

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
P VILLE FEDERAL 5-7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
B01@5'-WP	6/2/2022	5	0.0	NS	NO	40.242147	-104.825018	Y
N Wall	6/2/2022	2.5	0.0	NS	NO	40.242179	-104.825044	N
E Wall	6/2/2022	2.5	0.0	NS	NO	40.242159	-104.824958	N
S Wall	6/2/2022	2.5	0.0	NS	NO	40.242115	-104.825015	N
W Wall	6/2/2022	2.5	0.0	NS	NO	40.242134	-104.825078	N
SEPARATOR RISER SAMPLES								
Sep01-Inlet@5.5'-WP	6/2/2022	5.5	2.3	NS	NO	40.246031	-104.825193	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	6/2/2022	3	0.0	NS	NO	40.241958	-104.825025	Y
Native-BG01@6'	6/2/2022	6	0.0	NS	NO	40.241958	-104.825025	Y
Native-BG02@3'	6/2/2022	3	0.0	NS	NO	40.242165	-104.825369	Y
Native-BG02@6'	6/2/2022	6	0.0	NS	NO	40.242165	-104.825369	Y
Native-BG03@3'	6/2/2022	3	0.0	NS	NO	40.242436	-104.825051	Y
Native-BG03@6'	6/2/2022	6	0.0	NS	NO	40.242436	-104.825051	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
P VILLE FEDERAL 5-7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO* (mg/kg)	TPH-DRO* (mg/kg)	TPH-RRO* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
B01@5'-WP	6/2/2022	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR RISER SAMPLES												
Sep01-Inlet@5.5'-WP	6/2/2022	5.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

TABLE 2-2
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
P VILLE FEDERAL 5-7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
B01@5'-WP	6/2/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
Sep01-Inlet@5.5'-WP	6/2/2022	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
P VILLE FEDERAL 5-7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
WELLHEAD EXCAVATION SAMPLES						
B01@5'-WP	6/2/2022	5	0.619	0.588	8.07	<0.100
SEPARATOR RISER SAMPLES						
Sep01-Inlet@5.5'-WP	6/2/2022	5.5	0.206	0.280	7.99	<0.100
BACKGROUND SAMPLES						
Native-BG01@3'	6/2/2022	3	0.389	3.47	8.34	<0.100
Native-BG01@6'	6/2/2022	6	0.69	3.27	8.30	<0.100
Native-BG02@3'	6/2/2022	3	0.72	2.66	8.36	<0.100
Native-BG02@6'	6/2/2022	6	0.210	2.04	8.35	<0.100
Native-BG03@3'	6/2/2022	3	0.422	2.51	8.34	<0.100
Native-BG03@6'	6/2/2022	6	0.454	2.25	8.31	<0.100

TABLE 2-4
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
METALS
P VILLE FEDERAL 5-7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WELLHEAD EXCAVATION SAMPLES												
B01@5'-WP	6/2/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
Sep01-Inlet@5.5'-WP	6/2/2022	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@3'	6/2/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG01@6'	6/2/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@3'	6/2/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@6'	6/2/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@3'	6/2/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@6'	6/2/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-5
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
NOTES
P VILLE FEDERAL 5-7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold indicated exceeds allowable level



June 13, 2022

WSP USA

Rob Rebel

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Pville Federal 5-7 wellhead Project Number - 31403177.022.66

Attached are your analytical results for KMG - Pville Federal 5-7 wellhead received by Origins Laboratory, Inc. June 02, 2022. This project is associated with Origins project number Y206072-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5-WP	Y206072-01	Soil	June 2, 2022 15:45	06/02/2022 17:30
Sep01-Inlet@5.5-WP	Y206072-02	Soil	June 2, 2022 16:20	06/02/2022 17:30
Native-BG01@3	Y206072-03	Soil	June 2, 2022 15:50	06/02/2022 17:30
Native-BG01@6	Y206072-04	Soil	June 2, 2022 15:55	06/02/2022 17:30
Native-BG02@3	Y206072-05	Soil	June 2, 2022 16:00	06/02/2022 17:30
Native-BG02@6	Y206072-06	Soil	June 2, 2022 16:05	06/02/2022 17:30
Native-BG03@3	Y206072-07	Soil	June 2, 2022 16:10	06/02/2022 17:30
Native-BG03@6	Y206072-08	Soil	June 2, 2022 16:15	06/02/2022 17:30

Origins Laboratory, Inc.



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WSP USA

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Arvada

CO

80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y206072

page 1 of 1

Client: WSP USA
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: 303 484 9943
Email Address: KMG Group

Project Manager: Rob Rebel
Project Name: Pville Federal 5-7 Wellhead
Project Number: 31403177.022.66
Samples Collected By: KMG GT

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	6-BTK+V	TPH (0.1%)	PH, EC, SAR		Boran
BolQ5-VF	6/2/22	1545	2						X				X	X	X	Blank Water - Pville
SEPTO 5-5 Sept-60015-VF		1620	1						X				X	X	X	
Native-B601Q3		1550	1						X				X	X	X	
Native-B601Q6		1555	1						X				X	X	X	
Native-B602Q3		1600	1						X				X	X	X	
Native-B602Q6		1605	1						X				X	X	X	
Native-B603Q3		1610	1						X				X	X	X	
Native-B603Q6		1615	1						X				X	X	X	
Relinquished By:				Date:	Time:	Received By:	Date:	Time:	Turnaround Time:							
Relinquished By:				Date:	Time:	Received By:	Date:	Time:	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>							
				Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>							
								Standard <input type="checkbox"/>								

Temp Received: 4.9 Date Results Needed

Origins Laboratory, Inc.

J. Bynon

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CO

80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: Y206012

Client: WSP

Client Project ID: Pville Federal 5-7 wellhead

Checklist Completed by: MS

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/2/22

Airbill #: NA

Matrix(s) Received: (Check all that apply): A Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 4.9 °C / _____ °C / _____ °C (Describe) / _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed 6/2/22

Origins Laboratory, Inc.

J. Bynon

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

B01@5-WP

6/2/2022 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206072-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F0220	ZZZ	06/02/2022	06/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	80.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0222	JSM	06/02/2022	06/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

B01@5-WP

6/2/2022 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y206072-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.62	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	0.848	0.823	"	"	"	KAP	"	"
Sodium	0.879	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.07		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	0.588		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.619	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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Origins Laboratory, Inc.



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Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Sep01-Inlet@5.5-WP

6/2/2022 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206072-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F0220	ZZZ	06/02/2022	06/03/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	81.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0222	JSM	06/02/2022	06/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Sep01-Inlet@5.5-WP

6/2/2022 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y206072-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.918	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.99		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022	
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SAR by 20B Saturated Paste

SAR	0.280		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.206	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022	
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Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Native-BG01@3

6/2/2022 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206072-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.863	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.82	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.34		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	3.47		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.389	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Native-BG01@6

6/2/2022 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206072-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.773	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.50	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.30		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	3.27		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.688	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Native-BG02@3

6/2/2022 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206072-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.768	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.94	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	2.66		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.715	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Native-BG02@6

6/2/2022 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206072-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.17	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.35		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	2.04		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.210	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Native-BG03@3

6/2/2022 4:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206072-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.943	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.04	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.34		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	2.51		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.422	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Native-BG03@6

6/2/2022 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206072-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F0308	KAP	06/03/2022	06/06/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.933	0.499	meq/L	10	[CALC]	KAP	06/03/2022	06/06/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.81	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.31		pH Units	1	B2F0309	CNG	06/03/2022	06/09/2022
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SAR by 20B Saturated Paste

SAR	2.25		SAR	1	B2F0307	KAP	06/03/2022	06/06/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.454	0.00500	mmhos/cm	1	B2F0309	CNG	06/03/2022	06/09/2022
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F0220 - EPA 3550B										
Blank (B2F0220-BLK1)					Prepared: 06/02/2022 Analyzed: 06/02/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		109	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0220 - EPA 3550B

LCS (B2F0220-BS1)

Prepared: 06/02/2022 Analyzed: 06/02/2022

Diesel (C10-C28)	987	50.0	mg/kg	1000		98.7	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0220 - EPA 3550B

LCS Dup (B2F0220-BSD1)

Prepared: 06/02/2022 Analyzed: 06/02/2022

Diesel (C10-C28)	888	50.0	mg/kg	1000		88.8	70-130	10.5	35	
Residual Range Organics (C28-C40)	897	200	"	1000		89.7	70-130	12.7	35	
Surrogate: o-Terphenyl	36		"	49.8		73.1	50-150			

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F0222 - EPA 5030 (soil)										
Blank (B2F0222-BLK1)					Prepared: 06/02/2022 Analyzed: 06/02/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0222 - EPA 5030 (soil)

LCS (B2F0222-BS1)

Prepared: 06/02/2022 Analyzed: 06/02/2022

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0992	0.00200	"	0.100		99.2	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.103	0.0100	"	0.100		103	70-130			
Toluene	0.0994	0.00200	"	0.100		99.4	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0222 - EPA 5030 (soil)

Matrix Spike (B2F0222-MS1)		Source: Y206068-01			Prepared: 06/02/2022 Analyzed: 06/02/2022					
1,2,4-Trimethylbenzene	0.0980	0.00200	mg/kg	0.100	ND	98.0	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
Naphthalene	0.108	0.0100	"	0.100	0.00148	106	70-130			
Toluene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
o-Xylene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0222 - EPA 5030 (soil)

Matrix Spike Dup (B2F0222-MSD1)		Source: Y206068-01			Prepared: 06/02/2022 Analyzed: 06/02/2022					
1,2,4-Trimethylbenzene	0.0918	0.00200	mg/kg	0.100	ND	91.8	70-130	6.56	20	
1,3,5-Trimethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130	6.34	20	
Benzene	0.0946	0.00200	"	0.100	ND	94.6	70-130	2.86	20	
Ethylbenzene	0.0931	0.00200	"	0.100	ND	93.1	70-130	6.41	20	
Naphthalene	0.111	0.0100	"	0.100	0.00148	110	70-130	3.31	20	
Toluene	0.0910	0.00200	"	0.100	ND	91.0	70-130	4.91	20	
o-Xylene	0.0914	0.00200	"	0.100	ND	91.4	70-130	6.29	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	95.2	70-130	6.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0309 - NO PREP

Blank (B2F0309-BLK1)

Prepared: 06/03/2022 Analyzed: 06/09/2022

pH 0.00 pH Units
Specific Conductance (EC) 0.00130 0.00500 mmhos/cm

Duplicate (B2F0309-DUP1)

Source: Y206060-01

Prepared: 06/03/2022 Analyzed: 06/09/2022

Specific Conductance (EC) 0.519 0.00500 mmhos/cm 0.261 66.2 25 QR-DUP
pH 7.51 pH Units 7.48 0.400 25

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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.66

Project: KMG - Pville Federal 5-7 wellhead

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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