

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
HART-MEMCO 1-22 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								
N Wall	5/2/2024	4	1.0	NS	NO	40.303573	-104.983281	N
E Wall/WH01-RISER@4'	5/2/2024	4	0.5	NS	NO	40.303567	-104.98327	Y
WH01-RISER@4'-V	5/2/2024	4	0.5	NS	NO	40.303567	-104.98327	Y
S Wall	5/2/2024	4	0.6	NS	NO	40.303542	-104.98328	N
W Wall	5/2/2024	3	0.8	NS	NO	40.303558	-104.983304	N
B01@7'	5/2/2024	7	0.2	NS	NO	40.30356	-104.983283	Y
B01@7'-V	5/2/2024	7	0.2	NS	NO	40.30356	-104.983283	Y
FS01	5/2/2024	0.5	0.0	NS	NO	40.303582	-104.983285	N
FS02	5/2/2024	0.5	0.0	NS	NO	40.303558	-104.983235	N
FS03	5/2/2024	0.5	0.0	NS	NO	40.303524	-104.983282	N
FS04	5/2/2024	0.5	0.1	NS	NO	40.303551	-104.983336	N
FLOWLINE POTHOLE SAMPLES								
PH01	6/12/2024	3	1.8	NS	NO	40.303572	-104.982501	N
PH02	6/12/2024	3	1.3	NS	NO	40.303586	-104.982961	N
SEPARATOR RISER SAMPLES								
SEP01-RISER@4'	6/10/2024	4	0.0	NS	NO	40.303566	-104.981997	Y
BACKGROUND SOIL SAMPLES								
NATIVE-BG01@3'	5/2/2024	3	0.6	NS	NO	40.303686	-104.983288	Y
NATIVE-BG01@6'	5/2/2024	6	0.8	NS	NO	40.303686	-104.983288	Y
NATIVE-BG02@3'	5/2/2024	3	1.2	NS	NO	40.30359	-104.98318	Y
NATIVE-BG02@6'	5/2/2024	6	0.5	NS	NO	40.30359	-104.98318	Y
NATIVE-BG03@3'	5/2/2024	3	0.0	NS	NO	40.303526	-104.98318	Y
NATIVE-BG03@6'	5/2/2024	6	0.1	NS	NO	40.303526	-104.98318	Y
NATIVE-BG04@3'	5/2/2024	3	0.1	NS	NO	40.303487	-104.983278	Y
NATIVE-BG04@6'	5/2/2024	6	0.4	NS	NO	40.303487	-104.983278	Y
NATIVE-BG05@3'	5/2/2024	3	1.2	NS	NO	40.303512	-104.983372	Y
NATIVE-BG05@6'	5/2/2024	6	0.7	NS	NO	40.303512	-104.983372	Y
NATIVE-BG06@3'	5/2/2024	3	0.5	NS	NO	40.303588	-104.983389	Y
NATIVE-BG06@6'	5/2/2024	6	0.2	NS	NO	40.303588	-104.983389	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
HART-MEMCO 1-22 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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@4'	5/2/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
WH01-RISER@4'-V	5/2/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@7'	5/2/2024	7	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B01@7'-V	5/2/2024	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
SEP01-RISER@4'	6/10/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002

Notes:

ECMC - Energy and Carbon Management Commission
PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
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

ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
HART-MEMCO 1-22 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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			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@4'	5/2/2024	4	<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
WH01-RISER@4'-V	5/2/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@7'	5/2/2024	7	<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@7'-V	5/2/2024	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
SEP01-RISER@4'	6/10/2024	4	<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

Notes:
ECMC - Energy and Carbon Management Commission
PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
HART-MEMCO 1-22 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)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits			1.15	2.79	8.52	0.748
WELLHEAD EXCAVATION SAMPLES						
WH01-RISER@4'	5/2/2024	4	0.506	2.29	8.22	0.583
WH01-RISER@4'-V	5/2/2024	4	NA	NA	8.53	NA
B01@7'	5/2/2024	7	0.685	4.57	9.29	0.560
B01@7'-V	5/2/2024	7	NA	NA	8.29	NA
SEPARATOR RISER SAMPLES						
SEP01-RISER@4'	6/10/2024	4	0.296	0.147	8.48*	0.369
BACKGROUND SAMPLES						
NATIVE-BG01@3'	5/2/2024	3	0.391	1.10	8.29	0.683
NATIVE-BG01@6'	5/2/2024	6	0.404	1.48	8.44	0.409
NATIVE-BG02@3'	5/2/2024	3	0.408	0.610	8.30	0.608
NATIVE-BG02@6'	5/2/2024	6	0.672	0.699	8.14	0.654
NATIVE-BG03@3'	5/2/2024	3	1.07	1.46	8.13	0.609
NATIVE-BG03@6'	5/2/2024	6	0.922	2.07	8.24	0.600
NATIVE-BG04@3'	5/2/2024	3	0.408	1.00	8.33	0.517
NATIVE-BG04@6'	5/2/2024	6	1.08	2.33	8.27	0.606
NATIVE-BG05@3'	5/2/2024	3	1.15	1.63	8.21	0.720
NATIVE-BG05@6'	5/2/2024	6	0.989	2.79	8.45	0.748
NATIVE-BG06@3'	5/2/2024	3	0.402	0.516	8.52	0.534
NATIVE-BG06@6'	5/2/2024	6	0.511	0.926	8.41	0.233

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

*Exceeds Table 915-1 allowable level but within background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HART-MEMCO 1-22 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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits			5.54	214	0.398	0	16.3	13.9	24.4	0.35	0	70.7
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@4'	5/2/2024	4	4.43*	173*	0.245	<0.393	15.3	12.9	16.7	<0.232	<0.0890	66.9
WH01-RISER@4'-V	5/2/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@7'	5/2/2024	7	4.28*	155*	0.265	<0.260	12.4	11.1	17.3	<0.222	<0.0855	60.2
B01@7'-V	5/2/2024	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
SEP01-RISER@4'	6/10/2024	4	4.02*	160*	0.303	<0.432	13.9	11.5	15.6	0.343*	<0.0941	58.2
BACKGROUND SAMPLES												
NATIVE-BG01@3'	5/2/2024	3	4.79	184	0.341	<0.363	16.0	10.9	18.7	0.262	<0.0922	64.8
NATIVE-BG01@6'	5/2/2024	6	3.44	117	0.211	<0.415	<9.80	8.17	13.6	<0.255	<0.0980	48.5
NATIVE-BG02@3'	5/2/2024	3	5.08	172	0.333	<0.371	14.7	10.7	17.3	0.330	<0.0977	62.1
NATIVE-BG02@6'	5/2/2024	6	5.02	162	0.398	<0.416	15.4	13.9	18.2	0.350	<0.0905	70.7
NATIVE-BG03@3'	5/2/2024	3	4.51	185	0.320	<0.366	12.2	9.65	15.0	<0.229	<0.0881	54.2
NATIVE-BG03@6'	5/2/2024	6	5.54	214	0.351	<0.418	15.4	11.4	24.4	0.232	<0.0859	66.7
NATIVE-BG04@3'	5/2/2024	3	4.81	171	0.345	<0.428	16.3	11.8	19.2	<0.247	<0.0950	69.7
NATIVE-BG04@6'	5/2/2024	6	4.03	142	0.287	<0.407	12.7	10.3	0.8	<0.228	<0.0879	59.5
NATIVE-BG05@3'	5/2/2024	3	4.56	162	0.387	<0.325	14.4	10.6	17.8	<0.256	<0.0985	60.8
NATIVE-BG05@6'	5/2/2024	6	3.88	137	0.174	<0.483	11.0	9.14	14.6	<0.230	<0.0884	58.0
NATIVE-BG06@3'	5/2/2024	3	4.07	145	0.227	<0.368	13.5	9.08	15.7	0.299	<0.0922	55.9
NATIVE-BG06@6'	5/2/2024	6	3.87	137	0.248	<0.395	10.8	9.36	14.9	<0.248	<0.0953	51.2

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

*Exceeds Table 915-1 allowable level but within background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.



May 23, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Hort-Memco 1-22 Wellhead Project Number - 09A1417672

Attached are your analytical results for KMG - Hort-Memco 1-22 Wellhead received by Origins Laboratory, Inc. May 02, 2024. This project is associated with Origins project number Y405067-01.

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@7'	Y405067-01	Soil	May 2, 2024 12:10	05/02/2024 15:32
B01@7'-V	Y405067-02	Soil	May 2, 2024 12:12	05/02/2024 15:32
WH01-RISER@4'	Y405067-03	Soil	May 2, 2024 12:14	05/02/2024 15:32
WH01-RISER@4'-V	Y405067-04	Soil	May 2, 2024 12:16	05/02/2024 15:32
NATIVE-BG01@3'	Y405067-05	Soil	May 2, 2024 11:56	05/02/2024 15:32
NATIVE-BG01@6'	Y405067-06	Soil	May 2, 2024 11:54	05/02/2024 15:32
NATIVE-BG02@3'	Y405067-07	Soil	May 2, 2024 12:02	05/02/2024 15:32
NATIVE-BG02@6'	Y405067-08	Soil	May 2, 2024 12:04	05/02/2024 15:32
NATIVE-BG03@3'	Y405067-09	Soil	May 2, 2024 11:40	05/02/2024 15:32
NATIVE-BG03@6'	Y405067-10	Soil	May 2, 2024 11:42	05/02/2024 15:32
NATIVE-BG04@3'	Y405067-11	Soil	May 2, 2024 11:38	05/02/2024 15:32
NATIVE-BG04@6'	Y405067-12	Soil	May 2, 2024 11:36	05/02/2024 15:32
NATIVE-BG05@3'	Y405067-13	Soil	May 2, 2024 11:32	05/02/2024 15:32
NATIVE-BG05@6'	Y405067-14	Soil	May 2, 2024 11:34	05/02/2024 15:32

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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.

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG06@3'	Y405067-15	Soil	May 2, 2024 11:58	05/02/2024 15:32
NATIVE-BG06@6'	Y405067-16	Soil	May 2, 2024 12:00	05/02/2024 15:32

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Jeremy Espinoza

Project Number: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

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page 1 of 2

Client: Ensolum

Address: _____

Project Manager: Jeremy Espinoza

Project Name: Hort-Memco 1-22 Wellhead

Project Number: 09A1417672

Telephone Number: _____

Samples Collected By: JL

Email Address: KMG-1200W

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃		Other	Groundwater	Soil	Air Summa Canister #	
Bollet-V	5/2/24	1210	3	X								held for additional analysis
WH01-030204-1	1/21/24	1214	1									
WH01-030204-1	1/21/24	1216	2									
MA721E-B601E31		1156										
MA721E-B601E61		1158										
MA721E-B602E31		1202										
MA721E-B602E61		1204										
MA721E-B603E31		1140										
MA721E-B603E61		1142										
Relinquished By: <u>[Signature]</u>	Date: 5/2/24	Time: 1332										
Received By: <u>[Signature]</u>	Date: 5/2/24	Time: 1532										
Turnaround Time:												
Standard												

Temp Received- 15

Date Results Needed

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.

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

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page 2 of 2

Client: Ensolum

Address:

Telephone Number:

Email Address: KMG-Team

Project Manager: Jeremy Espinoza

Project Name: Hort-Memco 1-22 Wellhead

Project Number: 09A1417672

Samples Collected By: JN

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		pH, EC, SAR (SD)
MATHE-6A04 E3	5/12/14	1138	2	X					X		X	X	
MATHE-6A04 E6		1136											
MATHE-6A05 E3		1137											
MATHE-6A05 E6		1138											
MATHE-6A06 E3		1158											
MATHE-6A06 E6		1200											

Temp Received-

1.5

Date Results Needed

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 5/12/14

Time: 1:32

Received By: [Signature]

Date: 5/12/14

Time: 1:32

Turnaround time:

Some Day

48 Hr

72 Hr

Standard

Origins Laboratory, Inc.

[Signature]

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4405067

Client: Ensolum

Client Project ID: Hart - Memco 1-22

Checklist Completed by: JWVSA

Shipped Via: HD

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

Date/time completed: 5/02/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 1.5 °C °C °C °C (Describe)

Thermometer ID: 7005

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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

5/02/24
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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

B01@7'

5/2/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.560	0.100	mg/L	1	B4E0308	05/03/2024	05/07/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E0228	05/02/2024	05/02/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E0229	05/02/2024	05/02/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

B01@7'

5/2/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %	70-130	B4E0229	05/02/2024	05/02/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.20	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.48	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E0226	05/02/2024	05/02/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

B01@7'

5/2/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E0226	05/02/2024	05/02/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	120 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	9.29	pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	4.57	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.685	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

B01@7'

5/2/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.28	0.248	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	155	8.55	"	"	"	"	"
Cadmium	0.265	0.0855	"	"	"	"	"
Copper	12.4	8.55	"	"	"	"	"
Lead	11.1	0.855	"	"	"	"	"
Nickel	17.3	0.855	"	"	"	"	"
Selenium	ND	0.222	"	"	"	"	"
Silver	ND	0.0855	"	"	"	"	"
Zinc	60.2	31.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.104	0.260	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

B01@7'-V

5/2/2024 12:12:00PM

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

Y405067-02 (Soil)

pH in Soil by 9045D

pH	8.29			pH Units	1	B4E0724	05/07/2024	05/08/2024	
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

WH01-RISER@4'
5/2/2024 12:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.583	0.0988	mg/L	1	B4E0308	05/03/2024	05/07/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E0228	05/02/2024	05/02/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	76.5 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E0229	05/02/2024	05/02/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

WH01-RISER@4'
5/2/2024 12:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B4E02 29	05/02/2024	05/02/2024
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.81	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	2.96	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E0226	05/02/2024	05/02/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

WH01-RISER@4'
5/2/2024 12:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E0226	05/02/2024	05/02/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	123 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.22	pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	2.29	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.506	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

WH01-RISER@4'
5/2/2024 12:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.43	0.258	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	173	8.90	"	"	"	"	"
Cadmium	0.245	0.0890	"	"	"	"	"
Copper	15.3	8.90	"	"	"	"	"
Lead	12.9	0.890	"	"	"	"	"
Nickel	16.7	0.890	"	"	"	"	"
Selenium	ND	0.232	"	"	"	"	"
Silver	ND	0.0890	"	"	"	"	"
Zinc	66.9	32.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.157	0.393	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

WH01-RISER@4'-V

5/2/2024 12:16:00PM

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

Y405067-04 (Soil)

pH in Soil by 9045D

pH	8.53		pH Units	1	B4E0724	05/07/2024	05/08/2024
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG01@3'
5/2/2024 11:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.683	0.0994	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.93	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	1.97	0.823	"	"	"	"	"
Sodium	1.54	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	1.10	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.391	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	4.79	0.267	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	184	9.22	"	"	"	"	"
Cadmium	0.341	0.0922	"	"	"	"	"
Copper	16.0	9.22	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG01@3'
5/2/2024 11:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-05 (Soil)

Table 915 metals by EPA 6020B

Lead	10.9	0.922	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	18.7	0.922	"	"	"	"	"
Selenium	0.262	0.240	"	"	"	"	"
Silver	ND	0.0922	"	"	"	"	"
Zinc	64.8	34.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.145	0.363	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG01@6'
5/2/2024 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.409	0.102	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.989	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	2.11	0.823	"	"	"	"	"
Sodium	1.84	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.44		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	1.48	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.404	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	3.44	0.284	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	117	9.80	"	"	"	"	"
Cadmium	0.211	0.0980	"	"	"	"	"
Copper	ND	9.80	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG01@6'
5/2/2024 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-06 (Soil)

Table 915 metals by EPA 6020B

Lead	8.17		0.980	mg/kg	10	B4E0230	05/02/2024	05/03/2024	
Nickel	13.6		0.980	"	"	"	"	"	
Selenium	ND		0.255	"	"	"	"	"	
Silver	ND		0.0980	"	"	"	"	"	
Zinc	48.5		36.3	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.166	0.415	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG02@3'
5/2/2024 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.608	0.100	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.25	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	1.78	0.823	"	"	"	"	"
Sodium	0.866	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.30		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	0.610	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.408	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	5.08	0.283	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	172	9.77	"	"	"	"	"
Cadmium	0.333	0.0977	"	"	"	"	"
Copper	14.7	9.77	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG02@3'
5/2/2024 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-07 (Soil)

Table 915 metals by EPA 6020B

Lead	10.7	0.977	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	17.3	0.977	"	"	"	"	"
Selenium	0.330	0.254	"	"	"	"	"
Silver	ND	0.0977	"	"	"	"	"
Zinc	62.1	36.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.148	0.371	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG02@6'
5/2/2024 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.654	0.0985	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.92	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	2.76	0.823	"	"	"	"	"
Sodium	1.28	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	0.699	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.672	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	5.02	0.262	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	162	9.05	"	"	"	"	"
Cadmium	0.398	0.0905	"	"	"	"	"
Copper	15.4	9.05	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG02@6'
5/2/2024 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-08 (Soil)

Table 915 metals by EPA 6020B

Lead	13.9	0.905	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	18.2	0.905	"	"	"	"	"
Selenium	0.350	0.235	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	70.7	33.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.166	0.416	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG03@3'
5/2/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.609	0.101	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	5.71	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	5.37	0.823	"	"	"	"	"
Sodium	3.44	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.13		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	1.46	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.07	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	4.51	0.256	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	185	8.81	"	"	"	"	"
Cadmium	0.320	0.0881	"	"	"	"	"
Copper	12.2	8.81	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG03@3'
5/2/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-09 (Soil)

Table 915 metals by EPA 6020B

Lead	9.65	0.881	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	15.0	0.881	"	"	"	"	"
Selenium	ND	0.229	"	"	"	"	"
Silver	ND	0.0881	"	"	"	"	"
Zinc	54.2	32.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG03@6'
5/2/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.600	0.0986	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.15	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	4.11	0.823	"	"	"	"	"
Sodium	3.94	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.24		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	2.07	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.922	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	5.54	0.249	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	214	8.59	"	"	"	"	"
Cadmium	0.351	0.0859	"	"	"	"	"
Copper	15.4	8.59	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG03@6'
5/2/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-10 (Soil)

Table 915 metals by EPA 6020B

Lead	11.4	0.859	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	24.4	0.859	"	"	"	"	"
Selenium	0.232	0.223	"	"	"	"	"
Silver	ND	0.0859	"	"	"	"	"
Zinc	66.7	31.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.167	0.418	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG04@3'
5/2/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.517	0.0999	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.08	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	1.44	0.823	"	"	"	"	"
Sodium	1.33	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	1.00	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.408	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	4.81	0.275	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	171	9.50	"	"	"	"	"
Cadmium	0.345	0.0950	"	"	"	"	"
Copper	16.3	9.50	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG04@3'
5/2/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-11 (Soil)

Table 915 metals by EPA 6020B

Lead	11.8	0.950	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	19.2	0.950	"	"	"	"	"
Selenium	ND	0.247	"	"	"	"	"
Silver	ND	0.0950	"	"	"	"	"
Zinc	69.7	35.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.171	0.428	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG04@6'
5/2/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.606	0.0992	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	4.96	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	5.27	0.823	"	"	"	"	"
Sodium	5.28	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	2.33	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	4.03	0.255	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	142	8.79	"	"	"	"	"
Cadmium	0.287	0.0879	"	"	"	"	"
Copper	12.7	8.79	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG04@6'
5/2/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-12 (Soil)

Table 915 metals by EPA 6020B

Lead	10.3		0.879	mg/kg	10	B4E0230	05/02/2024	05/03/2024	
Nickel	15.8		0.879	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0879	"	"	"	"	"	
Zinc	59.5		32.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.163	0.407	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG05@3'
5/2/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.720	0.102	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	5.63	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	6.52	0.823	"	"	"	"	"
Sodium	4.01	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.21		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	1.63	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.15	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	4.56	0.286	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	162	9.85	"	"	"	"	"
Cadmium	0.387	0.0985	"	"	"	"	"
Copper	14.4	9.85	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG05@3'
5/2/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-13 (Soil)

Table 915 metals by EPA 6020B

Lead	10.6	0.985	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	17.8	0.985	"	"	"	"	"
Selenium	ND	0.256	"	"	"	"	"
Silver	ND	0.0985	"	"	"	"	"
Zinc	60.8	36.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG05@6'
5/2/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.748	0.101	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	5.51	0.823	"	"	"	"	"
Sodium	5.45	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.45		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	2.79	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.989	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	3.88	0.256	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	137	8.84	"	"	"	"	"
Cadmium	0.174	0.0884	"	"	"	"	"
Copper	11.0	8.84	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG05@6'
5/2/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-14 (Soil)

Table 915 metals by EPA 6020B

Lead	9.14	0.884	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	14.6	0.884	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.0884	"	"	"	"	"
Zinc	58.0	32.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.193	0.483	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG06@3'
5/2/2024 11:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.534	0.0994	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.18	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	2.32	0.823	"	"	"	"	"
Sodium	0.774	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.52		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	0.516	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.402	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	4.07	0.267	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	145	9.22	"	"	"	"	"
Cadmium	0.227	0.0922	"	"	"	"	"
Copper	13.5	9.22	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG06@3'
5/2/2024 11:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-15 (Soil)

Table 915 metals by EPA 6020B

Lead	9.08	0.922	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	15.7	0.922	"	"	"	"	"
Selenium	0.299	0.240	"	"	"	"	"
Silver	ND	0.0922	"	"	"	"	"
Zinc	55.9	34.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.147	0.368	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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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: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG06@6'
5/2/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-16 (Soil)

Boron (DTPA Sorbitol)

Boron	0.233	0.100	mg/L	1	B4E0308	05/03/2024	05/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.68	0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024
Magnesium	2.79	0.823	"	"	"	"	"
Sodium	1.53	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.41		pH Units	1	B4E0313	05/03/2024	05/05/2024
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SAR by 20B Saturated Paste

SAR	0.926	0.0100	SAR	1	B4E0303	05/03/2024	05/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.511	0.00500	mmhos/cm	1	B4E0313	05/03/2024	05/05/2024
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Table 915 metals by EPA 6020B

Arsenic	3.87	0.276	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Barium	137	9.53	"	"	"	"	"
Cadmium	0.248	0.0953	"	"	"	"	"
Copper	10.8	9.53	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

NATIVE-BG06@6'
5/2/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405067-16 (Soil)

Table 915 metals by EPA 6020B

Lead	9.36	0.953	mg/kg	10	B4E0230	05/02/2024	05/03/2024
Nickel	14.9	0.953	"	"	"	"	"
Selenium	ND	0.248	"	"	"	"	"
Silver	ND	0.0953	"	"	"	"	"
Zinc	51.2	35.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.158	0.395	mg/kg dry	1	2614762	05/21/2024	05/21/2024	U
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0228 - EPA 3550B										
Blank (B4E0228-BLK1)					Prepared: 05/02/2024 Analyzed: 05/02/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		78.6	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0228 - EPA 3550B

LCS (B4E0228-BS1)

Prepared: 05/02/2024 Analyzed: 05/02/2024

Diesel (C10-C28)	836	50.0	mg/kg	1000		83.6	70-130			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0228 - EPA 3550B

Matrix Spike (B4E0228-MS1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/02/2024					
Diesel (C10-C28)	829	50.0	mg/kg	1000	ND	82.9	70-130			
Residual Range Organics (C28-C40)	856	200	"	1000	ND	85.6	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0228 - EPA 3550B										
Matrix Spike Dup (B4E0228-MSD1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/02/2024					
Diesel (C10-C28)	808	50.0	mg/kg	1000	ND	80.8	70-130	2.53	35	
Residual Range Organics (C28-C40)	845	200	"	1000	ND	84.5	70-130	1.26	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0229 - EPA 5030 (soil)										
Blank (B4E0229-BLK1)					Prepared: 05/02/2024 Analyzed: 05/02/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0229 - EPA 5030 (soil)										
LCS (B4E0229-BS1)					Prepared: 05/02/2024 Analyzed: 05/02/2024					
1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.116	0.00200	"	0.100		116	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.230	0.00400	"	0.200		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0229 - EPA 5030 (soil)										
Matrix Spike (B4E0229-MS1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/02/2024					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.217	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0229 - EPA 5030 (soil)										
Matrix Spike Dup (B4E0229-MSD1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/02/2024					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	5.04	20	
1,3,5-Trimethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	5.79	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	2.25	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	3.99	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	0.251	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	4.48	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	4.42	20	
m,p-Xylene	0.207	0.00400	"	0.200	ND	104	70-130	4.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0230 - EPA 3050B

Blank (B4E0230-BLK1)

Prepared: 05/02/2024 Analyzed: 05/03/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4E0230-BS1)

Prepared: 05/02/2024 Analyzed: 05/03/2024

Arsenic	5.48	0.290	mg/kg	5.00	110	80-120
Barium	500	10.0	"	500	100	80-120
Cadmium	5.11	0.100	"	5.00	102	80-120
Copper	51.5	10.0	"	50.0	103	80-120
Lead	5.14	1.00	"	5.00	103	80-120
Nickel	5.43	1.00	"	5.00	109	80-120
Selenium	9.85	0.260	"	9.50	104	80-120
Silver	5.11	0.100	"	5.00	102	80-120
Zinc	53.9	37.0	"	50.0	108	80-120

Matrix Spike (B4E0230-MS1)

Source: Y405064-01

Prepared: 05/02/2024 Analyzed: 05/03/2024

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0230 - EPA 3050B

Matrix Spike (B4E0230-MS1)		Source: Y405064-01			Prepared: 05/02/2024 Analyzed: 05/03/2024					
Arsenic	6.81	0.277	mg/kg	4.78	2.15	97.6	75-125			
Barium	496	9.55	"	478	54.2	92.5	75-125			
Cadmium	4.82	0.0955	"	4.78	0.0975	98.9	75-125			
Copper	52.2	9.55	"	47.8	8.97	90.5	75-125			
Lead	23.9	0.955	"	4.78	22.8	23.2	75-125			QM-07
Nickel	11.9	0.955	"	4.78	8.10	78.7	75-125			
Selenium	8.51	0.248	"	9.07	0.0390	93.3	75-125			
Silver	4.77	0.0955	"	4.78	0.0195	99.6	75-125			
Zinc	74.3	35.3	"	47.8	30.3	92.3	75-125			
Matrix Spike Dup (B4E0230-MSD1)		Source: Y405064-01			Prepared: 05/02/2024 Analyzed: 05/03/2024					
Arsenic	6.29	0.248	mg/kg	4.28	2.15	96.7	75-125	7.94	20	
Barium	466	8.56	"	428	54.2	96.2	75-125	6.14	20	
Cadmium	4.30	0.0856	"	4.28	0.0975	98.2	75-125	11.4	20	
Copper	46.9	8.56	"	42.8	8.97	88.7	75-125	10.6	20	
Lead	23.3	0.856	"	4.28	22.8	11.7	75-125	2.58	20	QM-07
Nickel	11.8	0.856	"	4.28	8.10	86.0	75-125	0.665	20	
Selenium	8.09	0.223	"	8.13	0.0390	99.0	75-125	5.01	20	
Silver	4.18	0.0856	"	4.28	0.0195	97.3	75-125	13.2	20	
Zinc	70.4	31.7	"	42.8	30.3	93.8	75-125	5.37	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0226 - EPA 3580

Blank (B4E0226-BLK1)

Prepared: 05/02/2024 Analyzed: 05/02/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200	100	60-130
Surrogate: Anthracene-d10	190		"	200	95.5	60-130
Surrogate: Pyrene-d10	240		"	200	118	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	105	60-130

LCS (B4E0226-BS1)

Prepared: 05/02/2024 Analyzed: 05/02/2024

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	108	70-130
2-Methylnaphthalene	0.216	0.002	"	0.200	108	70-130
Acenaphthene	0.223	0.020	"	0.200	111	70-130
Anthracene	0.214	0.020	"	0.200	107	70-130

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: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0226 - EPA 3580

LCS (B4E0226-BS1)

Prepared: 05/02/2024 Analyzed: 05/02/2024

Benzo (a) anthracene	0.216	0.005	mg/kg	0.200		108	70-130
Benzo (a) pyrene	0.226	0.020	"	0.200		113	70-130
Benzo (b) fluoranthene	0.228	0.020	"	0.200		114	70-130
Benzo (g,h,i) perylene	0.215	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.228	0.020	"	0.200		114	70-130
Chrysene	0.227	0.020	"	0.200		113	70-130
Dibenz (a,h) anthracene	0.217	0.020	"	0.200		109	70-130
Fluoranthene	0.207	0.020	"	0.200		103	70-130
Fluorene	0.225	0.020	"	0.200		113	70-130
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130
Naphthalene	0.220	0.002	"	0.200		110	70-130
Phenanthrene	0.225	0.020	"	0.200		112	70-130
Pyrene	0.241	0.020	"	0.200		120	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	190		"	200		95.1	60-130
Surrogate: Pyrene-d10	220		"	200		109	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130

Matrix Spike (B4E0226-MS1)

Source: Y405068-01

Prepared: 05/02/2024 Analyzed: 05/03/2024

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	ND	108	70-130
2-Methylnaphthalene	0.215	0.002	"	0.200	ND	107	70-130
Acenaphthene	0.220	0.020	"	0.200	ND	110	70-130
Anthracene	0.213	0.020	"	0.200	ND	106	70-130
Benzo (a) anthracene	0.216	0.005	"	0.200	ND	108	70-130
Benzo (a) pyrene	0.220	0.020	"	0.200	ND	110	70-130
Benzo (b) fluoranthene	0.236	0.020	"	0.200	ND	118	70-130
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	ND	110	70-130

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0226 - EPA 3580

Matrix Spike (B4E0226-MS1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/03/2024					
Benzo (k) fluoranthene	0.198	0.020	mg/kg	0.200	ND	98.8	70-130			
Chrysene	0.217	0.020	"	0.200	ND	108	70-130			
Dibenz (a,h) anthracene	0.237	0.020	"	0.200	ND	118	70-130			
Fluoranthene	0.199	0.020	"	0.200	ND	99.7	70-130			
Fluorene	0.225	0.020	"	0.200	ND	112	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.002	105	70-130			
Naphthalene	0.220	0.002	"	0.200	0.030	95.1	70-130			
Phenanthrene	0.220	0.020	"	0.200	ND	110	70-130			
Pyrene	0.225	0.020	"	0.200	ND	113	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4E0226-MSD1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/02/2024					
1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130	0.415	20	
2-Methylnaphthalene	0.215	0.002	"	0.200	ND	107	70-130	0.137	20	
Acenaphthene	0.221	0.020	"	0.200	ND	110	70-130	0.304	20	
Anthracene	0.228	0.020	"	0.200	ND	114	70-130	6.98	20	
Benzo (a) anthracene	0.216	0.005	"	0.200	ND	108	70-130	0.201	20	
Benzo (a) pyrene	0.227	0.020	"	0.200	ND	113	70-130	2.92	20	
Benzo (b) fluoranthene	0.223	0.020	"	0.200	ND	111	70-130	5.64	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130	1.44	20	
Benzo (k) fluoranthene	0.237	0.020	"	0.200	ND	119	70-130	18.2	20	
Chrysene	0.213	0.020	"	0.200	ND	106	70-130	1.81	20	
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	ND	115	70-130	3.19	20	
Fluoranthene	0.193	0.020	"	0.200	ND	96.5	70-130	3.17	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0226 - EPA 3580

Matrix Spike Dup (B4E0226-MSD1)		Source: Y405068-01			Prepared: 05/02/2024 Analyzed: 05/02/2024					
Fluorene	0.223	0.020	mg/kg	0.200	ND	111	70-130	0.750	20	
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	0.002	108	70-130	2.15	20	
Naphthalene	0.219	0.002	"	0.200	0.030	94.6	70-130	0.494	20	
Phenanthrene	0.222	0.020	"	0.200	ND	111	70-130	0.794	20	
Pyrene	0.252	0.020	"	0.200	ND	126	70-130	11.2	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	230		"	200		116	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0303 - Saturated Paste Metals

Blank (B4E0303-BLK1)

Prepared: 05/03/2024 Analyzed: 05/06/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B4E0303-DUP1)

Source: Y405067-01

Prepared: 05/03/2024 Analyzed: 05/06/2024

Calcium PPM	19.1	10.0	mg/L	24.1	23.2	50
SAR	ND	0.0100	SAR	4.57	200	
Magnesium PPM	7.64	10.0	mg/L	8.70	13.0	50
Sodium PPM	107	10.0	"	103	4.27	50

Batch B4E0308 - DTPA Sorbitol Preparation

Blank (B4E0308-BLK1)

Prepared: 05/03/2024 Analyzed: 05/07/2024

Boron	ND	0.100	mg/L
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Duplicate (B4E0308-DUP1)

Source: Y405064-01

Prepared: 05/03/2024 Analyzed: 05/07/2024

Boron	0.166	0.101	mg/L	0.162	2.50	50
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 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 B4E0313 - Saturated Paste pH/EC										
Blank (B4E0313-BLK1)					Prepared: 05/03/2024 Analyzed: 05/05/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E0313-DUP1)					Source: Y405067-01 Prepared: 05/03/2024 Analyzed: 05/05/2024					
Specific Conductance (EC)	0.638	0.00500	mmhos/cm		0.685			7.11	25	
pH	9.24		pH Units		9.29			0.540	25	
Batch B4E0724 - Saturated Paste pH/EC										
Duplicate (B4E0724-DUP1)					Source: Y405020-01 Prepared: 05/07/2024 Analyzed: 05/08/2024					
pH	8.27		pH Units		8.25			0.242	25	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hort-Memco 1-22 Wellhead

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2614762 - SW846 3060A										
BLANK (1205739388-BLK)					Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	ND	0.357	mg/kg				-			U
LCS (1205739389-BKS)					Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	3.82	0.387	mg/kg	3.87		98.6	80-120			
DUP (1205739390 D)					Source: 667057008 Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	ND	0.321	mg/kg dry		<0.128		0-50	N/A	50	U
MS (1205739391 S)					Source: 667057008 Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	2.74	0.321	mg/kg dry	3.21	<0.128	83.8	75-125			
DUP (1205739392 D)					Source: Y405067-12 Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	ND	0.408	mg/kg dry		<0.163		0-50	N/A	50	U
MS (1205739393 S)					Source: Y405067-12 Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	3.58	0.409	mg/kg dry	4.09	<0.164	86	75-125			
ILCS (1205739394-ILCS)					Prepared: 05/21/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	7.84	0.379	mg/kg	7.70		102	80-120			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417672

Project: KMG - Hort-Memco 1-22 Wellhead

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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 25, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Hart-Memco 1-22 Wellhead Project Number - 09A1417672

Attached are your analytical results for KMG - Hart-Memco 1-22 Wellhead received by Origins Laboratory, Inc. June 10, 2024. This project is associated with Origins project number Y406262-01.

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: 09A1417672

Project: KMG - Hart-Memco 1-22 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-RISER@4'	Y406262-01	Soil	June 10, 2024 13:00	06/10/2024 15:51

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: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406202

Client: Ensolum

Client Project ID: Hart-Memco

Checklist Completed by: EHO

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

Date/time completed: 6/10/24

Airbill #: N/A

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

Cooler Number/Temperature: 117 °C 1 °C 1 °C (Describe)

Thermometer ID: T005

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.

EHO
Reviewed by (Project Manager)

6/10/24
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: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

SEP01-RISER@4'
6/10/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406262-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.369	0.0985	mg/L	1	B4F1105	06/11/2024	06/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1001	06/10/2024	06/11/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	79.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1033	"	06/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	
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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: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

SEP01-RISER@4'

6/10/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406262-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.4 %	70-130	B4F1033	06/10/2024	06/10/2024
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.91	0.499	meq/L	10	[CALC]	06/11/2024	06/12/2024
Magnesium	0.861	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1032	06/10/2024	06/12/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

SEP01-RISER@4'

6/10/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406262-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1032	06/10/2024	06/12/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B4F1114	06/11/2024	06/11/2024
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SAR by 20B Saturated Paste

SAR	0.147	0.0100	SAR	1	B4F1108	06/11/2024	06/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.296	0.00500	mmhos/cm	1	B4F1114	06/11/2024	06/11/2024
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Table 915 metals by EPA 6020B

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

SEP01-RISER@4'

6/10/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406262-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.02	0.273	mg/kg	10	B4F1034	06/10/2024	06/11/2024
Barium	160	9.41	"	"	"	"	"
Cadmium	0.303	0.0941	"	"	"	"	"
Copper	13.9	9.41	"	"	"	"	"
Lead	11.5	0.941	"	"	"	"	"
Nickel	15.6	0.941	"	"	"	"	"
Selenium	0.343	0.245	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	58.2	34.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.173	0.432	mg/kg dry	1	2630222	06/21/2024	06/22/2024	U
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Project: KMG - Hart-Memco 1-22 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 B4F1001 - EPA 3550B										
Blank (B4F1001-BLK1)					Prepared: 06/10/2024 Analyzed: 06/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		81.7	50-150			

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1001 - EPA 3550B

LCS (B4F1001-BS1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000		95.8	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1001 - EPA 3550B

Matrix Spike (B4F1001-MS1)		Source: Y406261-01			Prepared: 06/10/2024 Analyzed: 06/11/2024					
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130			
Residual Range Organics (C28-C40)	904	200	"	1000	ND	90.4	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1001 - EPA 3550B

Matrix Spike Dup (B4F1001-MSD1)		Source: Y406261-01			Prepared: 06/10/2024 Analyzed: 06/11/2024					
Diesel (C10-C28)	851	50.0	mg/kg	1000	ND	85.1	70-130	2.51	35	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130	3.19	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Project: KMG - Hart-Memco 1-22 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 B4F1033 - EPA 5030 (soil)										
Blank (B4F1033-BLK1)					Prepared: 06/10/2024 Analyzed: 06/10/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1033 - EPA 5030 (soil)

LCS (B4F1033-BS1)

Prepared: 06/10/2024 Analyzed: 06/10/2024

1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100		89.3	70-130			
1,3,5-Trimethylbenzene	0.0892	0.00200	"	0.100		89.2	70-130			
Benzene	0.0882	0.00200	"	0.100		88.2	70-130			
Ethylbenzene	0.0842	0.00200	"	0.100		84.2	70-130			
Naphthalene	0.0881	0.00380	"	0.100		88.1	70-130			
Toluene	0.0879	0.00200	"	0.100		87.9	70-130			
o-Xylene	0.0836	0.00200	"	0.100		83.6	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: KMG - Hart-Memco 1-22 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 B4F1033 - EPA 5030 (soil)

Matrix Spike (B4F1033-MS1)		Source: Y406261-01			Prepared: 06/10/2024 Analyzed: 06/10/2024					
1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100	ND	84.2	70-130			
1,3,5-Trimethylbenzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Benzene	0.0834	0.00200	"	0.100	ND	83.4	70-130			
Ethylbenzene	0.0780	0.00200	"	0.100	ND	78.0	70-130			
Naphthalene	0.0880	0.00380	"	0.100	ND	88.0	70-130			
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
o-Xylene	0.0783	0.00200	"	0.100	ND	78.3	70-130			
m,p-Xylene	0.160	0.00400	"	0.200	ND	80.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project: KMG - Hart-Memco 1-22 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 B4F1033 - EPA 5030 (soil)										
Matrix Spike Dup (B4F1033-MSD1)			Source: Y406261-01		Prepared: 06/10/2024 Analyzed: 06/10/2024					
1,2,4-Trimethylbenzene	0.0848	0.00200	mg/kg	0.100	ND	84.8	70-130	0.734	20	
1,3,5-Trimethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	0.861	20	
Benzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	0.812	20	
Ethylbenzene	0.0799	0.00200	"	0.100	ND	79.9	70-130	2.31	20	
Naphthalene	0.0909	0.00380	"	0.100	ND	90.9	70-130	3.24	20	
Toluene	0.0833	0.00200	"	0.100	ND	83.3	70-130	0.646	20	
o-Xylene	0.0799	0.00200	"	0.100	ND	79.9	70-130	2.07	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.3	70-130	0.187	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1034 - EPA 3050B

Blank (B4F1034-BLK1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4F1034-BS1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

Arsenic	5.19	0.290	mg/kg	5.00	104	80-120
Barium	544	10.0	"	500	109	80-120
Cadmium	5.59	0.100	"	5.00	112	80-120
Copper	52.8	10.0	"	50.0	106	80-120
Lead	5.38	1.00	"	5.00	108	80-120
Nickel	5.50	1.00	"	5.00	110	80-120
Selenium	10.4	0.260	"	9.50	109	80-120
Silver	5.40	0.100	"	5.00	108	80-120
Zinc	52.5	37.0	"	50.0	105	80-120

Matrix Spike (B4F1034-MS1)

Source: Y406266-03

Prepared: 06/10/2024 Analyzed: 06/11/2024

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1034 - EPA 3050B										
Matrix Spike (B4F1034-MS1)			Source: Y406266-03		Prepared: 06/10/2024 Analyzed: 06/11/2024					
Arsenic	7.32	0.247	mg/kg	4.26	2.99	102	75-125			
Barium	538	8.51	"	426	35.5	118	75-125			
Cadmium	5.02	0.0851	"	4.26	0.0238	117	75-125			
Copper	51.8	8.51	"	42.6	2.82	115	75-125			
Lead	13.9	0.851	"	4.26	8.49	126	75-125			QM-07
Nickel	8.37	0.851	"	4.26	3.39	117	75-125			
Selenium	9.68	0.221	"	8.09	0.173	118	75-125			
Silver	5.06	0.0851	"	4.26	0.0153	118	75-125			
Zinc	73.9	31.5	"	42.6	28.4	107	75-125			
Matrix Spike Dup (B4F1034-MSD1)			Source: Y406266-03		Prepared: 06/10/2024 Analyzed: 06/11/2024					
Arsenic	15.6	0.265	mg/kg	4.57	2.99	276	75-125	72.1	20	QR-DUP
Barium	574	9.13	"	457	35.5	118	75-125	6.44	20	
Cadmium	5.36	0.0913	"	4.57	0.0238	117	75-125	6.49	20	
Copper	57.4	9.13	"	45.7	2.82	119	75-125	10.2	20	
Lead	17.4	0.913	"	4.57	8.49	195	75-125	22.6	20	QM-07
Nickel	9.49	0.913	"	4.57	3.39	133	75-125	12.6	20	QM-07
Selenium	10.1	0.237	"	8.68	0.173	114	75-125	4.24	20	
Silver	5.34	0.0913	"	4.57	0.0153	117	75-125	5.52	20	
Zinc	90.4	33.8	"	45.7	28.4	136	75-125	20.1	20	QM-07

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1032 - EPA 3580

Blank (B4F1032-BLK1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200	98.7	60-130
Surrogate: Anthracene-d10	190		"	200	96.3	60-130
Surrogate: Pyrene-d10	190		"	200	97.2	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	105	60-130

LCS (B4F1032-BS1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	102	70-130
2-Methylnaphthalene	0.206	0.002	"	0.200	103	70-130
Acenaphthene	0.195	0.020	"	0.200	97.5	70-130
Anthracene	0.192	0.020	"	0.200	95.8	70-130

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1032 - EPA 3580

LCS (B4F1032-BS1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

Benzo (a) anthracene	0.206	0.005	mg/kg	0.200		103	70-130
Benzo (a) pyrene	0.210	0.020	"	0.200		105	70-130
Benzo (b) fluoranthene	0.220	0.020	"	0.200		110	70-130
Benzo (g,h,i) perylene	0.217	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.3	70-130
Chrysene	0.200	0.020	"	0.200		99.8	70-130
Dibenz (a,h) anthracene	0.216	0.020	"	0.200		108	70-130
Fluoranthene	0.193	0.020	"	0.200		96.7	70-130
Fluorene	0.198	0.020	"	0.200		99.0	70-130
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.204	0.020	"	0.200		102	70-130
Pyrene	0.206	0.020	"	0.200		103	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130
Surrogate: Anthracene-d10	190		"	200		94.7	60-130
Surrogate: Pyrene-d10	190		"	200		96.4	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130

Matrix Spike (B4F1032-MS1)

Source: Y406261-01

Prepared: 06/10/2024 Analyzed: 06/11/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.0006	99.4	70-130
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130
Acenaphthene	0.194	0.020	"	0.200	0.002	95.8	70-130
Anthracene	0.186	0.020	"	0.200	ND	93.2	70-130
Benzo (a) anthracene	0.202	0.005	"	0.200	0.0006	101	70-130
Benzo (a) pyrene	0.202	0.020	"	0.200	0.001	100	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200	ND	109	70-130
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	0.001	108	70-130

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

Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1032 - EPA 3580

Matrix Spike (B4F1032-MS1)		Source: Y406261-01			Prepared: 06/10/2024 Analyzed: 06/11/2024					
Benzo (k) fluoranthene	0.175	0.020	mg/kg	0.200	ND	87.6	70-130			
Chrysene	0.202	0.020	"	0.200	0.0008	101	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.003	112	70-130			
Fluoranthene	0.194	0.020	"	0.200	ND	97.1	70-130			
Fluorene	0.204	0.020	"	0.200	0.0006	102	70-130			
Indeno (1,2,3-cd) pyrene	0.224	0.020	"	0.200	0.002	111	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	98.8	70-130			
Phenanthrene	0.203	0.020	"	0.200	ND	101	70-130			
Pyrene	0.197	0.020	"	0.200	0.001	98.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4F1032-MSD1)		Source: Y406261-01			Prepared: 06/10/2024 Analyzed: 06/11/2024					
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	0.0006	92.0	70-130	7.74	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.6	70-130	1.56	20	
Acenaphthene	0.178	0.020	"	0.200	0.002	87.8	70-130	8.68	20	
Anthracene	0.179	0.020	"	0.200	ND	89.6	70-130	3.97	20	
Benzo (a) anthracene	0.213	0.005	"	0.200	0.0006	106	70-130	5.67	20	
Benzo (a) pyrene	0.176	0.020	"	0.200	0.001	87.4	70-130	13.8	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	ND	100	70-130	8.20	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.001	96.7	70-130	11.3	20	
Benzo (k) fluoranthene	0.154	0.020	"	0.200	ND	77.1	70-130	12.7	20	
Chrysene	0.199	0.020	"	0.200	0.0008	99.3	70-130	1.25	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	0.003	98.1	70-130	12.7	20	
Fluoranthene	0.194	0.020	"	0.200	ND	96.9	70-130	0.138	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 B4F1032 - EPA 3580

Matrix Spike Dup (B4F1032-MSD1)		Source: Y406261-01			Prepared: 06/10/2024 Analyzed: 06/11/2024					
Fluorene	0.178	0.020	mg/kg	0.200	0.0006	88.7	70-130	13.4	20	
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200	0.002	113	70-130	1.44	20	
Naphthalene	0.176	0.002	"	0.200	ND	88.2	70-130	11.4	20	
Phenanthrene	0.187	0.020	"	0.200	ND	93.5	70-130	8.01	20	
Pyrene	0.198	0.020	"	0.200	0.001	98.3	70-130	0.307	20	
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	180		"	200		87.9	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1105 - DTPA Sorbitol Preparation

Blank (B4F1105-BLK1)

Prepared: 06/11/2024 Analyzed: 06/12/2024

Boron ND 0.100 mg/L

Duplicate (B4F1105-DUP1)

Source: Y406261-01

Prepared: 06/11/2024 Analyzed: 06/12/2024

Boron 0.245 0.0998 mg/L 0.232 5.43 50

Batch B4F1108 - Saturated Paste Metals

Blank (B4F1108-BLK1)

Prepared: 06/11/2024 Analyzed: 06/12/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4F1108-DUP1)

Source: Y406261-01

Prepared: 06/11/2024 Analyzed: 06/12/2024

SAR ND 0.0100 SAR 3.77 200

Calcium PPM 67.8 10.0 mg/L 72.0 6.01 50

Magnesium PPM 20.7 10.0 " 21.5 3.88 50

Sodium PPM 140 10.0 " 142 1.06 50

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 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 B4F1114 - Saturated Paste pH/EC										
Blank (B4F1114-BLK1)					Prepared: 06/11/2024 Analyzed: 06/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1114-DUP1)					Source: Y406261-01 Prepared: 06/11/2024 Analyzed: 06/11/2024					
pH	7.80		pH Units		8.08			3.53	25	
Specific Conductance (EC)	1.22	0.00500	mmhos/cm		1.22			0.172	25	

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2630222 - SW846 3060A										
BLANK (1205768966-BLK)					Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	ND	0.275	mg/kg				-			U
LCS (1205768967-BKS)					Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	3.20	0.324	mg/kg	3.24		98.8	80-120			
DUP (1205768968 D)					Source: 671427001 Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	ND	0.327	mg/kg dry		<0.131		0-50	N/A	50	U
MS (1205768969 S)					Source: 671427001 Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	2.61	0.327	mg/kg dry	3.27	<0.131	77.5	75-125			
DUP (1205768970 D)					Source: 671499002 Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	ND	0.318	mg/kg dry		<0.127		0-50	N/A	50	U
MS (1205768971 S)					Source: 671499002 Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	2.64	0.318	mg/kg dry	3.18	<0.127	81.9	75-125			
ILCS (1205768972-ILCS)					Prepared: 06/21/2024 Analyzed: 06/22/2024					
Hexavalent Chromium	6.83	0.333	mg/kg	6.83		99.9	80-120			

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Jeremy Espinoza
Project Number: 09A1417672
Project: KMG - Hart-Memco 1-22 Wellhead

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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.



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