

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
ANDERS 11-17 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								
FS01@0.5'	6/7/2023	0.5	1.0	NS	NO	40.13656187	-104.80346	N
FS02@0.5'	6/7/2023	0.5	4.6	NS	NO	40.13649277	-104.8033887	N
FS03@0.5'	6/7/2023	0.5	0.3	NS	NO	40.13642873	-104.8034336	N
FS04@0.5'	6/7/2023	0.5	0.2	NS	NO	40.1364916	-104.8035589	N
N Wall	6/7/2023	6	0.0	NS	NO	40.13650091	-104.8034822	N
E Wall	6/7/2023	6	0.0	NS	NO	40.1364928	-104.8034751	N
S Wall	6/7/2023	6	0.0	NS	NO	40.13648448	-104.8034822	N
W Wall	6/7/2023	6	0.0	NS	NO	40.13649225	-104.8034894	N
WH01 RISER@3.5'	6/7/2023	3.5	0.5	NS	NO	40.13648307	-104.8034685	Y
B01@6.5'	6/7/2023	6.5	0.1	NS	NO	40.13649565	-104.8034834	Y
SEPARATOR RISER SAMPLES								
SEP01RISER@5'	6/7/2023	5	85.5	NS	NO	40.13323211	-104.8034118	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	6/8/2023	3	1.7	NS	NO	40.13651465	-104.803837	Y
Native-BG01@6'	6/8/2023	6	1.3	NS	NO	40.13651465	-104.803837	Y
Native-BG02@3'	6/8/2023	3	2.2	NS	NO	40.13666175	-104.8035229	Y
Native-BG02@6'	6/8/2023	6	1.7	NS	NO	40.13666175	-104.8035229	Y
Native-BG03@3'	6/8/2023	3	2.7	NS	NO	40.13637052	-104.8034885	Y
Native-BG03@6'	6/8/2023	6	1.6	NS	NO	40.13637052	-104.8034885	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
ANDERS 11-17 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												
WH01-RISER@3.5'	6/7/2023	3.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B01@6.5'	6/7/2023	6.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR RISER SAMPLES												
SEP01RISER@5'	6/7/2023	5	0.288	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
ANDERS 11-17 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																
WH01-RISER@3.5'	6/7/2023	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@6.5'	6/7/2023	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
SEP01RISER@5'	6/7/2023	5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
ANDERS 11-17 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						
WH01 RISER@3.5'	6/7/2023	3.5	0.400	2.30	8.48*	0.149
B01@6.5'	6/7/2023	6.5	0.414	2.18	8.48*	0.216
SEPARATOR RISER SAMPLES						
SEP01RISER@5'	6/7/2023	5	0.291	0.636	8.44*	<0.101
BACKGROUND SAMPLES						
Native-BG01@3'	6/8/2023	3	0.319	1.93	8.38	0.0525
Native-BG01@6'	6/8/2023	6	0.319	1.93	8.43	0.0701
Native-BG02@3'	6/8/2023	3	0.435	2.25	8.38	0.214
Native-BG02@6'	6/8/2023	6	0.207	1.63	8.54	0.0483
Native-BG03@3'	6/8/2023	3	0.417	2.45	8.27	0.133
Native-BG03@6'	6/8/2023	6	0.174	1.85	8.14	0.0394

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
ANDERS 11-17 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												
WH01-RISER@3.5'	6/7/2023	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@6.5'	6/7/2023	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
SEP01RISER@5'	6/7/2023	5	1.47*	38.9	<0.0952	<0.501	<9.52	<9.52	<9.52	<0.0952	<0.0952	<95.2
BACKGROUND SAMPLES												
Native-BG01@3'	6/8/2023	3	1.27	<9.52	<0.0952	<0.5	<9.52	<9.52	<9.52	<0.0952	<0.0952	<95.2
Native-BG01@6'	6/8/2023	6	0.866	18.5	<0.0881	<0.508	<8.81	<8.81	<8.81	<0.0881	<0.0881	<88.1
Native-BG02@3'	6/8/2023	3	1.75	46.2	<0.0876	<0.51	<8.76	<8.76	<8.76	<0.0876	<0.0876	<87.6
Native-BG02@6'	6/8/2023	6	0.602	14.4	<0.0835	<0.505	<8.35	<8.35	<8.35	<0.0835	<0.0835	<83.5
Native-BG03@3'	6/8/2023	3	1.78	48.4	<0.0964	<0.5	<9.64	<9.64	<9.64	<0.0964	<0.0964	<96.4
Native-BG03@6'	6/8/2023	6	0.589	13	<0.0875	<0.504	<8.75	<8.75	<8.75	<0.0875	<0.0875	<87.5

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
ANDERS 11-17 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 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 and background

June 20, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Anders 11-17 Wellhead

Project Number - 09A1417319

Attached are your analytical results for KMG - Anders 11-17 Wellhead received by Origins Laboratory, Inc. June 07, 2023. This project is associated with Origins project number Y306181-01.

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: 09A1417319

Project: KMG - Anders 11-17 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01 RISER@3.5'	Y306181-01	Soil	June 7, 2023 11:45	06/07/2023 18:03
B01@6.5'	Y306181-02	Soil	June 7, 2023 12:15	06/07/2023 18:03
SEP01RISER@5'	Y306181-03	Soil	June 7, 2023 13:15	06/07/2023 18:03

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: 09A1417319

Project: KMG - Anders 11-17 Wellhead

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4306181

Client: Ensolum

Client Project ID: Anders 11-17 WH

Checklist Completed by: EHS

Shipped Via: Hand Delivered

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

Date/time completed: 6/17/23

Airbill #: N/A

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

Cooler Number/Temperature: 1/1 °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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)

6/17/23
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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

WH01 RISER@3.5'
6/7/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306181-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.149	0.101	mg/L	1	B3F0813	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F0727	06/07/2023	06/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F0731	06/07/2023	06/07/2023	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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

WH01 RISER@3.5'
6/7/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306181-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130	B3F07 31	06/07/2023	06/07/2023
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.09	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B3F0826	06/08/2023	06/09/2023
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SAR by 20B Saturated Paste

SAR	2.30	SAR	1	B3F0822	06/08/2023	06/09/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.400	0.00500	mmhos/cm	1	B3F0826	06/08/2023	06/09/2023
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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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

B01@6.5'
6/7/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306181-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.216	0.100	mg/L	1	B3F0813	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F0727	06/07/2023	06/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F0731	06/07/2023	06/07/2023	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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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

B01@6.5'
6/7/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306181-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130	B3F07 31	06/07/2023	06/07/2023
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.24	0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.03	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B3F0826	06/08/2023	06/09/2023
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SAR by 20B Saturated Paste

SAR	2.18	SAR	1	B3F0822	06/08/2023	06/09/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.414	0.00500	mmhos/cm	1	B3F0826	06/08/2023	06/09/2023
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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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

SEP01RISER@5'

6/7/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306181-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3F0813	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F0727	06/07/2023	06/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %	50-150		"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F0731	06/07/2023	06/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.288	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130		"	"	"
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

SEP01RISER@5'

6/7/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306181-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %	70-130	B3F07 31	06/07/2023	06/07/2023
Surrogate: 4-Bromofluorobenzene	85.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.23	0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023
Magnesium	0.990	0.823	"	"	"	"	"
Sodium	0.671	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688138	06/16/2023	06/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

SEP01RISER@5'

6/7/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y306181-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L688138	06/16/2023	06/17/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.44	pH Units	1	B3F0826	06/08/2023	06/09/2023
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SAR by 20B Saturated Paste

SAR	0.636	SAR	1	B3F0822	06/08/2023	06/09/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.291	0.00500	mmhos/cm	1	B3F0826	06/08/2023	06/09/2023
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Table 915 metals by EPA 6020B

Arsenic	1.47	0.0952	mg/kg	10	B3F0732	06/07/2023	06/08/2023
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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

SEP01RISER@5'
6/7/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306181-03 (Soil)

Table 915 metals by EPA 6020B

Barium	38.9	9.52	mg/kg	10	B3F0732	06/07/2023	06/08/2023
Cadmium	ND	0.0952	"	"	"	"	"
Copper	ND	9.52	"	"	"	"	"
Lead	ND	9.52	"	"	"	"	"
Nickel	ND	9.52	"	"	"	"	"
Selenium	ND	0.0952	"	"	"	"	"
Silver	ND	0.0952	"	"	"	"	"
Zinc	ND	95.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L687804	06/07/2023	06/15/2023
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0727 - EPA 3550B										
Blank (B3F0727-BLK1)					Prepared: 06/07/2023 Analyzed: 06/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	31		"	24.9		126	50-150			

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0727 - EPA 3550B										
LCS (B3F0727-BS1)					Prepared: 06/07/2023 Analyzed: 06/07/2023					
Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0727 - EPA 3550B

Matrix Spike (B3F0727-MS1)		Source: Y306151-01			Prepared: 06/07/2023 Analyzed: 06/07/2023					
Diesel (C10-C28)	1200	50.0	mg/kg	1000	209	98.6	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Project: KMG - Anders 11-17 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 B3F0727 - EPA 3550B										
Matrix Spike Dup (B3F0727-MSD1)		Source: Y306151-01			Prepared: 06/07/2023 Analyzed: 06/07/2023					
Diesel (C10-C28)	1150	50.0	mg/kg	1000	209	93.6	70-130	4.28	35	
Residual Range Organics (C28-C40)	968	200	"	1000	ND	96.8	70-130	5.63	35	
Surrogate: o-Terphenyl	46		"	49.8		93.0	50-150			

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Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0731 - EPA 5030 (soil)										
Blank (B3F0731-BLK1)					Prepared: 06/07/2023 Analyzed: 06/07/2023					
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	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.2	70-130			

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F0731 - EPA 5030 (soil)

LCS (B3F0731-BS1)

Prepared: 06/07/2023 Analyzed: 06/07/2023

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.117	0.00200	"	0.100		117	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	93.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.3		70-130			

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0731 - EPA 5030 (soil)										
Matrix Spike (B3F0731-MS1)	Source: Y306178-01				Prepared: 06/07/2023 Analyzed: 06/07/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Ethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Naphthalene	0.111	0.00380	"	0.100	0.0120	98.7	70-130			
Toluene	0.0902	0.00200	"	0.100	ND	90.2	70-130			
o-Xylene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0731 - EPA 5030 (soil)										
Matrix Spike Dup (B3F0731-MSD1)		Source: Y306178-01			Prepared: 06/07/2023 Analyzed: 06/07/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	4.58	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	3.90	20	
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	1.30	20	
Ethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	0.372	20	
Naphthalene	0.123	0.00380	"	0.100	0.0120	111	70-130	10.3	20	
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130	2.54	20	
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130	0.772	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130	0.0100	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	70-130			

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0732 - EPA 3050B

Blank (B3F0732-BLK1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

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 (B3F0732-BS1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

Arsenic	0.0483	0.000100	mg/kg	0.0500	96.7	80-120
Barium	5.09	0.0100	"	5.00	102	80-120
Cadmium	0.0520	0.000100	"	0.0500	104	80-120
Copper	0.536	0.0100	"	0.500	107	80-120
Lead	0.0524	0.0100	"	0.0500	105	80-120
Nickel	0.0512	0.0100	"	0.0500	102	80-120
Selenium	0.0485	0.000100	"	0.0500	97.0	80-120
Silver	0.0504	0.000100	"	0.0500	101	80-120
Zinc	0.495	0.100	"	0.500	99.1	80-120

Matrix Spike (B3F0732-MS1)

Source: Y306155-01

Prepared: 06/07/2023 Analyzed: 06/08/2023

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0732 - EPA 3050B										
Matrix Spike (B3F0732-MS1)		Source: Y306155-01			Prepared: 06/07/2023 Analyzed: 06/08/2023					
Arsenic	8.39	0.0857	mg/kg	4.28	3.79	107	75-125			
Barium	559	8.57	"	428	134	99.2	75-125			
Cadmium	4.75	0.0857	"	4.28	0.212	106	75-125			
Copper	54.6	8.57	"	42.8	9.55	105	75-125			
Lead	16.5	8.57	"	4.28	9.95	153	75-125			QM-07
Nickel	15.4	8.57	"	4.28	10.1	122	75-125			
Selenium	4.41	0.0857	"	4.28	0.241	97.4	75-125			
Silver	4.32	0.0857	"	4.28	0.0446	99.7	75-125			
Zinc	83.8	85.7	"	42.8	36.6	110	75-125			
Matrix Spike Dup (B3F0732-MSD1)		Source: Y306155-01			Prepared: 06/07/2023 Analyzed: 06/08/2023					
Arsenic	137	0.0942	mg/kg	4.71	3.79	NR	75-125	177	20	QM-07, QR-DUP
Barium	609	9.42	"	471	134	101	75-125	8.55	20	
Cadmium	5.48	0.0942	"	4.71	0.212	112	75-125	14.2	20	
Copper	65.0	9.42	"	47.1	9.55	118	75-125	17.4	20	
Lead	19.0	9.42	"	4.71	9.95	192	75-125	14.0	20	QM-07
Nickel	16.7	9.42	"	4.71	10.1	140	75-125	8.46	20	QM-07
Selenium	4.93	0.0942	"	4.71	0.241	99.6	75-125	11.0	20	
Silver	4.65	0.0942	"	4.71	0.0446	97.8	75-125	7.46	20	
Zinc	92.1	94.2	"	47.1	36.6	118	75-125	9.52	20	

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0813 - DTPA Sorbitol Preparation

Blank (B3F0813-BLK1)

Prepared: 06/08/2023 Analyzed: 06/09/2023

Boron ND 0.100 mg/L

Duplicate (B3F0813-DUP1)

Source: Y306177-01

Prepared: 06/08/2023 Analyzed: 06/09/2023

Boron 0.118 0.102 mg/L 0.114 2.84 50

Batch B3F0822 - Saturated Paste Metals

Blank (B3F0822-BLK1)

Prepared: 06/08/2023 Analyzed: 06/09/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3F0822-DUP1)

Source: Y306138-01

Prepared: 06/08/2023 Analyzed: 06/09/2023

SAR 0.00 SAR 15.1 200 200

Calcium PPM 300 10.0 mg/L 291 2.78 50

Magnesium PPM 65.4 10.0 " 63.2 3.31 50

Sodium PPM 1090 10.0 " 1090 0.392 50

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Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0826 - Saturated Paste pH/EC										
Blank (B3F0826-BLK1)					Prepared: 06/08/2023 Analyzed: 06/09/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3F0826-DUP1)					Source: Y306138-01 Prepared: 06/08/2023 Analyzed: 06/09/2023					
Specific Conductance (EC)	5.80	0.00500	mmhos/cm		6.34			8.90	25	
pH	8.07		pH Units		7.91			2.00	25	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L688138 - 3550B

MSD (L 86795-MSD-L688138)		Source: 86795			Prepared: 06/16/2023 Analyzed: 06/17/2023					
Chrysene	0.114	0.00067	mg/Kg	0.163	0.00128	69.1	30-130	1.7	30	
Acenaphthene	0.108	0.00067	"	0.163	0.00102	65.6	30-130	0.9	30	
Pyrene	0.108	0.00067	"	0.163	0.00178	65.1	30-130	0.9	30	
Naphthalene	0.0999	0.00201	"	0.163	<0.00145	61.2	30-130	0.1	30	
Indeno(1,2,3-cd)pyrene	0.097	0.00067	"	0.163	<0.000627	59.5	30-130	0.2	30	
Fluorene	0.122	0.00067	"	0.163	0.00582	71.2	30-130	0.8	30	
Fluoranthene	0.126	0.00067	"	0.163	0.000892	76.7	30-130	0.7	30	
Dibenz(a,h)anthracene	0.135	0.00067	"	0.163	<0.000614	82.8	30-130	2.2	30	
2-Methylnaphthalene	0.111	0.00201	"	0.163	0.00336	66	30-130	0.8	30	
1-Methylnaphthalene	0.113	0.00201	"	0.163	0.00676	65.1	30-130	0.8	30	
Benzo(a)anthracene	0.112	0.00067	"	0.163	0.000512	68.3	30-130	0.8	30	
Benzo(k)fluoranthene	0.0854	0.00067	"	0.163	<0.000437	52.3	30-130	6	30	
Anthracene	0.118	0.00067	"	0.163	0.000341	72.1	30-130	2.5	30	
Benzo(a)pyrene	0.122	0.00067	"	0.163	<0.000468	74.8	30-130	1.6	30	
Benzo(b)fluoranthene	0.0779	0.00067	"	0.163	0.00065	47.3	30-130	8.4	30	
Surrogate: Nitrobenzene-d5	54.1		"	0.327	200	54.1	29-110			
Surrogate: 2-Fluorobiphenyl	68.8		"	0.327	237	68.8	33-115			
Surrogate: 4-Terphenyl-d14	68.8		"	0.327	231	68.8	33-122			

MS (L 86795-MS-L688138)		Source: 86795			Prepared: 06/16/2023 Analyzed: 06/17/2023					
Dibenz(a,h)anthracene	0.132	0.00067	mg/Kg	0.162	<0.000614	81.4	30-130			
Benzo(k)fluoranthene	0.0907	0.00067	"	0.162	<0.000437	55.9	30-130			
Naphthalene	0.1	0.00201	"	0.162	<0.00145	61.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0972	0.00067	"	0.162	<0.000627	60	30-130			
Fluoranthene	0.125	0.00067	"	0.162	0.000892	76.6	30-130			
Pyrene	0.107	0.00067	"	0.162	0.00178	64.9	30-130			
Chrysene	0.112	0.00067	"	0.162	0.00128	68.3	30-130			

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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L688138 - 3550B

MS (L 86795-MS-L688138)		Source: 86795			Prepared: 06/16/2023 Analyzed: 06/17/2023					
Benzo(a)pyrene	0.12	0.00067	mg/Kg	0.162	<0.000468	74	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.162	0.000512	69.4	30-130			
Anthracene	0.115	0.00067	"	0.162	0.000341	70.7	30-130			
Acenaphthene	0.107	0.00067	"	0.162	0.00102	65.4	30-130			
2-Methylnaphthalene	0.112	0.00201	"	0.162	0.00336	67	30-130			
1-Methylnaphthalene	0.114	0.00201	"	0.162	0.00676	66.1	30-130			
Benzo(b)fluoranthene	0.0716	0.00067	"	0.162	0.00065	43.7	30-130			
Fluorene	0.121	0.00067	"	0.162	0.00582	71	30-130			
Surrogate: Nitrobenzene-d5	57.5		"	0.325	200	57.5	29-110			
Surrogate: 4-Terphenyl-d14	67		"	0.325	231	67	33-122			
Surrogate: 2-Fluorobiphenyl	68		"	0.325	237	68	33-115			

LCS (LCS-L688138)		Prepared: 06/16/2023 Analyzed: 06/17/2023								
Pyrene	0.103	0.00067	mg/Kg	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0793	0.00067	"	0.167		47.4	30-130			
Benzo(k)fluoranthene	0.0893	0.00067	"	0.167		53.4	30-130			
Chrysene	0.108	0.00067	"	0.167		64.6	30-130			
Fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0903	0.00067	"	0.167		54	30-130			
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	30-130			
Dibenz(a,h)anthracene	0.13	0.00067	"	0.167		77.8	30-130			
Naphthalene	0.0942	0.00201	"	0.167		56.4	30-130			
Anthracene	0.112	0.00067	"	0.167		67	30-130			
Acenaphthene	0.0994	0.00067	"	0.167		59.5	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.099	0.00201	"	0.167		59.2	30-130			
Fluorene	0.112	0.00067	"	0.167		67	30-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L688138 - 3550B										
LCS (LCS-L688138)					Prepared: 06/16/2023 Analyzed: 06/17/2023					
Benzo(a)anthracene	0.108	0.00067	mg/Kg	0.167		64.6	30-130			
Surrogate: Nitrobenzene-d5	56.7		"	0.333		56.7	29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333		70.8	33-122			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			
LRB (LRB-L688138)					Prepared: 06/16/2023 Analyzed: 06/17/2023					
Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	52.8		"	0.333		52.8	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 L687804 -										
DUP (L 86806-DUP)	Source: 86806				Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 86806-MS)	Source: 86806				Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	33.5	2.5	mg/Kg	38.8	<1.22	86	75-125			
LCS (LCS)					Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	7.09	0.5	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

Notes and Definitions

U Sample is Non-Detect.

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

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

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.



June 19, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Anders 11-17 Wellhead

Project Number - 09A1417319

Attached are your analytical results for KMG - Anders 11-17 Wellhead received by Origins Laboratory, Inc. June 08, 2023. This project is associated with Origins project number Y306215-01.

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

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

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

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

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

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



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG01@3'	Y306215-01	Soil	June 8, 2023 9:25	06/08/2023 17:42
NATIVE-BG01@6'	Y306215-02	Soil	June 8, 2023 9:35	06/08/2023 17:42
NATIVE-BG02@3'	Y306215-03	Soil	June 8, 2023 9:50	06/08/2023 17:42
NATIVE-BG02@6'	Y306215-04	Soil	June 8, 2023 10:00	06/08/2023 17:42
NATIVE-BG03@6'	Y306215-05	Soil	June 8, 2023 10:20	06/08/2023 17:42
NATIVE-BG03@6'	Y306215-06	Soil	June 8, 2023 10:30	06/08/2023 17:42

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.

Jen Pellegrini, Project Manager

Page 3 of 22

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB0025 Client: Ensolum
Client Project ID: Anders 11-17

Checklist Completed by: JH Shipped Via: Hand Delivered
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 01/2/23 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 30 °C 1 °C 1 °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⁾ ?		/		SP
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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) JH Date/Time Reviewed 01/2/23

Origins Laboratory, Inc.

Jefe Pellegrini

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: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG01@3'

6/8/2023 9:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306215-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0525	0.0991	mg/kg	1	B3F0911	KAP	06/09/2023	06/12/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.945	0.499	meq/L	10	[CALC]	KAP	06/09/2023	06/12/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.58	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.38		pH Units	1	B3F0916	HJD	06/09/2023	06/10/2023
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SAR by 20B Saturated Paste

SAR	1.93		SAR	1	B3F0913	KAP	06/09/2023	06/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.319	0.00500	mmhos/cm	1	B3F0916	HJD	06/09/2023	06/10/2023
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Table 915 metals by EPA 6020B

Arsenic	1.27	0.0952	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Barium	ND	9.52	"	"	"	CIH	"	"
Cadmium	ND	0.0952	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG01@3'

6/8/2023 9:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.52	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Lead	ND	9.52	"	"	"	CIH	"	"
Nickel	ND	9.52	"	"	"	CIH	"	"
Selenium	ND	0.0952	"	"	"	CIH	"	"
Silver	ND	0.0952	"	"	"	CIH	"	"
Zinc	ND	95.2	"	"	"	CIH	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L687801		06/08/2023	06/15/2023
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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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

NATIVE-BG01@6'
6/8/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0701	0.100	mg/kg	1	B3F0911	KAP	06/09/2023	06/12/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.911	0.499	meq/L	10	[CALC]	KAP	06/09/2023	06/12/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.54	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.43		pH Units	1	B3F0916	HJD	06/09/2023	06/10/2023
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SAR by 20B Saturated Paste

SAR	1.93		SAR	1	B3F0913	KAP	06/09/2023	06/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.319	0.00500	mmhos/cm	1	B3F0916	HJD	06/09/2023	06/10/2023
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Table 915 metals by EPA 6020B

Arsenic	0.866	0.0881	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Barium	18.5	8.81	"	"	"	CIH	"	"
Cadmium	ND	0.0881	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG01@6'

6/8/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.81	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Lead	ND	8.81	"	"	"	CIH	"	"
Nickel	ND	8.81	"	"	"	CIH	"	"
Selenium	ND	0.0881	"	"	"	CIH	"	"
Silver	ND	0.0881	"	"	"	CIH	"	"
Zinc	ND	88.1	"	"	"	CIH	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.508	mg/Kg	1	L687801		06/08/2023	06/15/2023
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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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

NATIVE-BG02@3'
6/8/2023 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.214	0.0993	mg/kg	1	B3F0911	KAP	06/09/2023	06/12/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.34	0.499	meq/L	10	[CALC]	KAP	06/09/2023	06/12/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.21	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.38		pH Units	1	B3F0916	HJD	06/09/2023	06/10/2023
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SAR by 20B Saturated Paste

SAR	2.25		SAR	1	B3F0913	KAP	06/09/2023	06/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.435	0.00500	mmhos/cm	1	B3F0916	HJD	06/09/2023	06/10/2023
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Table 915 metals by EPA 6020B

Arsenic	1.75	0.0876	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Barium	46.2	8.76	"	"	"	CIH	"	"
Cadmium	ND	0.0876	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 Wellhead

NATIVE-BG02@3'
6/8/2023 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.76	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Lead	ND	8.76	"	"	"	CIH	"	"
Nickel	ND	8.76	"	"	"	CIH	"	"
Selenium	ND	0.0876	"	"	"	CIH	"	"
Silver	ND	0.0876	"	"	"	CIH	"	"
Zinc	ND	87.6	"	"	"	CIH	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.51	mg/Kg	1	L687801		06/08/2023	06/15/2023
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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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

NATIVE-BG02@6'
6/8/2023 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0483	0.0998	mg/kg	1	B3F0911	KAP	06/09/2023	06/12/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.613	0.499	meq/L	10	[CALC]	KAP	06/09/2023	06/12/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.06	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.54		pH Units	1	B3F0916	HJD	06/09/2023	06/10/2023
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SAR by 20B Saturated Paste

SAR	1.63		SAR	1	B3F0913	KAP	06/09/2023	06/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.207	0.00500	mmhos/cm	1	B3F0916	HJD	06/09/2023	06/10/2023
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Table 915 metals by EPA 6020B

Arsenic	0.602	0.0835	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Barium	14.4	8.35	"	"	"	CIH	"	"
Cadmium	ND	0.0835	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG02@6'

6/8/2023 10:00:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.
Y306215-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.35	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Lead	ND	8.35	"	"	"	CIH	"	"
Nickel	ND	8.35	"	"	"	CIH	"	"
Selenium	ND	0.0835	"	"	"	CIH	"	"
Silver	ND	0.0835	"	"	"	CIH	"	"
Zinc	ND	83.5	"	"	"	CIH	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.505	mg/Kg	1	L687801		06/08/2023	06/15/2023
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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: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG03@6'

6/8/2023 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306215-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.133	0.101	mg/kg	1	B3F0911	KAP	06/09/2023	06/12/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.12	0.499	meq/L	10	[CALC]	KAP	06/09/2023	06/12/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.18	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B3F0916	HJD	06/09/2023	06/10/2023
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SAR by 20B Saturated Paste

SAR	2.45		SAR	1	B3F0913	KAP	06/09/2023	06/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.417	0.00500	mmhos/cm	1	B3F0916	HJD	06/09/2023	06/10/2023
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Table 915 metals by EPA 6020B

Arsenic	1.78	0.0964	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Barium	48.4	9.64	"	"	"	CIH	"	"
Cadmium	ND	0.0964	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG03@6'

6/8/2023 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.64	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Lead	ND	9.64	"	"	"	CIH	"	"
Nickel	ND	9.64	"	"	"	CIH	"	"
Selenium	ND	0.0964	"	"	"	CIH	"	"
Silver	ND	0.0964	"	"	"	CIH	"	"
Zinc	ND	96.4	"	"	"	CIH	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L687801		06/08/2023	06/15/2023
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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: 09A1417319
Project: KMG - Anders 11-17 Wellhead

NATIVE-BG03@6'
6/8/2023 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306215-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0394	0.0995	mg/kg	1	B3F0911	KAP	06/09/2023	06/12/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	06/09/2023	06/12/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.02	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B3F0916	HJD	06/09/2023	06/10/2023
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SAR by 20B Saturated Paste

SAR	1.85		SAR	1	B3F0913	KAP	06/09/2023	06/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.174	0.00500	mmhos/cm	1	B3F0916	HJD	06/09/2023	06/10/2023
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Table 915 metals by EPA 6020B

Arsenic	0.589	0.0875	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Barium	13.0	8.75	"	"	"	CIH	"	"
Cadmium	ND	0.0875	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417319

Project: KMG - Anders 11-17 Wellhead

NATIVE-BG03@6'

6/8/2023 10:30:00AM

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

Y306215-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.75	mg/kg	10	B3F1314	CIH	06/13/2023	06/13/2023
Lead	ND	8.75	"	"	"	CIH	"	"
Nickel	ND	8.75	"	"	"	CIH	"	"
Selenium	ND	0.0875	"	"	"	CIH	"	"
Silver	ND	0.0875	"	"	"	CIH	"	"
Zinc	ND	87.5	"	"	"	CIH	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.504	mg/Kg	1	L687801		06/08/2023	06/15/2023
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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: 09A1417319
Project: KMG - Anders 11-17 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 B3F1314 - EPA 3050B

Blank (B3F1314-BLK1)

Prepared: 06/13/2023 Analyzed: 06/13/2023

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 (B3F1314-BS1)

Prepared: 06/13/2023 Analyzed: 06/13/2023

Arsenic	0.0521	0.000100	mg/kg	0.0500	104	80-120
Barium	5.18	0.0100	"	5.00	104	80-120
Cadmium	0.0517	0.000100	"	0.0500	103	80-120
Copper	0.514	0.0100	"	0.500	103	80-120
Lead	0.0506	0.0100	"	0.0500	101	80-120
Nickel	0.0533	0.0100	"	0.0500	107	80-120
Selenium	0.0499	0.000100	"	0.0500	99.7	80-120
Silver	0.0489	0.000100	"	0.0500	97.8	80-120
Zinc	0.505	0.100	"	0.500	101	80-120

Matrix Spike (B3F1314-MS1)

Source: Y305499-01

Prepared: 06/13/2023 Analyzed: 06/13/2023

Arsenic	6.34	0.0948	mg/kg	4.74	0.994	113	75-125
Barium	533	9.48	"	474	32.7	106	75-125
Cadmium	5.05	0.0948	"	4.74	0.0605	105	75-125
Copper	51.4	9.48	"	47.4	3.25	102	75-125
Lead	11.1	9.48	"	4.74	4.49	139	75-125

QM-07

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F1314 - EPA 3050B

Matrix Spike (B3F1314-MS1)		Source: Y305499-01			Prepared: 06/13/2023 Analyzed: 06/13/2023					
Nickel	10.2	9.48	mg/kg	4.74	2.59	160	75-125			QM-07
Selenium	4.82	0.0948	"	4.74	0.0397	101	75-125			
Silver	4.66	0.0948	"	4.74	0.0117	98.1	75-125			
Zinc	61.5	94.8	"	47.4	13.3	102	75-125			
Matrix Spike Dup (B3F1314-MSD1)		Source: Y305499-01			Prepared: 06/13/2023 Analyzed: 06/13/2023					
Arsenic	5.53	0.0876	mg/kg	4.38	0.994	104	75-125	13.7	20	
Barium	487	8.76	"	438	32.7	104	75-125	8.95	20	
Cadmium	4.59	0.0876	"	4.38	0.0605	103	75-125	9.55	20	
Copper	45.9	8.76	"	43.8	3.25	97.4	75-125	11.3	20	
Lead	10.6	8.76	"	4.38	4.49	139	75-125	4.78	20	QM-07
Nickel	7.54	8.76	"	4.38	2.59	113	75-125	29.8	20	QR-DUP
Selenium	4.18	0.0876	"	4.38	0.0397	94.6	75-125	14.0	20	
Silver	4.26	0.0876	"	4.38	0.0117	97.0	75-125	9.05	20	
Zinc	56.5	87.6	"	43.8	13.3	98.8	75-125	8.38	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417319
Project: KMG - Anders 11-17 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 B3F0911 - DTPA Sorbitol Preparation

Blank (B3F0911-BLK1)

Prepared: 06/09/2023 Analyzed: 06/12/2023

Boron ND 0.100 mg/kg

Duplicate (B3F0911-DUP1)

Source: Y306091-13

Prepared: 06/09/2023 Analyzed: 06/12/2023

Boron 1.21 0.0991 mg/kg 1.05 14.4 50 QR-DUP

Batch B3F0913 - Saturated Paste Metals

Blank (B3F0913-BLK1)

Prepared: 06/09/2023 Analyzed: 06/12/2023

SAR 0.00 SAR
Calcium PPM ND 10.0 mg/L
Magnesium PPM ND 10.0 "
Sodium PPM 0.300 10.0 "

Duplicate (B3F0913-DUP1)

Source: Y306215-01

Prepared: 06/09/2023 Analyzed: 06/12/2023

Calcium PPM 18.0 10.0 mg/L 18.9 4.98 50
SAR 0.00 SAR 1.93 200 200
Magnesium PPM 4.61 10.0 mg/L 4.80 4.04 50
Sodium PPM 36.7 10.0 " 36.3 1.23 50

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: 09A1417319
Project: KMG - Anders 11-17 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 B3F0916 - Saturated Paste pH/EC										
Blank (B3F0916-BLK1)					Prepared: 06/09/2023 Analyzed: 06/10/2023					
pH	0.00		pH Units							
Specific Conductance (EC)	0.00310	0.00500	mmhos/cm							
Duplicate (B3F0916-DUP1)					Source: Y306215-01 Prepared: 06/09/2023 Analyzed: 06/10/2023					
pH	8.40		pH Units		8.38			0.238	25	
Specific Conductance (EC)	0.329	0.00500	mmhos/cm		0.319			3.18	25	

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: 09A1417319
Project: KMG - Anders 11-17 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 L687801 -										
DUP (L 86243-DUP)		Source: Y306215-02			Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	ND	0.507	mg/Kg		<0.507		-	0	20	
MS (L 86243-MS)		Source: Y306215-02			Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	35	2.56	mg/Kg	41	<1.25	85	75-125			
LCS (LCS)					Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	7	0.5	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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: 09A1417319

Project: KMG - Anders 11-17 Wellhead

Notes and Definitions

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager