

**TABLE 1**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**MARTINDALE STATE 7-36 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)
<b>WELLHEAD EXCAVATION SAMPLES</b>								
N Wall	3/28/2022	NA	4.8	NS	NO	NA	NA	N
E Wall	3/28/2022	NA	4.1	NS	NO	NA	NA	N
S Wall	3/28/2022	NA	5.4	NS	NO	NA	NA	N
W Wall	3/28/2022	NA	3.8	NS	NO	NA	NA	N
B01@6'	3/28/2022	6	18.2	NS	YES	NA	NA	Y
<b>FLOWLINE POTHOLE SAMPLES</b>								
Pothole 01	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 02	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 03	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 04	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 05	1/27/2022	5	0.0	NS	NO	NA	NA	N
<b>SEPARATOR RISER SAMPLES</b>								
Sep01-Inlet@3' (Rem No. 21438)	1/26/2022	3	15.3	NS	NO	NA	NA	Y
<b>BACKGROUND SOIL SAMPLES</b>								
Native-BG01@3'	3/28/2022	3	1.2	NS	NO	NA	NA	Y
Native-BG01@6'	3/28/2022	6	1.0	NS	NO	NA	NA	Y
Native-BG02@3'	3/28/2022	3	0.8	NS	NO	NA	NA	Y
Native-BG02@6'	3/28/2022	6	1.4	NS	NO	NA	NA	Y
Native-BG03@3'	3/28/2022	3	1.1	NS	NO	NA	NA	Y
Native-BG03@6'	3/28/2022	6	0.8	NS	NO	NA	NA	Y
Native-BG04@3'	3/28/2022	3	1.0	NS	NO	NA	NA	Y
Native-BG04@6'	3/28/2022	6	0.9	NS	NO	NA	NA	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 ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS**  
**MARTINDALE STATE 7-36 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
<b>WELLHEAD EXCAVATION SAMPLES</b>												
<b>B01@6'</b>	3/28/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
<b>SEPARATOR RISER SAMPLES</b>												
Sep01-Inlet@3' (Rem #21438)	1/26/2022	3	0.48	<25.0	<100	<b>0.0189</b>	0.0787	0.00854	<0.00200	<b>0.0434</b>	<b>0.0233</b>	<0.00380

**TABLE 2-2**  
**SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS**  
**POLYCYCLIC AROMATIC HYDROCARBONS**  
**MARTINDALE STATE 7-36 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
<b>WELLHEAD EXCAVATION SAMPLES</b>																
<b>B01@6'</b>	3/28/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>SEPARATOR RISER SAMPLES</b>																
<b>Sep01-Inlet@3' (Rem #21438)</b>	1/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE 2-3  
SOIL SAMPLE SOIL ANALYTICAL RESULTS  
SOIL SUITABILITY FOR RECLAMATION  
MARTINDALE STATE 7-36 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
<b>WELLHEAD EXCAVATION SAMPLES</b>						
<b>B01@6'</b>	3/28/2022	6	0.878	3.49	<b>8.49</b>	0.238
<b>SEPARATOR RISER SAMPLES</b>						
Sep01-Inlet@3' (Rem #21438)	1/26/2022	3	0.319	2.46	7.95	<0.200
<b>BACKGROUND SAMPLES</b>						
<b>Native-BG01@3'</b>	3/28/2022	3	0.588	3.08	8.02	<0.0988
<b>Native-BG01@6'</b>	3/28/2022	6	0.394	2.8	8.17	<0.100
<b>Native-BG02@3'</b>	3/28/2022	3	0.429	3.48	8.35	<0.101
<b>Native-BG02@6'</b>	3/28/2022	6	0.460	3.93	8.42	<0.0996
<b>Native-BG03@3'</b>	3/28/2022	3	0.686	3.54	8.09	0.120
<b>Native-BG03@6'</b>	3/28/2022	6	0.540	4.30	8.27	0.119
<b>Native-BG04@3'</b>	3/28/2022	3	0.409	2.80	8.32	<0.101
<b>Native-BG04@6'</b>	3/28/2022	6	0.364	2.31	8.42	<0.100

**TABLE 2-4  
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS  
METALS  
MARTINDALE STATE 7-36 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
<b>WELLHEAD EXCAVATION SAMPLES</b>												
<b>B01@6'</b>	3/28/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>SEPARATOR RISER SAMPLES</b>												
<b>Sep01-Inlet@3' (Rem #21438)</b>	1/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>BACKGROUND SAMPLES</b>												
<b>Native-BG01@3'</b>	3/28/2022	3	0.495	12.7	0.0301	<0.244	1.62	2.43	1.29	0.149	0.0108	7.4
<b>Native-BG01@6'</b>	3/28/2022	6	0.466	18.0	0.0609	<0.247	1.39	3.19	1.69	0.151	0.0171	7.8
<b>Native-BG02@3'</b>	3/28/2022	3	0.923	15.1	0.0397	<0.245	2.16	3.46	1.71	0.211	0.0136	11.3
<b>Native-BG02@6'</b>	3/28/2022	6	0.507	31.6	0.0409	<0.245	2.92	4.88	2.71	0.264	0.0205	14.1
<b>Native-BG03@3'</b>	3/28/2022	3	1.72	38.9	0.0441	<0.249	2.02	3.49	2.08	0.288	0.0169	12.2
<b>Native-BG03@6'</b>	3/28/2022	6	1.06	21.3	0.0318	<0.246	1.75	3.48	1.61	0.200	0.0203	8.65
<b>Native-BG04@3'</b>	3/28/2022	3	1.17	16.9	0.0609	<0.245	2.15	2.88	1.71	0.286	0.0147	11.3
<b>Native-BG04@6'</b>	3/28/2022	6	2.08	42.3	0.043	<0.249	1.78	6.08	1.77	0.223	0.0223	11.5

**TABLE 2-5**  
**SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS**  
**NOTES**  
**MARTINDALE STATE 7-36 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

April 08, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

**Project Name - KMG - Martindale State 7-36  
Wellhead**

**Project Number - 31403177.022.05.05**

Attached are your analytical results for KMG - Martindale State 7-36 Wellhead received by Origins Laboratory, Inc. March 28, 2022. This project is associated with Origins project number Y203708-01.

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



WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 31403177.022.05.05  
Project: KMG - Martindale State 7-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6	Y203708-01	Soil	March 28, 2022 14:42	03/28/2022 16:53
Native-BG01@3	Y203708-02	Soil	March 28, 2022 14:51	03/28/2022 16:53
Native-BG01@6	Y203708-03	Soil	March 28, 2022 14:52	03/28/2022 16:53
Native-BG02@3	Y203708-04	Soil	March 28, 2022 14:55	03/28/2022 16:53
Native-BG02@6	Y203708-05	Soil	March 28, 2022 14:56	03/28/2022 16:53
Native-BG03@3	Y203708-06	Soil	March 28, 2022 15:00	03/28/2022 16:53
Native-BG03@6	Y203708-07	Soil	March 28, 2022 15:01	03/28/2022 16:53
Native-BG04@3	Y203708-08	Soil	March 28, 2022 15:05	03/28/2022 16:53
Native-BG04@6	Y203708-09	Soil	March 28, 2022 15:06	03/28/2022 16:53

Origins Laboratory, Inc.



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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

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

**Sample Receipt Checklist**

Origins Work Order: Y2037096 Client: WSP  
 Client Project ID: Martindale State 7-36 u

Checklist Completed by: JA Shipped Via: HD  
 Date/time completed: 3/28/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1, 5.1 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NpAsO <sub>2</sub> +NaOH, ZnAc <sub>2</sub> +NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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) [Signature]

Date/Time Reviewed 3/28/22

Origins Laboratory, Inc.

[Signature]

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**B01@6**  
**3/28/2022 2:42:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.238		0.0993	mg/L	1	B2C2909	03/29/2022	03/30/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2832	03/28/2022	03/28/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

Benzene	ND		0.00200	mg/kg	1	B2C2833	03/28/2022	03/28/2022	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

B01@6

3/28/2022 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y203708-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	2.87	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.72	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.49		pH Units	1	B2C2916	03/31/2022	04/01/2022
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**SAR by 20B Saturated Paste**

SAR	3.49		SAR	1	B2C2907	03/29/2022	03/31/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.878	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
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Origins Laboratory, Inc.



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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG01@3**  
**3/28/2022 2:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0988	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.84		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.48		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.02			pH Units	1	B2C2916	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	3.08			SAR	1	B2C2907	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.588		0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	0.495	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	12.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.0301	0.0259	0.25	"	"	"	"	"	J
Copper	1.62	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA  
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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG01@3**

**3/28/2022 2:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-02 (Soil)**

**Total Metals by 6020B**

Lead	2.43	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.29	0.0633	0.25	"	"	"	"	"	
Selenium	0.149	0.103	0.25	"	"	"	"	"	J
Silver	0.0108	0.0067	0.25	"	"	"	"	"	J
Zinc	7.4	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L609117	03/28/2022	04/06/2022	
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Origins Laboratory, Inc.



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WSP USA  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG01@6**  
**3/28/2022 2:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.12		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.44		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.17			pH Units	1	B2C2916	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	2.80			SAR	1	B2C2907	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.394		0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	0.466	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	18	0.042	0.25	"	"	"	"	"	
Cadmium	0.0609	0.0259	0.25	"	"	"	"	"	J
Copper	1.39	0.0806	0.25	"	"	"	"	"	

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WSP USA  
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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG01@6**

**3/28/2022 2:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-03 (Soil)**

**Total Metals by 6020B**

Lead	3.19	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.69	0.0633	0.25	"	"	"	"	"	
Selenium	0.151	0.103	0.25	"	"	"	"	"	J
Silver	0.0171	0.0067	0.25	"	"	"	"	"	J
Zinc	7.8	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L609117	03/28/2022	04/06/2022	
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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG02@3**  
**3/28/2022 2:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.888		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.76		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.35			pH Units	1	B2C2916	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	3.48			SAR	1	B2C2907	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.429		0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	0.923	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	15.1	0.042	0.25	"	"	"	"	"	
Cadmium	0.0397	0.0259	0.25	"	"	"	"	"	J
Copper	2.16	0.0806	0.25	"	"	"	"	"	

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 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG02@3**  
**3/28/2022 2:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-04 (Soil)**

**Total Metals by 6020B**

Lead	3.46	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.211	0.103	0.25	"	"	"	"	"	J
Silver	0.0136	0.0067	0.25	"	"	"	"	"	J
Zinc	11.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L609117	03/28/2022	04/06/2022	
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 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG02@6**  
**3/28/2022 2:56:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0996	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.968		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.28		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.42			pH Units	1	B2C2916	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	3.93			SAR	1	B2C2907	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.460		0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	0.507	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	31.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.0409	0.0259	0.25	"	"	"	"	"	J
Copper	2.92	0.0806	0.25	"	"	"	"	"	

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 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG02@6**  
**3/28/2022 2:56:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-05 (Soil)**

**Total Metals by 6020B**

Lead	4.88	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	2.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.264	0.103	0.25	"	"	"	"	"	
Silver	0.0205	0.0067	0.25	"	"	"	"	"	J
Zinc	14.1	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L609117	03/28/2022	04/06/2022	
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 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG03@3**  
**3/28/2022 3:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.120		0.100	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.04		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.22		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.09			pH Units	1	B2C2916	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	3.54			SAR	1	B2C2907	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.686		0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	1.72	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	38.9	0.042	0.25	"	"	"	"	"	
Cadmium	0.0441	0.0259	0.25	"	"	"	"	"	J
Copper	2.02	0.0806	0.25	"	"	"	"	"	

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 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG03@3**  
**3/28/2022 3:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-06 (Soil)**

**Total Metals by 6020B**

Lead	3.49	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	2.08	0.0633	0.25	"	"	"	"	"	
Selenium	0.288	0.103	0.25	"	"	"	"	"	
Silver	0.0169	0.0067	0.25	"	"	"	"	"	J
Zinc	12.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L609117	03/28/2022	04/06/2022	
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 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG03@6**  
**3/28/2022 3:01:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.119		0.0993	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.14		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.87		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B2C2916	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	4.30			SAR	1	B2C2907	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.540		0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	1.06	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	21.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.0318	0.0259	0.25	"	"	"	"	"	J
Copper	1.75	0.0806	0.25	"	"	"	"	"	

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Brian Sulzberger  
Project Number: 31403177.022.05.05  
Project: KMG - Martindale State 7-36 Wellhead

**Native-BG03@6**  
**3/28/2022 3:01:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-07 (Soil)**

**Total Metals by 6020B**

Lead	3.48	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.61	0.0633	0.25	"	"	"	"	"	
Selenium	0.2	0.103	0.25	"	"	"	"	"	J
Silver	0.0203	0.0067	0.25	"	"	"	"	"	J
Zinc	8.65	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L609117	03/28/2022	04/06/2022	
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 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG04@3**  
**3/28/2022 3:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.17		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.54		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.32			pH Units	1	B2C2921	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	2.80			SAR	1	B2C2908	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.409		0.00500	mmhos/cm	1	B2C2917	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	1.17	0.0855	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022	
Barium	16.9	0.042	0.25	"	"	"	"	"	
Cadmium	0.0609	0.0259	0.25	"	"	"	"	"	J
Copper	2.15	0.0806	0.25	"	"	"	"	"	

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Project Number: 31403177.022.05.05  
Project: KMG - Martindale State 7-36 Wellhead

**Native-BG04@3**  
**3/28/2022 3:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-08 (Soil)**

**Total Metals by 6020B**

Lead	2.88	0.031	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022	
Nickel	1.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.286	0.103	0.25	"	"	"	"	"	
Silver	0.0147	0.0067	0.25	"	"	"	"	"	J
Zinc	11.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L609119	03/28/2022	04/06/2022	
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 Project: KMG - Martindale State 7-36 Wellhead

**Native-BG04@6**  
**3/28/2022 3:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203708-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2C2910	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.18		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.08		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.42			pH Units	1	B2C2921	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	2.31			SAR	1	B2C2908	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.364		0.00500	mmhos/cm	1	B2C2917	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	2.08	0.0855	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022	
Barium	42.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.043	0.0259	0.25	"	"	"	"	"	J
Copper	1.78	0.0806	0.25	"	"	"	"	"	

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Project Number: 31403177.022.05.05  
Project: KMG - Martindale State 7-36 Wellhead

**Native-BG04@6**  
**3/28/2022 3:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y203708-09 (Soil)**

**Total Metals by 6020B**

Lead	6.08	0.031	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022	
Nickel	1.77	0.0633	0.25	"	"	"	"	"	
Selenium	0.223	0.103	0.25	"	"	"	"	"	J
Silver	0.0233	0.0067	0.25	"	"	"	"	"	J
Zinc	11.5	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L609119	03/28/2022	04/06/2022	
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Origins Laboratory, Inc.



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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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
<b>Batch B2C2832 - EPA 3550B</b>										
<b>Blank (B2C2832-BLK1)</b>										
					Prepared: 03/28/2022 Analyzed: 03/28/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		98.9	50-150			

Origins Laboratory, Inc.



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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2832 - EPA 3550B**

**LCS (B2C2832-BS1)**

Prepared: 03/28/2022 Analyzed: 03/28/2022

Diesel (C10-C28)	795	50.0	mg/kg	1000		79.5	70-130			
Residual Range Organics (C28-C40)	941	200	"	1000		94.1	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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WSP USA  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2832 - EPA 3550B**

<b>Matrix Spike (B2C2832-MS1)</b>	<b>Source: Y203702-01</b>			Prepared: 03/28/2022 Analyzed: 03/28/2022						
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.8	50-150			

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WSP USA  
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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2832 - EPA 3550B**

<b>Matrix Spike Dup (B2C2832-MSD1)</b>	<b>Source: Y203702-01</b>			<b>Prepared: 03/28/2022 Analyzed: 03/28/2022</b>						
Diesel (C10-C28)	839	50.0	mg/kg	1000	ND	83.9	70-130	2.85	35	
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130	4.06	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2833 - EPA 5030 (soil)**

**Blank (B2C2833-BLK1)**

Prepared: 03/28/2022 Analyzed: 03/28/2022

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	0.11		"	0.125		89.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	70-130			

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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2833 - EPA 5030 (soil)**

**LCS (B2C2833-BS1)**

Prepared: 03/28/2022 Analyzed: 03/28/2022

1,2,4-Trimethylbenzene	0.0873	0.00200	mg/kg	0.100		87.3	70-130			
1,3,5-Trimethylbenzene	0.0877	0.00200	"	0.100		87.7	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0872	0.00200	"	0.100		87.2	70-130			
Naphthalene	0.0977	0.0100	"	0.100		97.7	70-130			
Toluene	0.0990	0.00200	"	0.100		99.0	70-130			
o-Xylene	0.0868	0.00200	"	0.100		86.8	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

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 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2833 - EPA 5030 (soil)

Matrix Spike (B2C2833-MS1)	Source: Y203702-01			Prepared: 03/28/2022 Analyzed: 03/28/2022						
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
Naphthalene	0.0977	0.0100	"	0.100	ND	97.7	70-130			
Toluene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
o-Xylene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

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Brian Sulzberger  
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 Project: KMG - Martindale State 7-36 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 B2C2833 - EPA 5030 (soil)**

Matrix Spike Dup (B2C2833-MSD1)	Source: Y203702-01			Prepared: 03/28/2022 Analyzed: 03/28/2022						
1,2,4-Trimethylbenzene	0.145	0.00200	mg/kg	0.100	ND	145	70-130	51.8	20	QM-07
1,3,5-Trimethylbenzene	0.142	0.00200	"	0.100	ND	142	70-130	48.3	20	QM-07
Benzene	0.155	0.00200	"	0.100	ND	155	70-130	48.0	20	QM-07
Ethylbenzene	0.141	0.00200	"	0.100	ND	141	70-130	51.1	20	QM-07
Naphthalene	0.151	0.0100	"	0.100	ND	151	70-130	42.9	20	QM-07
Toluene	0.150	0.00200	"	0.100	ND	150	70-130	41.1	20	QM-07
o-Xylene	0.140	0.00200	"	0.100	ND	140	70-130	49.6	20	QM-07
m,p-Xylene	0.280	0.00400	"	0.200	ND	140	70-130	50.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.1	70-130			

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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 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 B2C2914 - NO PREP**

**Blank (B2C2914-BLK1)**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

**Duplicate (B2C2914-DUP1)**

**Source: Y203677-03**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.170 0.00500 mmhos/cm

0.181

6.14

25

**Batch B2C2916 - NO PREP**

**Duplicate (B2C2916-DUP1)**

**Source: Y203677-03**

Prepared: 03/31/2022 Analyzed: 04/01/2022

pH 7.84 pH Units

7.86

0.255

25

**Batch B2C2917 - NO PREP**

**Blank (B2C2917-BLK1)**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

**Duplicate (B2C2917-DUP1)**

**Source: Y203708-08**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.526 0.00500 mmhos/cm

0.409

25.1

25

QR-DUP

**Batch B2C2921 - NO PREP**

**Duplicate (B2C2921-DUP1)**

**Source: Y203708-08**

Prepared: 03/31/2022 Analyzed: 04/01/2022

pH 8.15 pH Units

8.32

2.06

25

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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608314 - 3050B**

<b>MSD (L 97403-MSD-L608314)</b>		<b>Source: 97403</b>			Prepared: 04/01/2022 Analyzed: 04/04/2022					
Selenium	5.23	0.103	mg/Kg	4.73	1.97	69	75-125	12.3	80	*
Nickel	20.5	0.0633	"	2.37	12.8	325	75-125	74.4	80	*
Lead	16.4	0.031	"	2.37	12.4	169	75-125	17.7	80	*
Zinc	85	0.534	"	23.7	53.4	133	75-125	63.4	80	*
Silver	0.452	0.0067	"	0.473	0.0269	90	75-125	7.2	80	
Copper	16.9	0.0806	"	2.37	12.2	199	75-125	51.7	80	*
Cadmium	0.776	0.0259	"	0.473	0.303	100	75-125	25.2	80	
Barium	431	0.042	"	4.73	226	NR	75-125	36.8	80	*
Arsenic	9.56	0.0855	"	2.37	6.05	148	75-125	49.8	80	*

<b>MS (L 97403-MS-L608314)</b>		<b>Source: 97403</b>			Prepared: 04/01/2022 Analyzed: 04/04/2022					
Silver	0.486	0.0067	mg/Kg	0.469	0.0269	98	75-125			
Copper	29.2	0.161	"	2.35	12.2	725	75-125			*
Zinc	164	0.534	"	23.5	53.4	472	75-125			*
Lead	19.6	0.031	"	2.35	12.4	307	75-125			*
Cadmium	1	0.0259	"	0.469	0.303	149	75-125			*
Barium	297	0.042	"	4.69	226	NR	75-125			*
Arsenic	15.9	0.0855	"	2.35	6.05	420	75-125			*
Selenium	5.92	0.103	"	4.69	1.97	84	75-125			
Nickel	44.8	0.0633	"	2.35	12.8	NR	75-125			*

<b>LCS (LCS-L608314)</b>		Prepared: 04/01/2022 Analyzed: 04/04/2022								
Barium	4.79	0.042	mg/Kg	5		96	80-120			
Zinc	24.1	0.534	"	25		96	80-120			
Silver	0.495	0.0067	"	0.5		99	80-120			
Selenium	5.16	0.103	"	5		103	80-120			
Nickel	2.53	0.0633	"	2.5		101	80-120			

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608314 - 3050B**

**LCS (LCS-L608314)**

Prepared: 04/01/2022 Analyzed: 04/04/2022

Lead	2.4	0.031	mg/Kg	2.5		96	80-120			
Cadmium	0.475	0.0259	"	0.5		95	80-120			
Arsenic	2.53	0.0855	"	2.5		101	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			

**LRB (LRB-L608314)**

Prepared: 04/01/2022 Analyzed: 04/04/2022

Silver	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

Origins Laboratory, Inc.



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WSP USA  
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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L609119 -</b>										
<b>DUP (L 97394-DUP)</b>		<b>Source: Y203708-08</b>			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		97394		-	0	20	
<b>MS (L 97394-MS)</b>		<b>Source: Y203708-08</b>			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	5.95	0.244	mg/Kg	7.78	97394	76	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 04/06/2022								
Chromium, Hexavalent	6.59	0.244	mg/Kg	8		82	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 04/06/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608240 - 3050B**

<b>MSD (L 97393-MSD-L608240)</b>		<b>Source: Y203708-07</b>			<b>Prepared: 04/01/2022 Analyzed: 04/04/2022</b>					
Copper	6.17	0.0806	mg/Kg	2.48	1.75	178	75-125	12.5	80	*
Arsenic	4.21	0.0855	"	2.48	1.06	127	75-125	8.9	80	*
Zinc	41.1	0.534	"	24.8	8.65	131	75-125	4.9	80	*
Lead	9	0.031	"	2.48	3.48	223	75-125	4.8	80	*
Nickel	5.31	0.0633	"	2.48	1.61	149	75-125	0.7	80	*
Selenium	5.18	0.103	"	4.96	0.2	100	75-125	0.9	80	
Cadmium	0.572	0.0259	"	0.496	0.0318	109	75-125	11	80	
Silver	0.534	0.0067	"	0.496	0.0203	104	75-125	1.8	80	
Barium	41.6	0.042	"	4.96	21.3	409	75-125	3.7	80	*

<b>MS (L 97393-MS-L608240)</b>		<b>Source: Y203708-07</b>			<b>Prepared: 04/01/2022 Analyzed: 04/04/2022</b>					
Copper	5.44	0.0806	mg/Kg	2.39	1.75	154	75-125			*
Cadmium	0.512	0.0259	"	0.478	0.0318	100	75-125			
Lead	8.57	0.031	"	2.39	3.48	213	75-125			*
Nickel	5.27	0.0633	"	2.39	1.61	153	75-125			*
Selenium	5.23	0.103	"	4.78	0.2	105	75-125			
Silver	0.524	0.0067	"	0.478	0.0203	105	75-125			
Zinc	39.1	0.534	"	23.9	8.65	127	75-125			*
Barium	43.2	0.042	"	4.78	21.3	458	75-125			*
Arsenic	3.85	0.0855	"	2.39	1.06	117	75-125			

<b>LCS (LCS-L608240)</b>		<b>Prepared: 04/01/2022 Analyzed: 04/04/2022</b>								
Selenium	5.42	0.103	mg/Kg	5		108	80-120			
Silver	0.496	0.0067	"	0.5		99	80-120			
Nickel	2.47	0.0633	"	2.5		99	80-120			
Copper	2.44	0.0806	"	2.5		98	80-120			
Cadmium	0.483	0.0259	"	0.5		97	80-120			

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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608240 - 3050B**

**LCS (LCS-L608240)**

Prepared: 04/01/2022 Analyzed: 04/04/2022

Barium	4.91	0.042	mg/Kg	5		98	80-120			
Arsenic	2.67	0.0855	"	2.5		107	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Zinc	24.5	0.534	"	25		98	80-120			

**LRB (LRB-L608240)**

Prepared: 04/01/2022 Analyzed: 04/04/2022

Cadmium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

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Brian Sulzberger  
 Project Number: 31403177.022.05.05  
 Project: KMG - Martindale State 7-36 Wellhead

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L609117 -</b>										
<b>DUP (L 97375-DUP)</b>		<b>Source: 97375</b>			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.502	mg/Kg		97375		-	0	20	
<b>MS (L 97375-MS)</b>		<b>Source: 97375</b>			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	9.2	1.26	mg/Kg	8.26	97375	111	75-125			

Origins Laboratory, Inc.



*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 USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 31403177.022.05.05  
Project: KMG - Martindale State 7-36 Wellhead

**Notes and Definitions**

U Sample is Non-Detect.

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

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

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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