

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND 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								
SS01 @2'	6/20/2023	2	13.8	NS	NO	40.179614	-104.727538	Y
B01 @6.5'	7/19/2023	6.5	1.0	NS	NO	40.179615	-104.727532	Y
N01 @3'	7/19/2023	3	0.3	NS	NO	40.179636	-104.727537	Y
E01 @3'	7/19/2023	3	0.3	NS	NO	40.179618	-104.727513	Y
S01 @3'	7/19/2023	3	0.3	NS	NO	40.179603	-104.727533	Y
WH01-RISER @5'	7/19/2023	5	0.7	NS	NO	40.179610	-104.727548	Y
FS01	7/19/2023	0.5	0.5	NS	NO	40.17965721	-104.7275332	N
FS02	7/19/2023	0.5	0.4	NS	NO	40.17959645	-104.7274453	N
FS03	7/19/2023	0.5	0.2	NS	NO	40.17955424	-104.7274998	N
FS04	7/19/2023	0.5	0.1	NS	NO	40.17959785	-104.7275706	N
B02 @9'	8/23/2023	9	7.9	NS	NO	40.179608	-104.727528	Y
S02 @3'	8/23/2023	3	7.0	NS	NO	40.179595	-104.727511	Y
S03 @3'	9/14/2023	3	0.9	NS	NO	40.179590	-104.72753	Y
FLOWLINE POTHOLE SAMPLES								
PH01 @4'	7/19/2023	4	0.2	NS	NO	40.17954609	-104.727844	N
PH02 @4'	7/19/2023	4	0.1	NS	NO	40.17943198	-104.728266	N
PH03 @4'	7/19/2023	4	0.0	NS	NO	40.17931377	-104.7284988	N
PH04 @4'	7/19/2023	4	0.0	NS	NO	40.17923391	-104.7286507	N
PH05 @4'	7/19/2023	4	0.0	NS	NO	40.17915707	-104.728792	N
PH06 @4'	7/19/2023	4	0.0	NS	NO	40.17897	-104.72911	N
PH07 @4'	7/19/2023	4	0.0	NS	NO	40.178876	-104.729287	N
PH08 @4'	7/19/2023	4	0.0	NS	NO	40.178800	-104.729414	N
SEPARATOR RISER SAMPLE								
SEP01-RISER @4'	7/19/2023	4	0.9	NS	NO	40.17885916	-104.7303972	Y
BACKGROUND SOIL SAMPLES								
Native-BG01 @0.5'	6/20/2023	0.5	0.2	NS	NO	40.17986952	-104.7275143	Y
Native-BG02 @0.5'	6/20/2023	0.5	0.3	NS	NO	40.1795216	-104.7271562	Y
Native-BG03 @0.5'	6/20/2023	0.5	0.7	NS	NO	40.1793305	-104.7275346	Y
Native-BG04 @0.5'	6/20/2023	0.5	0.2	NS	NO	40.17960329	-104.7279017	Y
NATIVE-BG05 @3'	7/19/2023	3	0.0	NS	NO	40.17969251	-104.7275459	Y
NATIVE-BG05 @6'	7/19/2023	6	0.3	NS	NO	40.17969251	-104.7275459	Y
NATIVE-BG06 @3'	7/19/2023	3	0.3	NS	NO	40.17960352	-104.7273882	Y
NATIVE-BG06 @6'	7/19/2023	6	0.8	NS	NO	40.17960352	-104.7273882	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
BACKGROUND SOIL SAMPLES								
NATIVE-BG07@3'	7/19/2023	3	0.7	NS	NO	40.17949074	-104.7274728	Y
NATIVE-BG07@6'	7/19/2023	6	0.8	NS	NO	40.17949074	-104.7274728	Y
NATIVE-BG08@3'	7/19/2023	3	0.4	NS	NO	40.17960484	-104.7276543	Y
NATIVE-BG08@6'	7/19/2023	6	0.5	NS	NO	40.17960484	-104.7276543	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
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND 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												
SS01 @2'	6/20/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B01 @6.5'	7/19/2023	6.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
WH01-RISER @5'	7/19/2023	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
N01 @3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E01 @3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01 @3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B02 @9'	8/23/2023	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S02 @3'	8/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S03 @3'	9/14/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLE												
SEP01-RISER @4'	7/19/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND 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																
SS01 @2'	6/20/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B01 @6.5'	7/19/2023	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-RISER @5'	7/19/2023	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N01 @3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E01 @3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01 @3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B02 @9'	8/23/2023	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S02 @3'	8/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S03 @3'	9/14/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLE																
SEP01-RISER @4'	7/19/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND 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						
SS01@2'	6/20/2023	2	0.390	2.11	8.49*	<0.101
B01@6.5'	7/19/2023	6.5	0.506	1.30	7.75	<0.0988
WH01-RISER@5'	7/19/2023	5	0.212	0.471	6.52	<0.100
N01@3'	7/19/2023	3	NA	NA	7.53	NA
E01@3'	7/19/2023	3	NA	NA	7.72	NA
S01@3'	7/19/2023	3	NA	NA	8.00	NA
B02@9'	8/23/2023	9	NA	NA	8.27	NA
S02@3'	8/23/2023	3	NA	NA	8.39*	NA
S03@3'	9/14/2023	3	NA	NA	7.97	NA
SEPARATOR RISER SAMPLES						
SEP01-RISER@4'	7/19/2023	4	0.203	0.213	8.12	<0.100
BACKGROUND SAMPLES						
Native-BG01@0.5'	6/20/2023	0.5	0.264	0.0515	8.00	<0.0983
Native-BG02@0.5'	6/20/2023	0.5	0.141	0.0755	7.98	<0.102
Native-BG03@0.5'	6/20/2023	0.5	0.198	0.0558	7.62	<0.102
Native-BG04@0.5'	6/20/2023	0.5	0.212	0.0645	7.24	<1.01
NATIVE-BG05@3'	7/19/2023	3	0.148	0.225	6.78	<0.0989
NATIVE-BG05@6'	7/19/2023	6	0.156	0.132	6.68	<0.101
NATIVE-BG06@3'	7/19/2023	3	0.119	0.111	8.10	0.111
NATIVE-BG06@6'	7/19/2023	6	0.148	1.37	7.85	<0.100
NATIVE-BG07@3'	7/19/2023	3	0.0992	0.158	7.31	<0.0981
NATIVE-BG07@6'	7/19/2023	6	0.0636	0.326	7.24	<0.101
NATIVE-BG08@3'	7/19/2023	3	0.0358	0.184	7.20	<0.0999
NATIVE-BG08@6'	7/19/2023	6	0.0394	0.526	7.30	<0.0982

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	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												
SS01 @2'	6/20/2023	2	1.10*	40.1	0.187	<0.503	<9.24	15.8	<9.24	<0.0924	<0.0924	<92.4
B01 @6.5'	7/19/2023	6.5	1.22*	54.7	<0.0937	<0.507	<9.37	21.7	<9.37	<0.0937	<0.0937	<93.7
WH01-RISER @5'	7/19/2023	5	1.06*	31.6	<0.0857	<0.5	<8.57	<8.57	<8.57	<0.0857	<0.0857	<85.7
N01 @3'	7/19/2023	3	1.12*	35.8	<0.0910	NA	NA	<9.10	NA	NA	NA	NA
E01 @3'	7/19/2023	3	1.42*	41.1	<0.0948	NA	NA	<9.48	NA	NA	NA	NA
S01 @3'	7/19/2023	3	1.16*	62.0	<0.0881	NA	NA	14.2	NA	NA	NA	NA
B02 @9'	8/23/2023	9	1.39*	53.9	<0.0919	NA	NA	<9.19	NA	NA	NA	NA
S02 @3'	8/23/2023	3	1.32*	33.6	<0.0960	NA	NA	19.6	NA	NA	NA	NA
S03 @3'	9/14/2023	3	0.959*	32.8	<0.0884	NA	NA	<8.84	NA	NA	NA	NA
SEPARATOR RISER SAMPLE												
SEP01-RISER @4'	7/19/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01 @0.5'	6/20/2023	0.5	1.19	35.4	<0.0947	<0.506	<9.47	<9.47	<9.47	<0.0947	<0.0947	<94.7
Native-BG02 @0.5'	6/20/2023	0.5	1.12	25.3	<0.0873	<0.511	<8.73	<8.73	<8.73	<0.0873	<0.0873	<87.3
Native-BG03 @0.5'	6/20/2023	0.5	1.02	24.5	<0.0956	<0.512	<9.56	<9.56	<9.56	<0.0956	<0.0956	<95.6
Native-BG04 @0.5'	6/20/2023	0.5	0.979	28.5	0.0872	<1	<8.72	<8.72	<8.72	<0.0872	<0.0872	<87.2
NATIVE-BG05 @3'	7/19/2023	3	1.23	46.2	<0.0955	<0.506	<9.55	<9.55	<9.55	<0.0955	<0.0955	<95.5
NATIVE-BG05 @6'	7/19/2023	6	1.33	39.1	<0.0913	<0.5	<9.13	<9.13	<9.13	<0.0913	<0.0913	<91.3
NATIVE-BG06 @3'	7/19/2023	3	1.34	40.9	<0.0878	<0.5	<8.78	<8.78	<8.78	<0.0878	<0.0878	<87.8
NATIVE-BG06 @6'	7/19/2023	6	1.14	39.4	<0.0932	<0.5	<9.32	<9.32	<9.32	<0.0932	<0.0932	<93.2
NATIVE-BG07 @3'	7/19/2023	3	1.05	35.1	<0.0841	<0.507	<8.41	<8.41	<8.41	<0.0841	<0.0841	<84.1
NATIVE-BG07 @6'	7/19/2023	6	1.18	43.4	<0.0892	<0.5	<8.92	<8.92	<8.92	<0.0892	<0.0892	<89.2
NATIVE-BG08 @3'	7/19/2023	3	1.04	30.4	<0.0909	<0.507	<9.09	<9.09	<9.09	<0.0909	<0.0909	<90.9
NATIVE-BG08 @6'	7/19/2023	6	3.27	37.7	0.133	<0.505	<8.81	<8.81	<8.81	<0.0881	<0.0881	<88.1

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND 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

*Exceeds Table 915-1 allowable level but below analytical variability of background

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 - exceeds Table 915-1 allowable level

July 03, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - HSR - Fed 11-36 Wellhead Project Number - 09A1417382

Attached are your analytical results for KMG - HSR - Fed 11-36 Wellhead received by Origins Laboratory, Inc. June 20, 2023. This project is associated with Origins project number Y306518-01.

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



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@2'	Y306518-01	Soil	June 20, 2023 15:10	06/20/2023 17:16
Native-BG01@0.5'	Y306518-02	Soil	June 20, 2023 15:15	06/20/2023 17:16
Native-BG02@0.5'	Y306518-03	Soil	June 20, 2023 15:20	06/20/2023 17:16
Native-BG03@0.5'	Y306518-04	Soil	June 20, 2023 15:25	06/20/2023 17:16
Native-BG04@0.5'	Y306518-05	Soil	June 20, 2023 15:30	06/20/2023 17:16

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4300518

Client: Ensolum

Client Project ID: Fed 11-36 Wellhead

Checklist Completed by: EH3

Shipped Via: HL

Date/time completed: 6/20/23

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 112 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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: 6/23/20

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

SS01@2'

6/20/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/kg	1	B3F2112	06/21/2023	06/22/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2031	06/20/2023	06/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2033	06/20/2023	06/20/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

SS01@2'

6/20/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130	B3F2033	06/20/2023	06/20/2023
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.897	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.67	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2032	06/21/2023	06/21/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

SS01@2'

6/20/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2032	06/21/2023	06/21/2023	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Nitrobenzene-d5	81.7 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	103 %	60-130	"	"	"
Surrogate: Terphenyl-d14	99.1 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B3F2122	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	2.11	SAR	1	B3F2117	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.390	0.00500 mmhos/cm	1	B3F2122	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

SS01@2'

6/20/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.10	0.0924	mg/kg	10	B3F2102	06/21/2023	06/23/2023	
Barium	40.1	9.24	"	"	"	"	"	
Cadmium	0.187	0.0924	"	"	"	"	"	
Copper	ND	9.24	"	"	"	"	"	U
Lead	15.8	9.24	"	"	"	"	"	
Nickel	ND	9.24	"	"	"	"	"	U
Selenium	ND	0.0924	"	"	"	"	"	U
Silver	ND	0.0924	"	"	"	"	"	U
Zinc	ND	92.4	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L690041	06/20/2023	06/29/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG01@0.5'
6/20/2023 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0983	mg/kg	1	B3F2112	06/21/2023	06/22/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.09	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.00		pH Units	1	B3F2122	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	0.0515		SAR	1	B3F2117	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.264	0.00500	mmhos/cm	1	B3F2122	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	1.19	0.0947	mg/kg	10	B3F2102	06/21/2023	06/23/2023
Barium	35.4	9.47	"	"	"	"	"
Cadmium	ND	0.0947	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG01@0.5'
6/20/2023 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.47	mg/kg	10	B3F2102	06/21/2023	06/23/2023	U
Lead	ND	9.47	"	"	"	"	"	U
Nickel	ND	9.47	"	"	"	"	"	U
Selenium	ND	0.0947	"	"	"	"	"	U
Silver	ND	0.0947	"	"	"	"	"	U
Zinc	ND	94.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L690041	06/20/2023	06/29/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG02@0.5'
6/20/2023 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/kg	1	B3F2112	06/21/2023	06/22/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.764	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B3F2122	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	0.0755	SAR	1	B3F2117	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.141	0.00500	mmhos/cm	1	B3F2122	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	1.12	0.0873	mg/kg	10	B3F2102	06/21/2023	06/23/2023
Barium	25.3	8.73	"	"	"	"	"
Cadmium	ND	0.0873	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG02@0.5'
6/20/2023 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.73	mg/kg	10	B3F2102	06/21/2023	06/23/2023	U
Lead	ND		8.73	"	"	"	"	"	U
Nickel	ND		8.73	"	"	"	"	"	U
Selenium	ND		0.0873	"	"	"	"	"	U
Silver	ND		0.0873	"	"	"	"	"	U
Zinc	ND		87.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L690041	06/20/2023	06/29/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG03@0.5'
6/20/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/kg	1	B3F2112	06/21/2023	06/22/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.776	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.62	pH Units	1	B3F2122	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	0.0558	SAR	1	B3F2117	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.198	0.00500	mmhos/cm	1	B3F2122	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	1.02	0.0956	mg/kg	10	B3F2102	06/21/2023	06/23/2023
Barium	24.5	9.56	"	"	"	"	"
Cadmium	ND	0.0956	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG03@0.5'
6/20/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.56	mg/kg	10	B3F2102	06/21/2023	06/23/2023	U
Lead	ND	9.56	"	"	"	"	"	U
Nickel	ND	9.56	"	"	"	"	"	U
Selenium	ND	0.0956	"	"	"	"	"	U
Silver	ND	0.0956	"	"	"	"	"	U
Zinc	ND	95.6	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L690041	06/20/2023	06/29/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG04@0.5'
6/20/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/kg	10	B3F2112	06/21/2023	06/22/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.74	0.499	meq/L	"	[CALC]	06/21/2023	06/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.24	pH Units	1	B3F2122	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	0.0645	SAR	1	B3F2117	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.212	0.00500	mmhos/cm	1	B3F2122	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	0.979	0.0872	mg/kg	10	B3F2102	06/21/2023	06/23/2023
Barium	28.5	8.72	"	"	"	"	"
Cadmium	0.0872	0.0872	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Native-BG04@0.5'
6/20/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306518-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.72	mg/kg	10	B3F2102	06/21/2023	06/23/2023	U
Lead	ND	8.72	"	"	"	"	"	U
Nickel	ND	8.72	"	"	"	"	"	U
Selenium	ND	0.0872	"	"	"	"	"	U
Silver	ND	0.0872	"	"	"	"	"	U
Zinc	ND	87.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L690041	06/20/2023	06/29/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch B3F2031 - EPA 3550B										
Blank (B3F2031-BLK1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		74.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch B3F2031 - EPA 3550B										
LCS (B3F2031-BS1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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 B3F2031 - EPA 3550B

Matrix Spike (B3F2031-MS1)		Source: Y306509-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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 B3F2031 - EPA 3550B

Matrix Spike Dup (B3F2031-MSD1)		Source: Y306509-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130	2.57	35	
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130	2.48	35	
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch B3F2033 - EPA 5030 (soil)										
Blank (B3F2033-BLK1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
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	0.00380	"							U
Toluene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch B3F2033 - EPA 5030 (soil)										
LCS (B3F2033-BS1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100		98.3	70-130			
1,3,5-Trimethylbenzene	0.0977	0.00200	"	0.100		97.7	70-130			
Benzene	0.0910	0.00200	"	0.100		91.0	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100		92.4	70-130			
Naphthalene	0.0985	0.00380	"	0.100		98.5	70-130			
Toluene	0.0906	0.00200	"	0.100		90.6	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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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 B3F2033 - EPA 5030 (soil)

Matrix Spike (B3F2033-MS1)		Source: Y306514-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Naphthalene	0.0946	0.00380	"	0.100	0.00108	93.5	70-130			
Toluene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
o-Xylene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: KMG - HSR - Fed 11-36 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
Batch B3F2033 - EPA 5030 (soil)										
Matrix Spike Dup (B3F2033-MSD1)		Source: Y306514-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100	ND	96.2	70-130	3.99	20	
1,3,5-Trimethylbenzene	0.0941	0.00200	"	0.100	ND	94.1	70-130	4.02	20	
Benzene	0.0837	0.00200	"	0.100	ND	83.7	70-130	0.0239	20	
Ethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	5.82	20	
Naphthalene	0.102	0.00380	"	0.100	0.00108	101	70-130	7.37	20	
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130	2.63	20	
o-Xylene	0.0923	0.00200	"	0.100	ND	92.3	70-130	3.68	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	87.9	70-130	5.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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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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Metals by EPA 6000/7000 Series Methods - 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 B3F2102 - EPA 3050B

Blank (B3F2102-BLK1)

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Selenium	ND	0.000100	"							U

LCS (B3F2102-BS1)

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	0.0510	0.000100	mg/kg	0.0500		102	80-120			
Barium	5.35	0.0100	"	5.00		107	80-120			
Cadmium	0.0508	0.000100	"	0.0500		102	80-120			
Copper	0.521	0.0100	"	0.500		104	80-120			
Selenium	0.0500	0.000100	"	0.0500		100	80-120			

Matrix Spike (B3F2102-MS1)

Source: Y306510-01

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	12.7	0.0935	mg/kg	4.67	6.84	125	75-125			
Barium	545	9.35	"	467	47.4	106	75-125			
Cadmium	5.09	0.0935	"	4.67	0.384	101	75-125			
Copper	63.2	9.35	"	46.7	14.8	104	75-125			
Selenium	4.73	0.0935	"	4.67	0.260	95.6	75-125			

Matrix Spike Dup (B3F2102-MSD1)

Source: Y306510-01

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	12.9	0.0861	mg/kg	4.30	6.84	141	75-125	1.76	20	QM-07
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Metals by EPA 6000/7000 Series Methods - 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 B3F2102 - EPA 3050B

Matrix Spike Dup (B3F2102-MSD1)		Source: Y306510-01			Prepared: 06/21/2023 Analyzed: 06/23/2023					
Barium	517	8.61	mg/kg	430	47.4	109	75-125	5.31	20	
Cadmium	4.86	0.0861	"	4.30	0.384	104	75-125	4.55	20	
Copper	59.8	8.61	"	43.0	14.8	105	75-125	5.57	20	
Selenium	4.41	0.0861	"	4.30	0.260	96.3	75-125	7.05	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3F2032 - EPA 3580

Blank (B3F2032-BLK1)

Prepared: 06/20/2023 Analyzed: 06/21/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Nitrobenzene-d5	170		ug/kg	200		82.5	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		106	60-130			
Surrogate: Terphenyl-d14	180		"	200		90.3	60-130			

LCS (B3F2032-BS1)

Prepared: 06/20/2023 Analyzed: 06/21/2023

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.216	0.002	"	0.200		108	70-130			
Acenaphthene	0.202	0.020	"	0.200		101	70-130			
Anthracene	0.198	0.020	"	0.200		98.9	70-130			
Benzo (a) anthracene	0.191	0.005	"	0.200		95.5	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3F2032 - EPA 3580

LCS (B3F2032-BS1)

Prepared: 06/20/2023 Analyzed: 06/21/2023

Benzo (a) pyrene	0.199	0.020	mg/kg	0.200		99.7	70-130
Benzo (b) fluoranthene	0.196	0.020	"	0.200		97.9	70-130
Benzo (g,h,i) perylene	0.165	0.020	"	0.200		82.4	70-130
Benzo (k) fluoranthene	0.210	0.020	"	0.200		105	70-130
Chrysene	0.186	0.020	"	0.200		92.8	70-130
Dibenz (a,h) anthracene	0.161	0.020	"	0.200		80.7	70-130
Fluoranthene	0.225	0.020	"	0.200		113	70-130
Fluorene	0.222	0.020	"	0.200		111	70-130
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		84.8	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.218	0.020	"	0.200		109	70-130
Pyrene	0.197	0.020	"	0.200		98.3	70-130
Surrogate: Nitrobenzene-d5	170		ug/kg	200		83.9	60-130
Surrogate: 2-Fluorobiphenyl	210		"	200		103	60-130
Surrogate: Terphenyl-dl4	190		"	200		93.7	60-130

Matrix Spike (B3F2032-MS1)

Source: Y306504-01

Prepared: 06/20/2023 Analyzed: 06/21/2023

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	0.001	108	70-130
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130
Anthracene	0.197	0.020	"	0.200	ND	98.4	70-130
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130
Benzo (a) pyrene	0.189	0.020	"	0.200	0.001	94.1	70-130
Benzo (b) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130
Benzo (g,h,i) perylene	0.168	0.020	"	0.200	ND	83.9	70-130
Benzo (k) fluoranthene	0.195	0.020	"	0.200	ND	97.6	70-130
Chrysene	0.206	0.020	"	0.200	ND	103	70-130

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Project: KMG - HSR - Fed 11-36 Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3F2032 - EPA 3580

Matrix Spike (B3F2032-MS1)		Source: Y306504-01			Prepared: 06/20/2023 Analyzed: 06/21/2023					
Dibenz (a,h) anthracene	0.171	0.020	mg/kg	0.200	ND	85.5	70-130			
Fluoranthene	0.221	0.020	"	0.200	ND	111	70-130			
Fluorene	0.218	0.020	"	0.200	ND	109	70-130			
Indeno (1,2,3-cd) pyrene	0.168	0.020	"	0.200	0.004	82.1	70-130			
Naphthalene	0.198	0.002	"	0.200	0.001	98.3	70-130			
Phenanthrene	0.205	0.020	"	0.200	ND	103	70-130			
Pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Surrogate: Nitrobenzene-d5	170		ug/kg	200		84.9	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		102	60-130			
Surrogate: Terphenyl-d14	200		"	200		101	60-130			

Matrix Spike Dup (B3F2032-MSD1)		Source: Y306504-01			Prepared: 06/20/2023 Analyzed: 06/21/2023					
1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	0.001	104	70-130	3.53	20	
2-Methylnaphthalene	0.214	0.002	"	0.200	ND	107	70-130	1.43	20	
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130	3.98	20	
Anthracene	0.200	0.020	"	0.200	ND	100	70-130	1.84	20	
Benzo (a) anthracene	0.209	0.005	"	0.200	ND	105	70-130	0.897	20	
Benzo (a) pyrene	0.187	0.020	"	0.200	0.001	92.9	70-130	1.22	20	
Benzo (b) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	1.17	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.7	70-130	13.1	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	5.18	20	
Chrysene	0.213	0.020	"	0.200	ND	107	70-130	3.40	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.5	70-130	15.1	20	
Fluoranthene	0.219	0.020	"	0.200	ND	110	70-130	0.888	20	
Fluorene	0.206	0.020	"	0.200	ND	103	70-130	5.42	20	
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	0.004	94.3	70-130	13.5	20	
Naphthalene	0.195	0.002	"	0.200	0.001	97.0	70-130	1.25	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3F2032 - EPA 3580

Matrix Spike Dup (B3F2032-MSD1)		Source: Y306504-01			Prepared: 06/20/2023 Analyzed: 06/21/2023					
Phenanthrene	0.203	0.020	mg/kg	0.200	ND	101	70-130	1.28	20	
Pyrene	0.206	0.020	"	0.200	ND	103	70-130	1.89	20	
Surrogate: Nitrobenzene-d5	170		ug/kg	200		85.3	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		99.8	60-130			
Surrogate: Terphenyl-d14	200		"	200		100	60-130			

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Classical Chemistry Parameters - 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 B3F2112 - DTPA Sorbitol Preparation

Blank (B3F2112-BLK1)

Prepared: 06/21/2023 Analyzed: 06/22/2023

Boron	ND	0.100	mg/kg							U
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Duplicate (B3F2112-DUP1)

Source: Y306515-10

Prepared: 06/21/2023 Analyzed: 06/22/2023

Boron	0.0313	0.0990	mg/kg		0.0298			4.71	50	U
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Batch B3F2117 - Saturated Paste Metals

Blank (B3F2117-BLK1)

Prepared: 06/21/2023 Analyzed: 06/22/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B3F2117-DUP1)

Source: Y306515-08

Prepared: 06/21/2023 Analyzed: 06/22/2023

SAR	0.00		SAR	1.66			200	200		U
Calcium PPM	46.0	10.0	mg/L	51.2			10.7	50		
Magnesium PPM	10.2	10.0	"	11.0			7.63	50		
Sodium PPM	47.6	10.0	"	50.3			5.39	50		

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Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2122 - Saturated Paste pH/EC										
Blank (B3F2122-BLK1)					Prepared: 06/21/2023 Analyzed: 06/22/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3F2122-DUP1)					Source: Y306515-08 Prepared: 06/21/2023 Analyzed: 06/22/2023					
pH	8.19		pH Units		8.31			1.45	25	
Specific Conductance (EC)	0.600	0.00500	mmhos/cm		0.628			4.46	25	

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Project: KMG - HSR - Fed 11-36 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
Batch L690041 -										
DUP (L 90381-DUP)		Source: 90381			Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 90381-MS)		Source: 90381			Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	16	2.5	mg/Kg	39.2	<1.22	41	75-125			*
LCS (LCS)					Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	7.02	0.5	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Notes and Definitions

U Sample is Non-Detect.

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

* 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.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

July 31, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - HSR - Fed 11-36 Wellhead Project Number - 09A1417382

Attached are your analytical results for KMG - HSR - Fed 11-36 Wellhead received by Origins Laboratory, Inc. July 19, 2023. This project is associated with Origins project number Y307410-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6.5'	Y307410-01	Soil	July 19, 2023 11:30	07/19/2023 18:00
WH01-RISER@5'	Y307410-02	Soil	July 19, 2023 11:40	07/19/2023 18:00
N01@3'	Y307410-03	Soil	July 19, 2023 11:45	07/19/2023 18:00
E01@3'	Y307410-04	Soil	July 19, 2023 11:50	07/19/2023 18:00
S01@3'	Y307410-05	Soil	July 19, 2023 11:55	07/19/2023 18:00
SEP01-RISER@4'	Y307410-06	Soil	July 19, 2023 14:45	07/19/2023 18:00
NATIVE-BG05@3'	Y307410-07	Soil	July 19, 2023 12:15	07/19/2023 18:00
NATIVE-BG05@6'	Y307410-08	Soil	July 19, 2023 12:20	07/19/2023 18:00
NATIVE-BG06@3'	Y307410-09	Soil	July 19, 2023 12:30	07/19/2023 18:00
NATIVE-BG06@6'	Y307410-10	Soil	July 19, 2023 12:35	07/19/2023 18:00
NATIVE-BG07@3'	Y307410-11	Soil	July 19, 2023 12:45	07/19/2023 18:00
NATIVE-BG07@6'	Y307410-12	Soil	July 19, 2023 12:50	07/19/2023 18:00
NATIVE-BG08@3'	Y307410-13	Soil	July 19, 2023 13:00	07/19/2023 18:00
NATIVE-BG08@6'	Y307410-14	Soil	July 19, 2023 13:05	07/19/2023 18:00

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

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

ORIGINS
LABORATORY, INC

Impacted

U3074110

page 1 of 2

www.originslaboratory.com

Client: Ensolum

Address:

Project Manager: Jeremy Espinoza

Project Name: HSR - Fed 11-36 Wellhead

Project Number: 09A1417382

Telephone Number:

Email Address: KMG Team

Samples Collected By: JH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃		Other	Groundwater	Soil	
B0106.5'	7/19/23	1130	3	X							
W01-RISER05'		1140						X	X	X	
N0103'		1145						X	X	X	
E0103'		1150						X	X	X	
S0103'		1155						X	X	X	
SEP01-RISER04'		1445						X	X	X	
B01-NATIVE-BG0503'		1215	2								
NATIVE-BG0506'		1220									
NATIVE-BG0603'		1230									
NATIVE-BG0606'		1235									
Relinquished By: J. H. H.	Date: 7/19/23	Time: 1800									
Relinquished By:	Date:	Time:									
Received By: CHS	Date: 7/19/23	Time: 1800									
Received By:	Date:	Time:									
Turnaround Time:											
Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>											
48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>											
Standard <input type="checkbox"/>											

Temp Received: 9.5

Date Results Needed

Origins Laboratory, Inc.

J. Bynon

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4307410

Client: Ensolum

Client Project ID: Fed 11-36 WH

Checklist Completed by: EHS

Shipped Via: 410

Date/time completed: 7/19/23

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1 18.5 °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"/>		<u>SD</u>
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"/>		
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.

Jeremy Espinoza
Reviewed by (Project Manager)

7/19/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

B01@6.5'

7/19/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B3G2022	07/20/2023	07/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1933	07/19/2023	07/20/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	113 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1934	07/19/2023	07/20/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	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

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

B01@6.5'

7/19/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	B3G19 34	07/19/2023	07/20/2023
Surrogate: Toluene-d8	94.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	85.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.85	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.45	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.75	pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	1.30	SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.506	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.22	0.0937	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	54.7	9.37	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

B01@6.5'

7/19/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND	0.0937	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Copper	ND	9.37	"	"	"	"	07/24/2023
Lead	21.7	9.37	"	"	"	"	07/21/2023
Nickel	ND	9.37	"	"	"	"	07/24/2023
Selenium	ND	0.0937	"	"	"	"	"
Silver	ND	0.0937	"	"	"	"	07/21/2023
Zinc	ND	93.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L694400	07/19/2023	07/24/2023
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

WH01-RISER@5'

7/19/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307410-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3G2022	07/20/2023	07/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1933	07/19/2023	07/20/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1934	07/19/2023	07/20/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

WH01-RISER@5'

7/19/2023 11:40:00AM

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

Y307410-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	B3G19 34	07/19/2023	07/20/2023
Surrogate: Toluene-d8	89.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	86.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.641	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.52	pH Units	1	B3G209	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.471	SAR	1	B3G203	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.212	0.00500	mmhos/cm	1	B3G209	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.06	0.0857	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	31.6	8.57	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

WH01-RISER@5'

7/19/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND	0.0857	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Copper	ND	8.57	"	"	"	"	07/24/2023
Lead	ND	8.57	"	"	"	"	07/21/2023
Nickel	ND	8.57	"	"	"	"	07/24/2023
Selenium	ND	0.0857	"	"	"	"	"
Silver	ND	0.0857	"	"	"	"	07/21/2023
Zinc	ND	85.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L694652	07/19/2023	07/25/2023
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Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

N01@3'

7/19/2023 11:45:00AM

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

Y307410-03 (Soil)

pH in Soil by 9045D

pH	7.53		pH Units	1	B3G2030	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.12	0.0910	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	35.8	9.10	"	"	"	"	"
Cadmium	ND	0.0910	"	"	"	"	"
Lead	ND	9.10	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

E01@3'

7/19/2023 11:50:00AM

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

Y307410-04 (Soil)

pH in Soil by 9045D

pH	7.72		pH Units	1	B3G2030	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.42	0.0948	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	41.1	9.48	"	"	"	"	"
Cadmium	ND	0.0948	"	"	"	"	"
Lead	ND	9.48	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

S01@3'

7/19/2023 11:55:00AM

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

Y307410-05 (Soil)

pH in Soil by 9045D

pH	8.00		pH Units	1	B3G2030	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.16	0.0881	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	62.0	8.81	"	"	"	"	"
Cadmium	ND	0.0881	"	"	"	"	"
Lead	14.2	8.81	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

SEP01-RISER@4'

7/19/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307410-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3G2022	07/20/2023	07/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1933	07/19/2023	07/20/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	118 %	50-150		"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1934	07/19/2023	07/20/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

SEP01-RISER@4'

7/19/2023 2:45:00PM

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

Y307410-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B3G19 34	07/19/2023	07/20/2023	
Surrogate: Toluene-d8	94.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.22		0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B3G2029	07/20/2023	07/21/2023	
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SAR by 20B Saturated Paste

SAR	0.213			SAR	1	B3G2023	07/20/2023	07/21/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.203		0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023	
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG05@3'
7/19/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.670	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.78		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.225		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.148	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.23	0.0955	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	46.2	9.55	"	"	"	"	"
Cadmium	ND	0.0955	"	"	"	"	"

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG05@3'**7/19/2023 12:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-07 (Soil)**Table 915 metals by EPA 6020B**

Copper	ND	9.55	mg/kg	10	B3G2003	07/20/2023	07/24/2023
Lead	ND	9.55	"	"	"	"	07/21/2023
Nickel	ND	9.55	"	"	"	"	07/24/2023
Selenium	ND	0.0955	"	"	"	"	"
Silver	ND	0.0955	"	"	"	"	07/21/2023
Zinc	ND	95.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L694652	07/19/2023	07/25/2023
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG05@6'

7/19/2023 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307410-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.514	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.68		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.132		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.156	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.33	0.0913	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	39.1	9.13	"	"	"	"	"
Cadmium	ND	0.0913	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG05@6'

7/19/2023 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307410-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.13	mg/kg	10	B3G2003	07/20/2023	07/24/2023
Lead	ND	9.13	"	"	"	"	07/21/2023
Nickel	ND	9.13	"	"	"	"	07/24/2023
Selenium	ND	0.0913	"	"	"	"	"
Silver	ND	0.0913	"	"	"	"	07/21/2023
Zinc	ND	91.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L694652	07/19/2023	07/25/2023
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG06@3'
7/19/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.111	0.0990	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.577	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.10		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.111		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.119	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.34	0.0878	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	40.9	8.78	"	"	"	"	"
Cadmium	ND	0.0878	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG06@3'**7/19/2023 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-09 (Soil)**Table 915 metals by EPA 6020B**

Copper	ND		8.78	mg/kg	10	B3G2003	07/20/2023	07/24/2023	
Lead	ND		8.78	"	"	"	"	07/21/2023	
Nickel	ND		8.78	"	"	"	"	07/24/2023	
Selenium	ND		0.0878	"	"	"	"	"	
Silver	ND		0.0878	"	"	"	"	07/21/2023	
Zinc	ND		87.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L694652	07/19/2023	07/25/2023	
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG06@6'
7/19/2023 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.772	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.85		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	1.37		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.148	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.14	0.0932	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	39.4	9.32	"	"	"	"	"
Cadmium	ND	0.0932	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG06@6'
7/19/2023 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-10 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.32	mg/kg	10	B3G2003	07/20/2023	07/24/2023
Lead	ND	9.32	"	"	"	"	07/21/2023
Nickel	ND	9.32	"	"	"	"	07/24/2023
Selenium	ND	0.0932	"	"	"	"	"
Silver	ND	0.0932	"	"	"	"	07/21/2023
Zinc	ND	93.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L694652	07/19/2023	07/25/2023
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG07@3'
7/19/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0981	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.31		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.158		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0992	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.05	0.0841	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	35.1	8.41	"	"	"	"	"
Cadmium	ND	0.0841	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG07@3'

7/19/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307410-11 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.41	mg/kg	10	B3G2003	07/20/2023	07/24/2023
Lead	ND	8.41	"	"	"	"	07/21/2023
Nickel	ND	8.41	"	"	"	"	07/24/2023
Selenium	ND	0.0841	"	"	"	"	"
Silver	ND	0.0841	"	"	"	"	07/21/2023
Zinc	ND	84.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L695483	07/19/2023	07/28/2023
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG07@6'

7/19/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307410-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.24		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.326		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0636	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.18	0.0892	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	43.4	8.92	"	"	"	"	"
Cadmium	ND	0.0892	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG07@6'

7/19/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.92	mg/kg	10	B3G2003	07/20/2023	07/24/2023
Lead	ND	8.92	"	"	"	"	07/21/2023
Nickel	ND	8.92	"	"	"	"	07/24/2023
Selenium	ND	0.0892	"	"	"	"	"
Silver	ND	0.0892	"	"	"	"	07/21/2023
Zinc	ND	89.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L694652	07/19/2023	07/25/2023
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG08@3'
7/19/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.20		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.184		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0358	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	1.04	0.0909	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	30.4	9.09	"	"	"	"	"
Cadmium	ND	0.0909	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG08@3'**7/19/2023 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-13 (Soil)**Table 915 metals by EPA 6020B**

Copper	ND		9.09	mg/kg	10	B3G2003	07/20/2023	07/24/2023	
Lead	ND		9.09	"	"	"	"	07/21/2023	
Nickel	ND		9.09	"	"	"	"	07/24/2023	
Selenium	ND		0.0909	"	"	"	"	"	
Silver	ND		0.0909	"	"	"	"	07/21/2023	
Zinc	ND		90.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L694652	07/19/2023	07/25/2023	
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG08@6'
7/19/2023 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0982	mg/L	1	B3G2022	07/20/2023	07/21/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/20/2023	07/21/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.30		pH Units	1	B3G2029	07/20/2023	07/21/2023
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SAR by 20B Saturated Paste

SAR	0.526		SAR	1	B3G2023	07/20/2023	07/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0394	0.00500	mmhos/cm	1	B3G2029	07/20/2023	07/21/2023
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Table 915 metals by EPA 6020B

Arsenic	3.27	0.0881	mg/kg	10	B3G2003	07/20/2023	07/21/2023
Barium	37.7	8.81	"	"	"	"	"
Cadmium	0.133	0.0881	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

NATIVE-BG08@6'
7/19/2023 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307410-14 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.81	mg/kg	10	B3G2003	07/20/2023	07/24/2023	
Lead	ND		8.81	"	"	"	"	07/21/2023	
Nickel	ND		8.81	"	"	"	"	07/24/2023	
Selenium	ND		0.0881	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	07/21/2023	
Zinc	ND		88.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L694652	07/19/2023	07/25/2023	
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Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch B3G1933 - EPA 3550B										
Blank (B3G1933-BLK1)					Prepared: 07/19/2023 Analyzed: 07/19/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		116	50-150			

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Project: KMG - HSR - Fed 11-36 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
Batch B3G1933 - EPA 3550B										
LCS (B3G1933-BS1)					Prepared: 07/19/2023 Analyzed: 07/19/2023					
Diesel (C10-C28)	771	50.0	mg/kg	1000		77.1	70-130			
Residual Range Organics (C28-C40)	924	200	"	1000		92.4	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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Project: KMG - HSR - Fed 11-36 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 B3G1933 - EPA 3550B

Matrix Spike (B3G1933-MS1)		Source: Y307403-01			Prepared: 07/19/2023 Analyzed: 07/20/2023					
Diesel (C10-C28)	783	50.0	mg/kg	1000	ND	78.3	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000	ND	93.1	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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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 B3G1933 - EPA 3550B										
Matrix Spike Dup (B3G1933-MSD1)		Source: Y307403-01			Prepared: 07/19/2023 Analyzed: 07/20/2023					
Diesel (C10-C28)	783	50.0	mg/kg	1000	ND	78.3	70-130	0.0835	35	
Residual Range Organics (C28-C40)	952	200	"	1000	ND	95.2	70-130	2.19	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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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 B3G1934 - EPA 5030 (soil)										
Blank (B3G1934-BLK1)					Prepared: 07/19/2023 Analyzed: 07/19/2023					
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	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	85.7		70-130			

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Project: KMG - HSR - Fed 11-36 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
Batch B3G1934 - EPA 5030 (soil)										
LCS (B3G1934-BS1)					Prepared: 07/19/2023 Analyzed: 07/19/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.0957	0.00200	"	0.100		95.7	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.126	0.00380	"	0.100		126	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.3	70-130			

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Project: KMG - HSR - Fed 11-36 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
Batch B3G1934 - EPA 5030 (soil)										
Matrix Spike (B3G1934-MS1)		Source: Y307404-01			Prepared: 07/19/2023 Analyzed: 07/19/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.126	0.00380	"	0.100	ND	126	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.205	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

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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
Batch B3G1934 - EPA 5030 (soil)										
Matrix Spike Dup (B3G1934-MSD1)	Source: Y307404-01				Prepared: 07/19/2023 Analyzed: 07/19/2023					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	0.798	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	0.210	20	
Benzene	0.0967	0.00200	"	0.100	ND	96.7	70-130	0.145	20	
Ethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130	1.65	20	
Naphthalene	0.134	0.00380	"	0.100	ND	134	70-130	6.18	20	QM-07
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	3.13	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	0.00	20	
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130	2.10	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.0	70-130			

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Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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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Metals by EPA 6000/7000 Series Methods - 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 B3G2003 - EPA 3050B

Blank (B3G2003-BLK1)

Prepared: 07/20/2023 Analyzed: 07/21/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3G2003-BS1)

Prepared: 07/20/2023 Analyzed: 07/21/2023

Arsenic	0.0575	0.000100	mg/kg	0.0500	115	80-120
Barium	5.25	0.0100	"	5.00	105	80-120
Cadmium	0.0562	0.000100	"	0.0500	112	80-120
Copper	0.515	0.0100	"	0.500	103	80-120
Lead	0.0531	0.0100	"	0.0500	106	80-120
Nickel	0.0544	0.0100	"	0.0500	109	80-120
Selenium	0.0577	0.000100	"	0.0500	115	80-120
Silver	0.0587	0.000100	"	0.0500	117	80-120
Zinc	0.588	0.100	"	0.500	118	80-120

Matrix Spike (B3G2003-MS1)

Source: Y307409-16

Prepared: 07/20/2023 Analyzed: 07/21/2023

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Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Metals by EPA 6000/7000 Series Methods - 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 B3G2003 - EPA 3050B

Matrix Spike (B3G2003-MS1)		Source: Y307409-16			Prepared: 07/20/2023 Analyzed: 07/21/2023					
Arsenic	8.32	0.0950	mg/kg	4.75	3.49	102	75-125			
Barium	543	9.50	"	475	81.7	97.1	75-125			
Cadmium	5.26	0.0950	"	4.75	0.132	108	75-125			
Copper	60.6	9.50	"	47.5	7.23	112	75-125			
Lead	12.0	9.50	"	4.75	7.71	89.6	75-125			
Nickel	13.2	9.50	"	4.75	9.21	83.5	75-125			
Selenium	4.75	0.0950	"	4.75	0.130	97.3	75-125			
Silver	5.48	0.0950	"	4.75	0.0296	115	75-125			
Zinc	87.4	95.0	"	47.5	40.2	99.3	75-125			
Matrix Spike Dup (B3G2003-MSD1)		Source: Y307409-16			Prepared: 07/20/2023 Analyzed: 07/21/2023					
Arsenic	8.50	0.0888	mg/kg	4.44	3.49	113	75-125	2.11	20	
Barium	551	8.88	"	444	81.7	106	75-125	1.44	20	
Cadmium	5.17	0.0888	"	4.44	0.132	114	75-125	1.63	20	
Copper	58.9	8.88	"	44.4	7.23	116	75-125	2.79	20	
Lead	15.3	8.88	"	4.44	7.71	172	75-125	24.7	20	QM-07
Nickel	13.1	8.88	"	4.44	9.21	88.3	75-125	0.345	20	
Selenium	4.87	0.0888	"	4.44	0.130	107	75-125	2.46	20	
Silver	5.40	0.0888	"	4.44	0.0296	121	75-125	1.43	20	
Zinc	88.4	88.8	"	44.4	40.2	108	75-125	1.16	20	

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Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Classical Chemistry Parameters - 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 B3G2022 - DTPA Sorbitol Preparation

Blank (B3G2022-BLK1)

Prepared: 07/20/2023 Analyzed: 07/21/2023

Boron ND 0.100 mg/L

Duplicate (B3G2022-DUP1)

Source: Y307409-19

Prepared: 07/20/2023 Analyzed: 07/21/2023

Boron 0.121 0.0995 mg/L 0.134 9.57 50

Batch B3G2023 - Saturated Paste Metals

Blank (B3G2023-BLK1)

Prepared: 07/20/2023 Analyzed: 07/21/2023

SAR 0.00 SAR
Calcium PPM ND 10.0 mg/L
Magnesium PPM ND 10.0 "
Sodium PPM ND 10.0 "

Duplicate (B3G2023-DUP1)

Source: Y307409-21

Prepared: 07/20/2023 Analyzed: 07/21/2023

SAR 0.00 SAR 2.13 200 200
Calcium PPM 31.0 10.0 mg/L 26.6 15.4 50
Magnesium PPM 9.09 10.0 " 7.81 15.1 50
Sodium PPM 55.0 10.0 " 48.5 12.5 50

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Project: KMG - HSR - Fed 11-36 Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G2029 - Saturated Paste pH/EC										
Blank (B3G2029-BLK1)					Prepared: 07/20/2023 Analyzed: 07/21/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3G2029-DUP1)					Source: Y307409-21 Prepared: 07/20/2023 Analyzed: 07/21/2023					
Specific Conductance (EC)	0.514	0.00500	mmhos/cm		0.458			11.5	25	
pH	8.16		pH Units		8.24			0.976	25	
Batch B3G2030 - Saturated Paste pH/EC										
Duplicate (B3G2030-DUP1)					Source: Y307397-01 Prepared: 07/20/2023 Analyzed: 07/21/2023					
pH	6.09		pH Units		6.07			0.329	25	

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Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch L694652 -										
DUP (L 84023-DUP)	Source: Y307410-12				Prepared: Analyzed: 07/25/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 84023-MS)	Source: Y307410-12				Prepared: Analyzed: 07/25/2023					
Chromium, Hexavalent	32.6	2.5	mg/Kg	39	<1.22	84	75-125			
LCS (LCS)	Prepared: Analyzed: 07/25/2023									
Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch L695483 -										
DUP (L 85157-DUP)	Source: 85157				Prepared: Analyzed: 07/28/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85157-MS)	Source: 85157				Prepared: Analyzed: 07/28/2023					
Chromium, Hexavalent	36.7	2.57	mg/Kg	41.2	<1.25	89	75-125			
LRB (LRB)					Prepared: Analyzed: 07/28/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 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
Batch L694400 -										
DUP (L 83971-DUP)		Source: 83971			Prepared: Analyzed: 07/24/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 83971-MS)		Source: 83971			Prepared: Analyzed: 07/24/2023					
Chromium, Hexavalent	36.8	2.53	mg/Kg	40.5	<1.23	91	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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.

August 30, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - HSR - Fed 11-36 Wellhead Project Number - 09A1417382

Attached are your analytical results for KMG - HSR - Fed 11-36 Wellhead received by Origins Laboratory, Inc. August 23, 2023. This project is associated with Origins project number Y308594-01.

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



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@9'	Y308594-01	Soil	August 23, 2023 9:30	08/23/2023 13:47
S02@3'	Y308594-02	Soil	August 23, 2023 9:35	08/23/2023 13:47

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1307594

Client: Ensolum

Client Project ID: HSR-Fed 11-36 WH

Checklist Completed by: TST/CHS

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

Date/time completed: 8/23/23

Airbill #: N/A

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

Cooler Number/Temperature: 1/4 °C 1 °C 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) 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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) [Signature]

8/23/23
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

B02@9'

8/23/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308594-01 (Soil)

pH in Soil by 9045D

pH	8.27	pH Units	1	B3H2425	HJD	08/24/2023	08/25/2023
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Table 915 metals by EPA 6020B

Arsenic	1.39	0.0919	mg/kg	10	B3H2328	CIH	08/23/2023	08/25/2023
Barium	53.9	9.19	"	"	"	CIH	"	"
Cadmium	ND	0.0919	"	"	"	CIH	"	"
Lead	ND	9.19	"	"	"	CIH	"	"

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

S02@3'

8/23/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308594-02 (Soil)

pH in Soil by 9045D

pH	8.39	pH Units	1	B3H2425	HJD	08/24/2023	08/25/2023
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Table 915 metals by EPA 6020B

Arsenic	1.32	0.0960	mg/kg	10	B3H2328	CIH	08/23/2023	08/25/2023
Barium	33.6	9.60	"	"	"	CIH	"	"
Cadmium	ND	0.0960	"	"	"	CIH	"	"
Lead	19.6	9.60	"	"	"	CIH	"	"

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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Metals by EPA 6000/7000 Series Methods - 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 B3H2328 - EPA 3050B

Blank (B3H2328-BLK1)

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3H2328-BS1)

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	0.0480	0.000100	mg/kg	0.0500	96.0	80-120
Barium	4.85	0.0100	"	5.00	97.1	80-120
Cadmium	0.0489	0.000100	"	0.0500	97.8	80-120
Copper	0.508	0.0100	"	0.500	102	80-120
Lead	0.0473	0.0100	"	0.0500	94.7	80-120
Nickel	0.0465	0.0100	"	0.0500	93.1	80-120
Selenium	0.0468	0.000100	"	0.0500	93.6	80-120
Silver	0.0487	0.000100	"	0.0500	97.4	80-120
Zinc	0.485	0.100	"	0.500	97.0	80-120

Matrix Spike (B3H2328-MS1)

Source: Y308542-03

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	8.41	0.0941	mg/kg	4.70	4.50	83.2	75-125
Barium	520	9.41	"	470	109	87.3	75-125
Cadmium	4.48	0.0941	"	4.70	0.0884	93.4	75-125
Copper	49.8	9.41	"	47.0	6.10	93.0	75-125
Lead	12.6	9.41	"	4.70	8.45	88.1	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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2328 - EPA 3050B										
Matrix Spike (B3H2328-MS1)		Source: Y308542-03			Prepared: 08/23/2023 Analyzed: 08/25/2023					
Nickel	11.7	9.41	mg/kg	4.70	8.34	72.5	75-125			QM-07
Selenium	3.50	0.0941	"	4.70	0.0705	72.9	75-125			QM-07
Silver	4.38	0.0941	"	4.70	0.0338	92.4	75-125			
Zinc	84.4	94.1	"	47.0	43.5	87.1	75-125			
Matrix Spike Dup (B3H2328-MSD1)		Source: Y308542-03			Prepared: 08/23/2023 Analyzed: 08/25/2023					
Arsenic	8.66	0.0885	mg/kg	4.42	4.50	94.2	75-125	2.99	20	
Barium	490	8.85	"	442	109	86.0	75-125	5.92	20	
Cadmium	4.26	0.0885	"	4.42	0.0884	94.3	75-125	5.05	20	
Copper	48.3	8.85	"	44.2	6.10	95.3	75-125	3.20	20	
Lead	12.4	8.85	"	4.42	8.45	89.8	75-125	1.37	20	
Nickel	11.5	8.85	"	4.42	8.34	72.2	75-125	1.86	20	QM-07
Selenium	3.27	0.0885	"	4.42	0.0705	72.4	75-125	6.67	20	QM-07
Silver	4.28	0.0885	"	4.42	0.0338	95.9	75-125	2.38	20	
Zinc	84.7	88.5	"	44.2	43.5	93.2	75-125	0.280	20	

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

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 B3H2425 - Saturated Paste pH/EC

Duplicate (B3H2425-DUP1)

Source: Y308601-01

Prepared: 08/24/2023 Analyzed: 08/25/2023

pH	5.78		pH Units	5.65		2.27	25
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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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

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 recovery.

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.



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.

September 21, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - HSR - Fed 11-36 Wellhead Project Number - 09A1417382

Attached are your analytical results for KMG - HSR - Fed 11-36 Wellhead received by Origins Laboratory, Inc. September 15, 2023. This project is associated with Origins project number Y309283-01.

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



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S03@3'	Y309283-01	Soil	September 14, 2023 8:05	09/15/2023 11:48

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4304283

Client: Ensolum

Client Project ID: Fed 11-36 WH

Checklist Completed by: EHS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/14/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.5 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

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"/>			
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.

Jeremy Espinoza
Reviewed by (Project Manager)

9/14/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

S03@3'

9/14/2023 8:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309283-01 (Soil)

pH in Soil by 9045D

pH	7.97	pH Units	1	B3I1612	ACN	09/16/2023	09/17/2023
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Table 915 metals by EPA 6020B

Arsenic	0.959	0.0884	mg/kg	10	B3I1520	CIH	09/15/2023	09/18/2023
Barium	32.8	8.84	"	"	"	CIH	"	"
Cadmium	ND	0.0884	"	"	"	CIH	"	"
Lead	ND	8.84	"	"	"	CIH	"	"

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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Metals by EPA 6000/7000 Series Methods - 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 B3I1520 - EPA 3050B

Blank (B3I1520-BLK1)

Prepared: 09/15/2023 Analyzed: 09/18/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3I1520-BS1)

Prepared: 09/15/2023 Analyzed: 09/18/2023

Arsenic	0.0463	0.000100	mg/kg	0.0500	92.6	80-120
Barium	4.96	0.0100	"	5.00	99.1	80-120
Cadmium	0.0498	0.000100	"	0.0500	99.5	80-120
Copper	0.508	0.0100	"	0.500	102	80-120
Lead	0.0476	0.0100	"	0.0500	95.2	80-120
Nickel	0.0499	0.0100	"	0.0500	99.8	80-120
Selenium	0.0501	0.000100	"	0.0500	100	80-120
Silver	0.0513	0.000100	"	0.0500	103	80-120
Zinc	0.463	0.100	"	0.500	92.5	80-120

Matrix Spike (B3I1520-MS1)

Source: Y309289-21

Prepared: 09/15/2023 Analyzed: 09/18/2023

Arsenic	8.61	0.0929	mg/kg	4.64	4.80	82.1	75-125
Barium	640	9.29	"	464	187	97.5	75-125
Cadmium	4.68	0.0929	"	4.64	0.204	96.5	75-125
Copper	50.4	9.29	"	46.4	6.20	95.2	75-125
Lead	14.3	9.29	"	4.64	9.90	95.2	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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Metals by EPA 6000/7000 Series Methods - 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 B3I1520 - EPA 3050B

Matrix Spike (B3I1520-MS1)		Source: Y309289-21			Prepared: 09/15/2023 Analyzed: 09/18/2023					
Nickel	19.3	9.29	mg/kg	4.64	14.1	111	75-125			
Selenium	4.63	0.0929	"	4.64	0.560	87.7	75-125			
Silver	4.57	0.0929	"	4.64	0.0478	97.3	75-125			
Zinc	85.9	92.9	"	46.4	45.6	86.9	75-125			
Matrix Spike Dup (B3I1520-MSD1)		Source: Y309289-21			Prepared: 09/15/2023 Analyzed: 09/18/2023					
Arsenic	8.87	0.0961	mg/kg	4.80	4.80	84.9	75-125	3.03	20	
Barium	637	9.61	"	480	187	93.6	75-125	0.453	20	
Cadmium	4.60	0.0961	"	4.80	0.204	91.5	75-125	1.77	20	
Copper	49.9	9.61	"	48.0	6.20	91.0	75-125	1.04	20	
Lead	14.0	9.61	"	4.80	9.90	85.3	75-125	2.28	20	
Nickel	18.6	9.61	"	4.80	14.1	93.0	75-125	3.67	20	
Selenium	4.56	0.0961	"	4.80	0.560	83.2	75-125	1.62	20	
Silver	4.45	0.0961	"	4.80	0.0478	91.7	75-125	2.57	20	
Zinc	86.6	96.1	"	48.0	45.6	85.4	75-125	0.770	20	

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Ensolum

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

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 B3I1612 - Saturated Paste pH/EC

Duplicate (B3I1612-DUP1)		Source: Y309324-10			Prepared: 09/16/2023 Analyzed: 09/17/2023					
pH	8.02		pH Units		8.06			0.498	25	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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