

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
RADEMACHER 32-30 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	12/28/2023	3	0.1	NS	NO	40.19554186	-104.9389248	N
E Wall	12/28/2023	3	0.1	NS	NO	40.19553228	-104.9389123	N
S Wall	12/28/2023	3	0.0	NS	NO	40.19552763	-104.9389238	N
W Wall	12/28/2023	3	0.3	NS	NO	40.19553694	-104.9389388	N
WH01-RISER @3'	12/28/2023	3	0.3	NS	NO	40.19553195	-104.938939	Y
B01 @6'	12/28/2023	6	1.5	NS	NO	40.19554178	-104.9389263	Y
	1/11/2024		3.8	NS	NO	40.19554178	-104.9389263	Y
FS01	12/28/2023	0.5	0.0	NS	NO	40.1955792	-104.9389192	N
FS02	12/28/2023	0.5	0.0	NS	NO	40.19554117	-104.9388656	N
FS03	12/28/2023	0.5	0.0	NS	NO	40.19548413	-104.938933	N
FS04	12/28/2023	0.5	0.0	NS	NO	40.1955359	-104.9389873	N
FLOWLINE POTHOLE SAMPLES								
FL01 @4'	1/2/2024	4	42.3	NS	Odor	40.19215247	-104.9385974	Y
SEPARATOR RISER SAMPLES								
SEP01-RISER @4'	1/2/2024	4	0.1	NS	NO	40.19208709	-104.9385846	Y
BACKGROUND SOIL SAMPLES								
NATIVE-BG01 @3'	12/28/2023	3	0.0	NS	NO	40.19560148	-104.9388661	Y
NATIVE-BG01 @6'	12/28/2023	6	0.0	NS	NO	40.19560148	-104.9388661	Y
NATIVE-BG02 @3'	12/28/2023	3	0.0	NS	NO	40.19552673	-104.9387789	Y
NATIVE-BG02 @6'	12/28/2023	6	0.0	NS	NO	40.19552673	-104.9387789	Y
NATIVE-BG03 @3'	12/28/2023	3	0.0	NS	NO	40.1954532	-104.9389667	Y
NATIVE-BG03 @6'	12/28/2023	6	0.0	NS	NO	40.1954532	-104.9389667	Y
NATIVE-BG04 @3'	12/28/2023	3	0.4	NS	NO	40.1955599	-104.9390163	Y
NATIVE-BG04 @6'	12/28/2023	6	0.7	NS	NO	40.1955599	-104.9390163	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
RADEMACHER 32-30 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 @3'	12/28/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B01 @6'	12/28/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	1/11/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01 @4'	1/2/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
SEPARATOR RISER SAMPLES												
SEP01-RISER @4'	1/2/2024	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
RADEMACHER 32-30 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 @3'	12/28/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B01 @6'	12/28/2023	6	<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
	1/11/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES																
FL01 @4'	1/2/2024	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
SEPARATOR RISER SAMPLES																
SEP01-RISER @4'	1/2/2024	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

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
RADEMACHER 32-30 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 (3'-6')			2.45	3.55	8.38	0.534
WELLHEAD EXCAVATION SAMPLES						
WH01-RISER @3'	12/28/2023	3	0.667	0.181	8.19	0.351
B01 @6'	12/28/2023	6	6.86	0.898	11.0	0.587
	1/11/2024		0.732	NA	8.37*	NA
FLOWLINE POTHOLE SAMPLES						
FL01 @4'	1/2/2024	4	1.770	1.85	8.17	0.438
SEPARATOR RISER SAMPLES						
SEP01-RISER @4'	1/2/2024	4	0.358	0.564	8.38*	0.385
BACKGROUND SAMPLES						
NATIVE-BG01 @3'	12/28/2023	3	0.567	1.89	8.33	0.510
NATIVE-BG01 @6'	12/28/2023	6	0.799	2.29	8.38	0.290
NATIVE-BG02 @3'	12/28/2023	3	0.419	0.511	8.29	0.283
NATIVE-BG02 @6'	12/28/2023	6	0.462	1.28	8.29	0.293
NATIVE-BG03 @3'	12/28/2023	3	2.45	3.55	8.02	0.534
NATIVE-BG03 @6'	12/28/2023	6	1.14	0.985	8.28	0.221
NATIVE-BG04 @3'	12/28/2023	3	0.770	1.51	8.28	0.380
NATIVE-BG04 @6'	12/28/2023	6	1.12	1.71	8.29	0.329

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 analytical variability of background

^ - site-specific background is shown as 1.08x maximum background to account for analytical variability

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
RADEMACHER 32-30 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^ (3'-6')			8.85	270	0.251	NA	12.5	12.0	14.5	0.286	NA	54.8
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER @3'	12/28/2023	3	5.96*	245*	0.200	<0.5	14.0	9.93	11.8	0.222	<0.0937	45.7
B01 @6'	12/28/2023	6	5.59*	1660	0.198	<0.5	17.7	9.33	15.8	0.152	<0.0930	41.5
	1/11/2024		NA	59.1	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01 @4'	1/2/2024	4	4.88*	45.5	<0.0866	<0.5	<8.66	5.02	4.66	<0.0866	<0.0866	23.5
SEPARATOR RISER SAMPLES												
SEP01-RISER @4'	1/2/2024	4	5.77*	100*	<0.0905	<0.5	<9.05	7.36	7.36	<0.0905	<0.0905	33.0
BACKGROUND SAMPLES												
NATIVE-BG01 @3'	12/28/2023	3	7.08	141	0.137	<0.5	<9.70	8.34	9.32	0.210	<0.0970	33.7
NATIVE-BG01 @6'	12/28/2023	6	3.79	106	0.0965	<0.5	<8.95	5.41	6.39	<0.0894	<0.0894	23.5
NATIVE-BG02 @3'	12/28/2023	3	6.09	190	0.201	<0.5	10.0	9.57	11.6	0.229	<0.0952	43.8
NATIVE-BG02 @6'	12/28/2023	6	3.88	156	0.0973	<0.5	<9.10	5.08	5.60	<0.0910	<0.0910	21.8
NATIVE-BG03 @3'	12/28/2023	3	3.75	216	<0.0925	<0.5	<9.25	6.19	7.71	<0.0925	<0.0925	26.1
NATIVE-BG03 @6'	12/28/2023	6	2.59	183	<0.0928	<0.5	<9.28	6.39	5.96	<0.0928	<0.0928	28.2
NATIVE-BG04 @3'	12/28/2023	3	3.88	139	<0.0946	<0.5	<9.46	4.74	5.89	0.164	<0.0946	19.6
NATIVE-BG04 @6'	12/28/2023	6	4.78	186	0.116	<0.5	<9.42	6.85	8.03	0.186	<0.0942	28.1

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 analytical variability of background

^ - site-specific background is shown as 1.25x maximum background to account for analytical variability

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

January 10, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Rademacher 32-30WH

Project Number - 09A1417404

Attached are your analytical results for KMG - Rademacher 32-30WH received by Origins Laboratory, Inc. December 28, 2023. This project is associated with Origins project number Y312734-01.

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

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

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

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

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

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



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y312734-01	Soil	December 28, 2023 9:15	12/28/2023 17:20
WH01-RISER@3'	Y312734-02	Soil	December 28, 2023 9:30	12/28/2023 17:20
NATIVE-BG01@3'	Y312734-03	Soil	December 28, 2023 10:01	12/28/2023 17:20
NATIVE-BG01@6'	Y312734-04	Soil	December 28, 2023 10:02	12/28/2023 17:20
NATIVE-BG02@3'	Y312734-05	Soil	December 28, 2023 10:04	12/28/2023 17:20
NATIVE-BG02@6'	Y312734-06	Soil	December 28, 2023 10:05	12/28/2023 17:20
NATIVE-BG03@3'	Y312734-07	Soil	December 28, 2023 10:07	12/28/2023 17:20
NATIVE-BG03@6'	Y312734-08	Soil	December 28, 2023 10:08	12/28/2023 17:20
NATIVE-BG04@3'	Y312734-09	Soil	December 28, 2023 10:10	12/28/2023 17:20
NATIVE-BG04@6'	Y312734-10	Soil	December 28, 2023 10:09	12/28/2023 17:20

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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

ORIGINS

LABORATORY, INC

Initial: **4312734** page **3** of **4**

www.originslaboratory.com

Client: Ensolum
Address: _____
Telephone Number: _____
Email Address: KMG Team

Project Manager: J. Espinoza
Project Name: Rademacher 32-30 WH
Project Number: 09A1417404
Samples Collected By: HK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other			
BOL-61	12/28/23	0915	3	X					X	
WHEELER-31		0930	3						X	
NATIVE-REG-31		1001	2						X	
NATIVE-REG-31		1002							X	
NATIVE-REG-2-31		1004							X	
NATIVE-REG-2-31		1005							X	
NATIVE-REG-3-31		1007							X	
NATIVE-REG-5-61		1008							X	
NATIVE-REG-4-31		1010							X	
NATIVE-REG-4-61		1009							X	
Relinquished By: <u>[Signature]</u>	Date: <u>12/28/23</u>	Time: <u>1420</u>	Received By: <u>[Signature]</u>	Date: <u>12/28/23</u>	Time: <u>1700</u>	Turnaround Time: Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				

Temp Received: 3 Date Results Needed: _____

Origins Laboratory, Inc.

Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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

Sample Receipt Checklist

Origins Work Order: YB12734 Client: Ensolum
Client Project ID: Rademacher 32-30 WH
Checklist Completed by: ESH Shipped Via: HV
Date/time completed: 12/28/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1, 3 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 12/28/23

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

B01@6'

12/28/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.587	0.0999	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.2 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L2826	12/28/2023	12/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.5 %	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: 09A1417404
Project: KMG - Rademacher 32-30WH

B01@6'

12/28/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.9 %	70-130	B3L28 26	12/28/2023	12/28/2023
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	31.0	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.53	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

B01@6'

12/28/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	114 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

pH in Soil by 9045D

pH	11.0	pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	0.898	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.86	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

B01@6'

12/28/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.59	0.0930	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	1660	9.30	"	"	"	"	"
Cadmium	0.198	0.0930	"	"	"	"	"
Copper	17.7	9.30	"	"	"	"	"
Lead	9.33	0.930	"	"	"	"	"
Nickel	15.8	0.930	"	"	"	"	"
Selenium	0.152	0.0930	"	"	"	"	"
Silver	ND	0.0930	"	"	"	"	"
Zinc	41.5	9.30	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726554	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

WH01-RISER@3'
12/28/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.351	0.100	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.1 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L2826	12/28/2023	12/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.9 %	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: 09A1417404
Project: KMG - Rademacher 32-30WH

WH01-RISER@3'

12/28/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.0 %	70-130	B3L28 26	12/28/2023	12/28/2023
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.48	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	3.11	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

WH01-RISER@3'
12/28/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	84.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.19	pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	0.181	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.667	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

WH01-RISER@3'

12/28/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.96	0.0937	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	245	9.37	"	"	"	"	"
Cadmium	0.200	0.0937	"	"	"	"	"
Copper	14.0	9.37	"	"	"	"	"
Lead	9.93	0.937	"	"	"	"	"
Nickel	11.8	0.937	"	"	"	"	"
Selenium	0.222	0.0937	"	"	"	"	"
Silver	ND	0.0937	"	"	"	"	"
Zinc	45.7	9.37	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726554	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG01@3'
12/28/2023 10:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.510	0.0987	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.10	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	1.58	0.823	"	"	"	"	"
Sodium	2.19	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	1.89	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.567	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	7.08	0.0970	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	141	9.70	"	"	"	"	"
Cadmium	0.137	0.0970	"	"	"	"	"
Copper	ND	9.70	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG01@3'

12/28/2023 10:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-03 (Soil)

Table 915 metals by EPA 6020B

Lead	8.34	0.970	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	9.32	0.970	"	"	"	"	"
Selenium	0.210	0.0970	"	"	"	"	"
Silver	ND	0.0970	"	"	"	"	"
Zinc	33.7	9.70	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726554	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG01@6'
12/28/2023 10:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.290	0.0988	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.39	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	2.55	0.823	"	"	"	"	"
Sodium	3.21	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.38		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	2.29	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.799	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	3.79	0.0894	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	106	8.94	"	"	"	"	"
Cadmium	0.0965	0.0894	"	"	"	"	"
Copper	ND	8.94	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG01@6'

12/28/2023 10:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-04 (Soil)

Table 915 metals by EPA 6020B

Lead	5.41	0.894	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	6.39	0.894	"	"	"	"	"
Selenium	ND	0.0894	"	"	"	"	"
Silver	ND	0.0894	"	"	"	"	"
Zinc	23.5	8.94	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726554	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG02@3'
12/28/2023 10:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.283	0.100	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.66	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	0.645	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	0.511	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.419	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	6.09	0.0952	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	190	9.52	"	"	"	"	"
Cadmium	0.201	0.0952	"	"	"	"	"
Copper	10.0	9.52	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG02@3'

12/28/2023 10:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-05 (Soil)

Table 915 metals by EPA 6020B

Lead	9.57	0.952	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	11.6	0.952	"	"	"	"	"
Selenium	0.229	0.0952	"	"	"	"	"
Silver	ND	0.0952	"	"	"	"	"
Zinc	43.8	9.52	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726554	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG02@6'
12/28/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.293	0.101	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.33	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	1.34	0.823	"	"	"	"	"
Sodium	1.48	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	1.28	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.462	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	3.88	0.0910	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	156	9.10	"	"	"	"	"
Cadmium	0.0973	0.0910	"	"	"	"	"
Copper	ND	9.10	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG02@6'

12/28/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-06 (Soil)

Table 915 metals by EPA 6020B

Lead	5.08	0.910	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	5.60	0.910	"	"	"	"	"
Selenium	ND	0.0910	"	"	"	"	"
Silver	ND	0.0910	"	"	"	"	"
Zinc	21.8	9.10	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726555	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG03@3'
12/28/2023 10:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.534	0.100	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	7.51	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	8.94	0.823	"	"	"	"	"
Sodium	10.2	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.02		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	3.55	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.45	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	3.75	0.0925	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	216	9.25	"	"	"	"	"
Cadmium	ND	0.0925	"	"	"	"	"
Copper	ND	9.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG03@3'

12/28/2023 10:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-07 (Soil)

Table 915 metals by EPA 6020B

Lead	6.19	0.925	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	7.71	0.925	"	"	"	"	"
Selenium	ND	0.0925	"	"	"	"	"
Silver	ND	0.0925	"	"	"	"	"
Zinc	26.1	9.25	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726555	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG03@6'
12/28/2023 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.221	0.0994	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.94	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	5.82	0.823	"	"	"	"	"
Sodium	2.06	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	0.985	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	2.59	0.0928	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	183	9.28	"	"	"	"	"
Cadmium	ND	0.0928	"	"	"	"	"
Copper	ND	9.28	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG03@6'

12/28/2023 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-08 (Soil)

Table 915 metals by EPA 6020B

Lead	6.39	0.928	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	5.96	0.928	"	"	"	"	"
Selenium	ND	0.0928	"	"	"	"	"
Silver	ND	0.0928	"	"	"	"	"
Zinc	28.2	9.28	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726555	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG04@3'
12/28/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.380	0.101	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.33	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	2.74	0.823	"	"	"	"	"
Sodium	2.40	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	1.51	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.770	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	3.88	0.0946	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	139	9.46	"	"	"	"	"
Cadmium	ND	0.0946	"	"	"	"	"
Copper	ND	9.46	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG04@3'

12/28/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312734-09 (Soil)

Table 915 metals by EPA 6020B

Lead	4.74	0.946	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	5.89	0.946	"	"	"	"	"
Selenium	0.164	0.0946	"	"	"	"	"
Silver	ND	0.0946	"	"	"	"	"
Zinc	19.6	9.46	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726555	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG04@6'
12/28/2023 10:09:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.329	0.0988	mg/L	1	B3L2901	12/29/2023	01/02/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.17	0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024
Magnesium	4.11	0.823	"	"	"	"	"
Sodium	3.26	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B3L2908	12/29/2023	12/30/2023
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SAR by 20B Saturated Paste

SAR	1.71	0.0100	SAR	1	B3L2905	12/29/2023	01/02/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.12	0.00500	mmhos/cm	1	B3L2908	12/29/2023	12/30/2023
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Table 915 metals by EPA 6020B

Arsenic	4.78	0.0942	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Barium	186	9.42	"	"	"	"	"
Cadmium	0.116	0.0942	"	"	"	"	"
Copper	ND	9.42	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

NATIVE-BG04@6'
12/28/2023 10:09:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312734-10 (Soil)

Table 915 metals by EPA 6020B

Lead	6.85	0.942	mg/kg	10	B3L2820	12/28/2023	12/29/2023
Nickel	8.03	0.942	"	"	"	"	"
Selenium	0.186	0.0942	"	"	"	"	"
Silver	ND	0.0942	"	"	"	"	"
Zinc	28.1	9.42	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726555	12/28/2023	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2826 - EPA 5030 (soil)										
Blank (B3L2826-BLK1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		79.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2826 - EPA 5030 (soil)										
LCS (B3L2826-BS1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100		93.3	70-130			
1,3,5-Trimethylbenzene	0.0926	0.00200	"	0.100		92.6	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0966	0.00380	"	0.100		96.6	70-130			
Toluene	0.0934	0.00200	"	0.100		93.4	70-130			
o-Xylene	0.0940	0.00200	"	0.100		94.0	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2826 - EPA 5030 (soil)

Matrix Spike (B3L2826-MS1)		Source: Y312751-03			Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	0.0865	0.00200	mg/kg	0.100	0.00100	85.5	70-130			
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
Benzene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
Ethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Naphthalene	0.0869	0.00380	"	0.100	ND	86.9	70-130			
Toluene	0.0898	0.00200	"	0.100	ND	89.8	70-130			
o-Xylene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.099		"	0.125		79.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2826 - EPA 5030 (soil)										
Matrix Spike Dup (B3L2826-MSD1)		Source: Y312751-03			Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	0.0836	0.00200	mg/kg	0.100	0.00100	82.6	70-130	3.36	20	
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	3.16	20	
Benzene	0.0901	0.00200	"	0.100	ND	90.1	70-130	3.89	20	
Ethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130	3.84	20	
Naphthalene	0.0865	0.00380	"	0.100	ND	86.5	70-130	0.461	20	
Toluene	0.0855	0.00200	"	0.100	ND	85.5	70-130	4.91	20	
o-Xylene	0.0852	0.00200	"	0.100	ND	85.2	70-130	3.25	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.9	70-130	3.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

Origins Laboratory, Inc.

Byron

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2828 - EPA 3550B										
Blank (B3L2828-BLK1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.8	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2828 - EPA 3550B

LCS (B3L2828-BS1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.8	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2828 - EPA 3550B

Matrix Spike (B3L2828-MS1)		Source: Y312751-03			Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.2	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2828 - EPA 3550B										
Matrix Spike Dup (B3L2828-MSD1)		Source: Y312751-03			Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130	2.21	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	0.264	35	
Surrogate: o-Terphenyl	36		"	49.8		72.2	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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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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 B3L2820 - EPA 3050B

Blank (B3L2820-BLK1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

Arsenic	ND	0.0100	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.0100	"
Copper	ND	1.00	"
Lead	ND	0.100	"
Nickel	ND	0.100	"
Selenium	ND	0.0100	"
Silver	ND	0.0100	"
Zinc	ND	1.00	"

LCS (B3L2820-BS1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

Arsenic	4.86	0.0100	mg/kg	5.00	97.2	80-120
Barium	511	1.00	"	500	102	80-120
Cadmium	5.14	0.0100	"	5.00	103	80-120
Copper	50.5	1.00	"	50.0	101	80-120
Lead	5.12	0.100	"	5.00	102	80-120
Nickel	4.85	0.100	"	5.00	97.1	80-120
Selenium	4.81	0.0100	"	5.00	96.3	80-120
Silver	5.17	0.0100	"	5.00	103	80-120
Zinc	48.0	1.00	"	50.0	95.9	80-120

Matrix Spike (B3L2820-MS1)

Source: Y312734-02

Prepared: 12/28/2023 Analyzed: 12/29/2023

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2820 - EPA 3050B

Matrix Spike (B3L2820-MS1)		Source: Y312734-02			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	9.89	0.0939	mg/kg	4.70	5.96	83.8	75-125			
Barium	787	9.39	"	470	245	115	75-125			QM-07
Cadmium	5.51	0.0939	"	4.70	0.200	113	75-125			
Copper	59.3	9.39	"	47.0	14.0	96.4	75-125			
Lead	14.4	0.939	"	4.70	9.93	96.2	75-125			QM-07
Nickel	15.3	0.939	"	4.70	11.8	74.8	75-125			QM-07
Selenium	4.75	0.0939	"	4.70	0.222	96.4	75-125			
Silver	5.16	0.0939	"	4.70	0.0440	109	75-125			
Zinc	88.3	9.39	"	47.0	45.7	90.8	75-125			
Matrix Spike Dup (B3L2820-MSD1)		Source: Y312734-02			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	9.51	0.0841	mg/kg	4.20	5.96	84.5	75-125	3.95	20	
Barium	721	8.41	"	420	245	113	75-125	8.68	20	
Cadmium	4.78	0.0841	"	4.20	0.200	109	75-125	14.2	20	
Copper	54.7	8.41	"	42.0	14.0	96.8	75-125	8.01	20	
Lead	13.2	0.841	"	4.20	9.93	78.4	75-125	8.80	20	QM-07
Nickel	15.0	0.841	"	4.20	11.8	76.9	75-125	1.85	20	QM-07
Selenium	4.47	0.0841	"	4.20	0.222	101	75-125	5.99	20	
Silver	4.54	0.0841	"	4.20	0.0440	107	75-125	12.7	20	
Zinc	83.6	8.41	"	42.0	45.7	90.2	75-125	5.50	20	

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2823 - EPA 3580

Blank (B3L2823-BLK1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	170		"	200		85.9	60-130			
Surrogate: Pyrene-d10	230		"	200		116	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B3L2823-BS1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200		99.9	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200		99.8	70-130
Acenaphthene	0.217	0.020	"	0.200		108	70-130
Anthracene	0.180	0.020	"	0.200		89.8	70-130

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2823 - EPA 3580

LCS (B3L2823-BS1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

Benzo (a) anthracene	0.206	0.005	mg/kg	0.200		103	70-130
Benzo (a) pyrene	0.205	0.020	"	0.200		103	70-130
Benzo (b) fluoranthene	0.216	0.020	"	0.200		108	70-130
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130
Chrysene	0.215	0.020	"	0.200		108	70-130
Dibenz (a,h) anthracene	0.214	0.020	"	0.200		107	70-130
Fluoranthene	0.193	0.020	"	0.200		96.4	70-130
Fluorene	0.239	0.020	"	0.200		119	70-130
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130
Naphthalene	0.216	0.002	"	0.200		108	70-130
Phenanthrene	0.210	0.020	"	0.200		105	70-130
Pyrene	0.238	0.020	"	0.200		119	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130
Surrogate: Anthracene-d10	170		"	200		86.2	60-130
Surrogate: Pyrene-d10	230		"	200		114	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130

Matrix Spike (B3L2823-MS1)

Source: Y312734-01

Prepared: 12/28/2023 Analyzed: 12/29/2023

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	0.001	104	70-130
2-Methylnaphthalene	0.208	0.002	"	0.200	0.001	103	70-130
Acenaphthene	0.225	0.020	"	0.200	ND	113	70-130
Anthracene	0.182	0.020	"	0.200	ND	90.9	70-130
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	108	70-130
Benzo (a) pyrene	0.207	0.020	"	0.200	0.001	103	70-130
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.0007	109	70-130
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2823 - EPA 3580

Matrix Spike (B3L2823-MS1)		Source: Y312734-01			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	0.001	102	70-130			
Chrysene	0.222	0.020	"	0.200	0.0008	111	70-130			
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	0.001	109	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.0007	98.8	70-130			
Fluorene	0.244	0.020	"	0.200	ND	122	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130			
Naphthalene	0.225	0.002	"	0.200	0.002	111	70-130			
Phenanthrene	0.215	0.020	"	0.200	ND	107	70-130			
Pyrene	0.251	0.020	"	0.200	0.001	125	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	170		"	200		87.0	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B3L2823-MSD1)		Source: Y312734-01			Prepared: 12/28/2023 Analyzed: 12/29/2023					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	0.001	105	70-130	0.474	20	
2-Methylnaphthalene	0.209	0.002	"	0.200	0.001	104	70-130	0.716	20	
Acenaphthene	0.228	0.020	"	0.200	ND	114	70-130	1.18	20	
Anthracene	0.188	0.020	"	0.200	ND	93.8	70-130	3.19	20	
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130	1.57	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	0.001	102	70-130	1.03	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.0007	107	70-130	1.91	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130	0.374	20	
Benzo (k) fluoranthene	0.197	0.020	"	0.200	0.001	98.2	70-130	3.71	20	
Chrysene	0.226	0.020	"	0.200	0.0008	113	70-130	1.83	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.001	107	70-130	1.60	20	
Fluoranthene	0.195	0.020	"	0.200	0.0007	97.0	70-130	1.84	20	

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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2823 - EPA 3580

Matrix Spike Dup (B3L2823-MSD1)		Source: Y312734-01			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Fluorene	0.241	0.020	mg/kg	0.200	ND	121	70-130	0.999	20	
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200	ND	101	70-130	3.39	20	
Naphthalene	0.225	0.002	"	0.200	0.002	111	70-130	0.0207	20	
Phenanthrene	0.217	0.020	"	0.200	ND	109	70-130	1.37	20	
Pyrene	0.248	0.020	"	0.200	0.001	123	70-130	1.18	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	170		"	200		87.5	60-130			
Surrogate: Pyrene-d10	230		"	200		113	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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 B3L2901 - DTPA Sorbitol Preparation

Blank (B3L2901-BLK1)

Prepared: 12/29/2023 Analyzed: 01/02/2024

Boron ND 0.100 mg/L

Duplicate (B3L2901-DUP1)

Source: Y312722-01

Prepared: 12/29/2023 Analyzed: 01/02/2024

Boron 0.0796 0.102 mg/L 0.0718 10.3 50

Batch B3L2905 - Saturated Paste Metals

Blank (B3L2905-BLK1)

Prepared: 12/29/2023 Analyzed: 01/02/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3L2905-DUP1)

Source: Y312734-01

Prepared: 12/29/2023 Analyzed: 01/02/2024

Calcium PPM 251 10.0 mg/L 621 84.8 50 QR-DUP

SAR ND 0.0100 SAR 0.898 200

Magnesium PPM ND 10.0 mg/L ND 50

Sodium PPM 32.5 10.0 " 81.2 85.8 50 QR-DUP

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2908 - Saturated Paste pH/EC										
Blank (B3L2908-BLK1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L2908-DUP1)					Source: Y312734-01 Prepared: 12/29/2023 Analyzed: 12/30/2023					
Specific Conductance (EC)	2.26	0.00500	mmhos/cm		6.86			101	25	QR-DUP
pH	10.5		pH Units		11.0			4.92	25	

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L726555 -										
DUP (L 85550-DUP)		Source: 85550			Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85550-MS)		Source: 85550			Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	31.7	2.5	mg/Kg	39.6	<1.22	80	75-125			
LCS (LCS)					Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	6.13	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L726554 -										
DUP (L 85527-DUP)	Source: 85527				Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85527-MS)	Source: 85527				Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	27.7	2.5	mg/Kg	39.6	<1.22	70	75-125			*
LCS (LCS)					Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	6.35	0.5	mg/Kg	8		79	75-125			
LRB (LRB)					Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30WH

Notes and Definitions

U Sample is Non-Detect.

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

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

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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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January 15, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Rademacher 32-30 WH

Project Number - 09A1417404

Attached are your analytical results for KMG - Rademacher 32-30 WH received by Origins Laboratory, Inc. January 02, 2024. This project is associated with Origins project number Y401021-01.

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

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

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

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

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

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



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417404

Project: KMG - Rademacher 32-30 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4'	Y401021-01	Soil	January 2, 2024 15:35	01/02/2024 17:56
SEP01-RISER@4'	Y401021-02	Soil	January 2, 2024 15:40	01/02/2024 17:56

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401021

Client: Ensolum

Client Project ID: Rademacher 32-30 WH

Checklist Completed by: WH/ETH

Shipped Via: Hand Delivered

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

Date/time completed: 1/2/24

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4 °C °C °C (Describe)

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) ETH

Date/Time Reviewed 1/2/24

Origins Laboratory, Inc.

J. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

FL01@4'

1/2/2024 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.438	0.101	mg/L	1	B4A0306	01/03/2024	01/04/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0234	01/02/2024	01/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0237	01/02/2024	01/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	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: 09A1417404
Project: KMG - Rademacher 32-30 WH

FL01@4'

1/2/2024 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130				B4A02 37	01/02/2024	01/02/2024	
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.87	0.499	meq/L	10	[CALC]	01/03/2024	01/04/2024	
Magnesium	9.31	0.823	"	"	"	"	"	
Sodium	4.92	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0233	01/02/2024	01/03/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

FL01@4'

1/2/2024 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A0233	01/02/2024	01/03/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.4 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.17	pH Units	1	B4A0314	01/03/2024	01/04/2024
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SAR by 20B Saturated Paste

SAR	1.85	0.0100	SAR	1	B4A0310	01/03/2024	01/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.77	0.00500	mmhos/cm	1	B4A0314	01/03/2024	01/04/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30 WH

FL01@4'

1/2/2024 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.88	0.0866	mg/kg	10	B4A0236	01/02/2024	01/05/2024
Barium	45.5	8.66	"	"	"	"	"
Cadmium	ND	0.0866	"	"	"	"	"
Copper	ND	8.66	"	"	"	"	"
Lead	5.02	0.866	"	"	"	"	"
Nickel	4.66	0.866	"	"	"	"	"
Selenium	ND	0.0866	"	"	"	"	"
Silver	ND	0.0866	"	"	"	"	"
Zinc	23.5	8.66	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726557	01/02/2024	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30 WH

SEP01-RISER@4'
1/2/2024 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.385	0.0994	mg/L	1	B4A0306	01/03/2024	01/04/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0234	01/02/2024	01/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0237	01/02/2024	01/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	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: 09A1417404
Project: KMG - Rademacher 32-30 WH

SEP01-RISER@4'
1/2/2024 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130				B4A02 37	01/02/2024	01/02/2024	
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.952	0.499	meq/L	10	[CALC]	01/03/2024	01/04/2024	
Magnesium	1.58	0.823	"	"	"	"	"	
Sodium	0.634	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0233	01/02/2024	01/03/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

SEP01-RISER@4'
1/2/2024 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A0233	01/02/2024	01/03/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.38	pH Units	1	B4A0314	01/03/2024	01/04/2024
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SAR by 20B Saturated Paste

SAR	0.564	0.0100	SAR	1	B4A0310	01/03/2024	01/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.358	0.00500	mmhos/cm	1	B4A0314	01/03/2024	01/04/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30 WH

SEP01-RISER@4'
1/2/2024 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401021-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.77	0.0905	mg/kg	10	B4A0236	01/02/2024	01/05/2024
Barium	100	9.05	"	"	"	"	"
Cadmium	ND	0.0905	"	"	"	"	"
Copper	ND	9.05	"	"	"	"	"
Lead	7.36	0.905	"	"	"	"	"
Nickel	7.36	0.905	"	"	"	"	"
Selenium	ND	0.0905	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	33.0	9.05	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726557	01/02/2024	01/08/2024
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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: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0234 - EPA 3550B										
Blank (B4A0234-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.0	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0234 - EPA 3550B

LCS (B4A0234-BS1)

Prepared: 01/02/2024 Analyzed: 01/03/2024

Diesel (C10-C28)	807	50.0	mg/kg	1000		80.7	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0234 - EPA 3550B

Matrix Spike (B4A0234-MS1)		Source: Y401016-01			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Diesel (C10-C28)	775	50.0	mg/kg	1000	ND	77.5	70-130			
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	70-130			
Surrogate: o-Terphenyl	37		"	49.8		74.0	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0234 - EPA 3550B

Matrix Spike Dup (B4A0234-MSD1)		Source: Y401016-01			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Diesel (C10-C28)	767	50.0	mg/kg	1000	ND	76.7	70-130	1.11	35	
Residual Range Organics (C28-C40)	956	200	"	1000	ND	95.6	70-130	2.62	35	
Surrogate: o-Terphenyl	29		"	49.8		58.0	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0237 - EPA 5030 (soil)										
Blank (B4A0237-BLK1)					Prepared: 01/02/2024 Analyzed: 01/02/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0237 - EPA 5030 (soil)										
LCS (B4A0237-BS1)					Prepared: 01/02/2024 Analyzed: 01/02/2024					
1,2,4-Trimethylbenzene	0.0914	0.00200	mg/kg	0.100		91.4	70-130			
1,3,5-Trimethylbenzene	0.0906	0.00200	"	0.100		90.6	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0922	0.00200	"	0.100		92.2	70-130			
Naphthalene	0.0846	0.00380	"	0.100		84.6	70-130			
Toluene	0.0983	0.00200	"	0.100		98.3	70-130			
o-Xylene	0.0861	0.00200	"	0.100		86.1	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.0	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0237 - EPA 5030 (soil)

Matrix Spike (B4A0237-MS1)		Source: Y401021-01			Prepared: 01/02/2024 Analyzed: 01/02/2024					
1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100	ND	91.9	70-130			
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Benzene	0.0821	0.00200	"	0.100	ND	82.1	70-130			
Ethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130			
Naphthalene	0.0912	0.00380	"	0.100	ND	91.2	70-130			
Toluene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
o-Xylene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.0	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0237 - EPA 5030 (soil)										
Matrix Spike Dup (B4A0237-MSD1)		Source: Y401021-01			Prepared: 01/02/2024 Analyzed: 01/02/2024					
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	1.30	20	
1,3,5-Trimethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	0.815	20	
Benzene	0.0824	0.00200	"	0.100	ND	82.4	70-130	0.413	20	
Ethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	0.529	20	
Naphthalene	0.0947	0.00380	"	0.100	ND	94.7	70-130	3.77	20	
Toluene	0.0928	0.00200	"	0.100	ND	92.8	70-130	0.475	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	0.226	20	
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.5	70-130	0.123	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0236 - EPA 3050B

Blank (B4A0236-BLK1)

Prepared: 01/02/2024 Analyzed: 01/05/2024

Arsenic	ND	0.0100	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.0100	"
Copper	ND	1.00	"
Lead	ND	0.100	"
Nickel	ND	0.100	"
Selenium	ND	0.0100	"
Silver	ND	0.0100	"
Zinc	ND	1.00	"

LCS (B4A0236-BS1)

Prepared: 01/02/2024 Analyzed: 01/05/2024

Arsenic	4.64	0.0100	mg/kg	5.00	92.8	80-120
Barium	480	1.00	"	500	96.1	80-120
Cadmium	5.00	0.0100	"	5.00	100	80-120
Copper	46.1	1.00	"	50.0	92.2	80-120
Lead	4.91	0.100	"	5.00	98.2	80-120
Nickel	4.62	0.100	"	5.00	92.4	80-120
Selenium	4.48	0.0100	"	5.00	89.5	80-120
Silver	5.15	0.0100	"	5.00	103	80-120
Zinc	45.9	1.00	"	50.0	91.9	80-120

Matrix Spike (B4A0236-MS1)

Source: Y401021-01

Prepared: 01/02/2024 Analyzed: 01/05/2024

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0236 - EPA 3050B

Matrix Spike (B4A0236-MS1)		Source: Y401021-01			Prepared: 01/02/2024 Analyzed: 01/05/2024					
Arsenic	9.45	0.0945	mg/kg	4.73	4.88	96.6	75-125			
Barium	512	9.45	"	473	45.5	98.6	75-125			
Cadmium	5.03	0.0945	"	4.73	0.0493	105	75-125			
Copper	46.2	9.45	"	47.3	2.81	91.9	75-125			
Lead	9.90	0.945	"	4.73	5.02	103	75-125			
Nickel	8.86	0.945	"	4.73	4.66	88.9	75-125			
Selenium	4.30	0.0945	"	4.73	0.0701	89.5	75-125			
Silver	5.01	0.0945	"	4.73	0.0164	106	75-125			
Zinc	68.3	9.45	"	47.3	23.5	95.0	75-125			
Matrix Spike Dup (B4A0236-MSD1)		Source: Y401021-01			Prepared: 01/02/2024 Analyzed: 01/05/2024					
Arsenic	10.2	0.0935	mg/kg	4.67	4.88	113	75-125	7.45	20	
Barium	576	9.35	"	467	45.5	114	75-125	11.9	20	
Cadmium	5.44	0.0935	"	4.67	0.0493	115	75-125	7.94	20	
Copper	50.1	9.35	"	46.7	2.81	101	75-125	8.06	20	
Lead	10.8	0.935	"	4.67	5.02	123	75-125	8.65	20	
Nickel	10.1	0.935	"	4.67	4.66	116	75-125	13.1	20	
Selenium	4.83	0.0935	"	4.67	0.0701	102	75-125	11.7	20	
Silver	5.30	0.0935	"	4.67	0.0164	113	75-125	5.53	20	
Zinc	78.2	9.35	"	46.7	23.5	117	75-125	13.5	20	

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0233 - EPA 3580

Blank (B4A0233-BLK1)

Prepared: 01/02/2024 Analyzed: 01/02/2024

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

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	190		"	200		96.2	60-130
Surrogate: Pyrene-d10	210		"	200		105	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130

LCS (B4A0233-BS1)

Prepared: 01/02/2024 Analyzed: 01/02/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200		100	70-130
Acenaphthene	0.193	0.020	"	0.200		96.3	70-130
Anthracene	0.176	0.020	"	0.200		88.2	70-130
Benzo (a) anthracene	0.201	0.005	"	0.200		100	70-130
Benzo (a) pyrene	0.203	0.020	"	0.200		101	70-130

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0233 - EPA 3580

LCS (B4A0233-BS1)

Prepared: 01/02/2024 Analyzed: 01/02/2024

Benzo (b) fluoranthene	0.198	0.020	mg/kg	0.200		99.0	70-130
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.6	70-130
Chrysene	0.204	0.020	"	0.200		102	70-130
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.3	70-130
Fluoranthene	0.201	0.020	"	0.200		101	70-130
Fluorene	0.197	0.020	"	0.200		98.5	70-130
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200		105	70-130
Naphthalene	0.203	0.002	"	0.200		101	70-130
Pyrene	0.202	0.020	"	0.200		101	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	200		"	200		98.9	60-130
Surrogate: Pyrene-d10	210		"	200		106	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130

Matrix Spike (B4A0233-MS1)

Source: Y401016-01

Prepared: 01/02/2024 Analyzed: 01/03/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	0.005	101	70-130
2-Methylnaphthalene	0.206	0.002	"	0.200	0.004	101	70-130
Acenaphthene	0.194	0.020	"	0.200	ND	97.2	70-130
Anthracene	0.177	0.020	"	0.200	0.0007	88.3	70-130
Benzo (a) anthracene	0.202	0.005	"	0.200	0.003	99.5	70-130
Benzo (a) pyrene	0.198	0.020	"	0.200	0.004	97.1	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.003	99.1	70-130
Benzo (k) fluoranthene	0.181	0.020	"	0.200	0.003	89.3	70-130
Chrysene	0.206	0.020	"	0.200	0.006	100	70-130
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	0.002	97.3	70-130
Fluoranthene	0.203	0.020	"	0.200	0.002	101	70-130
Fluorene	0.196	0.020	"	0.200	ND	98.2	70-130

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0233 - EPA 3580

Matrix Spike (B4A0233-MS1)		Source: Y401016-01			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Indeno (1,2,3-cd) pyrene	0.209	0.020	mg/kg	0.200	0.001	104	70-130			
Naphthalene	0.207	0.002	"	0.200	0.001	103	70-130			
Pyrene	0.201	0.020	"	0.200	0.002	99.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		97.2	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			
Matrix Spike Dup (B4A0233-MSD1)		Source: Y401016-01			Prepared: 01/02/2024 Analyzed: 01/03/2024					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.005	101	70-130	0.242	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	0.004	102	70-130	0.534	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.4	70-130	2.18	20	
Anthracene	0.188	0.020	"	0.200	0.0007	93.5	70-130	5.77	20	
Benzo (a) anthracene	0.208	0.005	"	0.200	0.003	103	70-130	2.92	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	0.004	99.2	70-130	2.09	20	
Benzo (b) fluoranthene	0.225	0.020	"	0.200	0.003	111	70-130	11.0	20	
Benzo (k) fluoranthene	0.193	0.020	"	0.200	0.003	95.4	70-130	6.48	20	
Chrysene	0.226	0.020	"	0.200	0.006	110	70-130	9.20	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	0.002	100	70-130	2.96	20	
Fluoranthene	0.204	0.020	"	0.200	0.002	101	70-130	0.556	20	
Fluorene	0.204	0.020	"	0.200	ND	102	70-130	3.66	20	
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	0.001	108	70-130	3.78	20	
Naphthalene	0.209	0.002	"	0.200	0.001	104	70-130	0.846	20	
Pyrene	0.206	0.020	"	0.200	0.002	102	70-130	2.38	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.5	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			

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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0233 - EPA 3580

Matrix Spike Dup (B4A0233-MSD1)		Source: Y401016-01			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200		101	60-130			

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Ensolum
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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A0306 - DTPA Sorbitol Preparation

Blank (B4A0306-BLK1)

Prepared: 01/03/2024 Analyzed: 01/04/2024

Boron ND 0.100 mg/L

Duplicate (B4A0306-DUP1)

Source: Y401016-10

Prepared: 01/03/2024 Analyzed: 01/04/2024

Boron 2.28 0.101 mg/L 2.57 12.0 50

Batch B4A0310 - Saturated Paste Metals

Blank (B4A0310-BLK1)

Prepared: 01/03/2024 Analyzed: 01/04/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4A0310-DUP1)

Source: Y312790-01

Prepared: 01/03/2024 Analyzed: 01/04/2024

SAR ND 0.0100 SAR 0.147 200

Calcium PPM 32.6 10.0 mg/L 23.0 34.7 50

Magnesium PPM 5.87 10.0 " 4.33 30.2 50

Sodium PPM 3.29 10.0 " 2.94 11.2 50

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0314 - Saturated Paste pH/EC										
Blank (B4A0314-BLK1)					Prepared: 01/03/2024 Analyzed: 01/04/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A0314-DUP1)					Source: Y312790-01 Prepared: 01/03/2024 Analyzed: 01/04/2024					
Specific Conductance (EC)	0.306	0.00500	mmhos/cm		0.298			2.82	25	
pH	8.00		pH Units		7.95			0.627	25	

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Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L726557 -										
DUP (L 85581-DUP)		Source: 85581			Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85581-MS)		Source: 85581			Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	31.8	2.5	mg/Kg	39.7	<1.22	80	75-125			
LCS (LCS)					Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	6.27	0.5	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 01/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417404

Project: KMG - Rademacher 32-30 WH

Notes and Definitions

U Sample is Non-Detect.

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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February 05, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Rademacher 32-30 WH

Project Number - 09A1417404

Attached are your analytical results for KMG - Rademacher 32-30 WH received by Origins Laboratory, Inc. January 11, 2024. This project is associated with Origins project number Y401260-01.

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: 09A1417404

Project: KMG - Rademacher 32-30 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y401260-01	Soil	January 11, 2024 12:40	01/11/2024 15:08

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417404

Project: KMG - Rademacher 32-30 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 44012400

Client: Ensolum

Client Project ID: Rademacher 32-30

Checklist Completed by: JES

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

Date/time completed: 1/11/24

Airbill #: N/A

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

Cooler Number/Temperature: 1, 15.0 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) JES Date/Time Reviewed 1/11/24

Origins Laboratory, Inc.

J. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417404

Project: KMG - Rademacher 32-30 WH

B01@6'

1/11/2024 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401260-01 (Soil)

pH in Soil by 9045D

pH	8.37		pH Units	1	B4A1224	ACN	01/12/2024	01/13/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.732	0.00500	mmhos/cm	"	"	ACN	"	"
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Table 915 metals by EPA 6020B

Barium	59.1	8.67	mg/kg	10	B4A2621	HJD	01/26/2024	01/29/2024
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

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 B4A2621 - EPA 3050B										
Blank (B4A2621-BLK1)					Prepared: 01/26/2024 Analyzed: 01/29/2024					
Barium	ND	1.00	mg/kg							
LCS (B4A2621-BS1)					Prepared: 01/26/2024 Analyzed: 01/29/2024					
Barium	492	1.00	mg/kg	500		98.4	80-120			
Matrix Spike (B4A2621-MS1)		Source: Y401210-02			Prepared: 01/26/2024 Analyzed: 01/29/2024					
Barium	493	8.47	mg/kg	424	42.8	106	75-125			
Matrix Spike Dup (B4A2621-MSD1)		Source: Y401210-02			Prepared: 01/26/2024 Analyzed: 01/29/2024					
Barium	542	8.82	mg/kg	441	42.8	113	75-125	9.54	20	

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

Jeremy Espinoza
Project Number: 09A1417404
Project: KMG - Rademacher 32-30 WH

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1224 - Saturated Paste pH/EC										
Blank (B4A1224-BLK1)					Prepared: 01/12/2024 Analyzed: 01/13/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A1224-DUP1)					Source: Y401260-01 Prepared: 01/12/2024 Analyzed: 01/13/2024					
Specific Conductance (EC)	0.718	0.00500	mmhos/cm		0.732			1.93	25	
pH	8.27		pH Units		8.37			1.20	25	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417404

Project: KMG - Rademacher 32-30 WH

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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