0.0020	mg/kg	0.0750		83.4	70-130			
Toluene	0.0724	0.0050	"	0.0750		96.5	70-130			
Ethylbenzene	0.0636	0.0050	"	0.0750		84.8	70-130			
m,p-Xylene	0.131	0.010	"	0.150		87.1	70-130			
o-Xylene	0.0671	0.0050	"	0.0750		89.5	70-130			
1,2,4-Trimethylbenzene	0.0681	0.0050	"	0.0750		90.8	70-130			
1,3,5-Trimethylbenzene	0.0684	0.0050	"	0.0750		91.2	70-130			
Naphthalene	0.0720	0.0038	"	0.0750		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0492		"	0.0400		123	23-173			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	20-170			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	21-167			

Matrix Spike (BEL0437-MS1)

Source: 2112299-01

Prepared & Analyzed: 12/20/21

Benzene	0.0599	0.0020	mg/kg	0.0750	ND	79.8	70-130			
Toluene	0.0673	0.0050	"	0.0750	ND	89.8	70-130			
Ethylbenzene	0.0561	0.0050	"	0.0750	ND	74.8	70-130			
m,p-Xylene	0.115	0.010	"	0.150	ND	76.7	70-130			
o-Xylene	0.0603	0.0050	"	0.0750	ND	80.4	70-130			
1,2,4-Trimethylbenzene	0.0608	0.0050	"	0.0750	ND	81.0	70-130			
1,3,5-Trimethylbenzene	0.0594	0.0050	"	0.0750	ND	79.2	70-130			
Naphthalene	0.0721	0.0038	"	0.0750	ND	96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0466		"	0.0400		117	23-173			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	21-167			

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BEL0437 - EPA 5030 Soil MS

Matrix Spike Dup (BEL0437-MSD1)		Source: 2112299-01			Prepared & Analyzed: 12/20/21					
Benzene	0.0640	0.0020	mg/kg	0.0750	ND	85.4	70-130	6.68	30	
Toluene	0.0709	0.0050	"	0.0750	ND	94.6	70-130	5.21	30	
Ethylbenzene	0.0562	0.0050	"	0.0750	ND	74.9	70-130	0.160	30	
m,p-Xylene	0.113	0.010	"	0.150	ND	75.6	70-130	1.42	30	
o-Xylene	0.0596	0.0050	"	0.0750	ND	79.5	70-130	1.10	30	
1,2,4-Trimethylbenzene	0.0615	0.0050	"	0.0750	ND	82.0	70-130	1.18	30	
1,3,5-Trimethylbenzene	0.0594	0.0050	"	0.0750	ND	79.2	70-130	0.101	30	
Naphthalene	0.0739	0.0038	"	0.0750	ND	98.5	70-130	2.43	30	
Surrogate: 1,2-Dichloroethane-d4		0.0527	"	0.0400		132	23-173			
Surrogate: Toluene-d8		0.0444	"	0.0400		111	20-170			
Surrogate: 4-Bromofluorobenzene		0.0427	"	0.0400		107	21-167			

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BEL0438 - EPA 3550A

Blank (BEL0438-BLK1)

Prepared: 12/20/21 Analyzed: 12/21/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEL0438-BS1)

Prepared: 12/20/21 Analyzed: 12/21/21

C10-C28 (DRO)	482	50	mg/kg	500	96.4	70-130
---------------	-----	----	-------	-----	------	--------

Matrix Spike (BEL0438-MS1)

Source: 2112299-01

Prepared: 12/20/21 Analyzed: 12/21/21

C10-C28 (DRO)	515	50	mg/kg	500	64.7	90.1	70-130
---------------	-----	----	-------	-----	------	------	--------

Matrix Spike Dup (BEL0438-MSD1)

Source: 2112299-01

Prepared: 12/20/21 Analyzed: 12/21/21

C10-C28 (DRO)	627	50	mg/kg	500	64.7	113	70-130	19.7	20
---------------	-----	----	-------	-----	------	-----	--------	------	----

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BEL0530 - EPA 5030 Soil MS

Blank (BEL0530-BLK1)

Prepared: 12/23/21 Analyzed: 12/27/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0348		"	0.0333		104	40-150			
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.6	40-150			

LCS (BEL0530-BS1)

Prepared: 12/23/21 Analyzed: 12/27/21

Acenaphthene	0.0336	0.00500	mg/kg	0.0333	101	31-137
Anthracene	0.0358	0.00500	"	0.0333	107	30-120
Benzo (a) anthracene	0.0312	0.00500	"	0.0333	93.6	30-120
Benzo (a) pyrene	0.0297	0.00500	"	0.0333	89.2	30-120
Benzo (b) fluoranthene	0.0346	0.00500	"	0.0333	104	30-120
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333	112	30-120
Chrysene	0.0340	0.00500	"	0.0333	102	30-120
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	60.2	30-120
Fluoranthene	0.0321	0.00500	"	0.0333	96.3	30-120
Fluorene	0.0363	0.00500	"	0.0333	109	30-120
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	66.2	30-120
Pyrene	0.0234	0.00500	"	0.0333	70.2	35-142
1-Methylnaphthalene	0.0307	0.00500	"	0.0333	92.0	35-142
2-Methylnaphthalene	0.0196	0.00500	"	0.0333	58.9	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333	104	40-150
Surrogate: Fluoranthene-d10	0.0310		"	0.0333	93.1	40-150

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike		Source		%REC		RPD	
	Result	Limit	Units	Level		Result	%REC	Limits	RPD	Limit	Notes

Batch BEL0530 - EPA 5030 Soil MS

Matrix Spike (BEL0530-MS1)			Source: 2112324-01		Prepared: 12/23/21 Analyzed: 12/27/21						
Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.8	31-137				
Anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120				
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	0.0113	32.6	30-120				
Benzo (a) pyrene	0.0279	0.00500	"	0.0333	ND	83.7	30-120				
Benzo (b) fluoranthene	0.0292	0.00500	"	0.0333	ND	87.7	30-120				
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.5	30-120				
Chrysene	0.0320	0.00500	"	0.0333	0.0237	24.9	30-120				QM-07
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333	ND	74.1	30-120				
Fluoranthene	0.0180	0.00500	"	0.0333	0.0105	22.4	30-120				QM-07
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0324	0.00500	"	0.0333	ND	97.2	30-120				
Pyrene	0.0691	0.00500	"	0.0333	0.0546	43.4	35-142				
1-Methylnaphthalene	0.0387	0.00500	"	0.0333	0.0157	69.1	15-130				
2-Methylnaphthalene	0.0368	0.00500	"	0.0333	ND	110	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.3	40-150				
Surrogate: Fluoranthene-d10	0.0152		"	0.0333		45.7	40-150				

Matrix Spike Dup (BEL0530-MSD1)			Source: 2112324-01		Prepared: 12/23/21 Analyzed: 12/27/21						
Acenaphthene	0.0233	0.00500	mg/kg	0.0333	ND	70.0	31-137	15.7	30		
Anthracene	0.0223	0.00500	"	0.0333	ND	67.0	30-120	20.8	30		
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	0.0113	28.2	30-120	6.75	30		QM-07
Benzo (a) pyrene	0.0269	0.00500	"	0.0333	ND	80.8	30-120	3.53	30		
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	ND	72.8	30-120	18.5	30		
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333	ND	80.8	30-120	4.47	30		
Chrysene	0.0268	0.00500	"	0.0333	0.0237	9.13	30-120	17.8	30		QM-07
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	14.7	30		
Fluoranthene	0.0191	0.00500	"	0.0333	0.0105	25.8	30-120	6.11	30		QM-07
Fluorene	0.0245	0.00500	"	0.0333	ND	73.6	30-120	15.4	30		
Indeno (1,2,3-cd) pyrene	0.0268	0.00500	"	0.0333	ND	80.5	30-120	18.8	30		
Pyrene	0.0543	0.00500	"	0.0333	0.0546	NR	35-142	23.9	30		QM-07
1-Methylnaphthalene	0.0402	0.00500	"	0.0333	0.0157	73.4	15-130	3.67	50		
2-Methylnaphthalene	0.0386	0.00500	"	0.0333	ND	116	15-130	4.81	50		
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		67.0	40-150				
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.5	40-150				

Summit Scientific

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.



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]
Project Manager: Chris Roy

Reported:
01/06/22 11:48

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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
RPD	Relative Percent Difference