

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
GNB W 31-3 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	2/22/2024	3	0.0	NS	NO	40.100187	-104.822868	N
E Wall	2/22/2024	3	0.0	NS	NO	40.100164	-104.822852	N
S Wall	2/22/2024	3	0.0	NS	NO	40.10015	-104.822882	N
W Wall	2/22/2024	3	0.0	NS	NO	40.100173	-104.822917	N
WH01-RISER@3'	2/22/2024	3	0.3	NS	NO	40.100161	-104.822884	Y
	3/19/2024		0.6	NS	NO	40.100161	-104.822884	Y
B01@6'	2/22/2024	6	3.0	NS	NO	40.100171	-104.822891	Y
FS01	2/22/2024	0.5	0.0	NS	NO	40.100315	-104.822897	N
FS02	2/22/2024	0.5	0.0	NS	NO	40.10015	-104.822746	N
FS03	2/22/2024	0.5	0.0	NS	NO	40.100092	-104.822913	N
FS04	2/22/2024	0.5	0.0	NS	NO	40.100172	-104.822978	N
FLOWLINE POTHOLE SAMPLES								
FL01@4'	2/27/2024	4	0.4	NS	NO	40.098463	-104.825896	Y
FL02@4'	2/27/2024	4	0.5	NS	NO	40.098603	-104.825589	Y
PH03	2/27/2024	4	0.1	NS	NO	40.099491	-104.825238	N
PH04	2/27/2024	4	0.2	NS	NO	40.099811	-104.825209	N
PH05	2/27/2024	4	0.1	NS	NO	40.09998	-104.825027	N
PH06	2/27/2024	4	1.2	NS	NO	40.100013	-104.824105	N
PH07	2/27/2024	5	1.0	NS	NO	40.100022	-104.823404	N
SEPARATOR RISER SAMPLES								
SEP01-RISER@4'(31-3)	3/1/2024	4	2.0	NS	NO	40.09854100	-104.82606	Y
BACKGROUND SOIL SAMPLES								
NATIVE-BG01@3'	2/22/2024	3	0.0	NS	NO	40.100212	-104.822625	Y
NATIVE-BG01@6'	2/22/2024	6	0.0	NS	NO	40.100212	-104.822625	Y
NATIVE-BG02@3'	2/22/2024	3	0.0	NS	NO	40.100169	-104.822785	Y
NATIVE-BG02@6'	2/22/2024	6	0.0	NS	NO	40.100169	-104.822785	Y
NATIVE-BG03@3'	2/22/2024	3	0.0	NS	NO	40.099941	-104.822818	Y
NATIVE-BG03@6'	2/22/2024	6	0.0	NS	NO	40.099941	-104.822818	Y
NATIVE-BG04@3'	2/22/2024	3	0.0	NS	NO	40.100047	-104.822838	Y
NATIVE-BG04@6'	2/22/2024	6	0.0	NS	NO	40.100047	-104.822838	Y
NATIVE-BG05@3'	2/22/2024	3	0.0	NS	NO	40.10008	-104.822984	Y
NATIVE-BG05@6'	2/22/2024	6	0.0	NS	NO	40.10008	-104.822984	Y
NATIVE-BG06@3'	2/22/2024	3	0.0	NS	NO	40.099999	-104.823153	Y
NATIVE-BG06@6'	2/22/2024	6	0.0	NS	NO	40.099999	-104.823153	Y

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
GNB W 31-3 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

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
GNB W 31-3 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 (PGSSL)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@3'	2/22/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	3/18/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@6'	2/22/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	0.00364	<0.00200	<0.002
FLOWLINE POTHOLE SAMPLES												
FL01@4'	2/27/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL02@4'	2/27/2024	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'(31-3)	3/1/2024	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

PGSSL - 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
GNB W 31-3 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 (PGSSL)			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'	2/22/2024	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
	3/18/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@6'	2/22/2024	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
FLOWLINE POTHOLE SAMPLES																
FL01@4'	2/27/2024	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
FL02@4'	2/27/2024	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'(31-3)	3/1/2024	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
PGSSL - 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
GNB W 31-3 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits			1.54	4.06	8.39	0.51
WELLHEAD EXCAVATION SAMPLES						
WH01-RISER@3'	2/22/2024	3	0.636	2.88	8.37*	0.527
	3/18/2024		NA	NA	NA	NA
B01@6'	2/22/2024	6	0.449	2.37	8.29	0.155
FLOWLINE POTHOLE SAMPLES						
FL01@4'	2/27/2024	4	0.345	3.21	8.09	0.136
FL02@4'	2/27/2024	4	0.335	2.17	7.99	<0.0997
SEPARATOR RISER SAMPLES						
SEP01-RISER@4'(31-3)	3/1/2024	4	0.407	0.796	8.30	0.534
BACKGROUND SAMPLES						
Native-BG01@3'	2/22/2024	3	0.349	3.82	7.89	0.183
Native-BG01@6'	2/22/2024	6	0.429	3.88	7.98	0.201
Native-BG02@3'	2/22/2024	3	0.473	3.40	7.82	0.467
Native-BG02@6'	2/22/2024	6	0.166	2.58	7.80	<0.101
Native-BG03@3'	2/22/2024	3	1.54	3.40	8.00	<0.0998
Native-BG03@6'	2/22/2024	6	0.452	3.16	7.94	0.156
Native-BG04@3'	2/22/2024	3	<0.00500	3.74	7.67	0.510
Native-BG04@6'	2/22/2024	6	1.12	4.06	8.39	<1.01
Native-BG05@3'	2/22/2024	3	0.355	2.98	8.30	0.459
Native-BG05@6'	2/22/2024	6	0.311	2.72	7.85	<0.0993
Native-BG06@3'	2/22/2024	3	0.972	3.07	7.90	<0.994
Native-BG06@6'	2/22/2024	6	0.513	2.94	7.94	<0.101

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

*Exceeds Table 915-1 allowable level but within background

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

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
GNB W 31-3 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 (PGSSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits			6.09	230	0.444	NA	24.4	30.3	16	0.453	0.318	104
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@3'	2/22/2024	3	2.66*	71.4	0.306	<2.51	20.0	45.1	5.55	<0.236	0.156	73.9
	3/18/2024		NA	NA	NA	NA	NA	45.4	NA	NA	NA	NA
B01@6'	2/22/2024	6	0.725*	23.3	<0.0986	<0.5	<9.86	8.20	1.71	<0.256	<0.0986	<36.5
FLOWLINE POTHOLE SAMPLES												
FL01@4'	2/27/2024	4	2.90*	3.1	0.152	<0.5	<8.49	7.76	3.65	<0.221	<0.0849	<31.4
FL02@4'	2/27/2024	4	1.22*	13.5	<0.0842	<0.5	<8.42	2.23	1.36	<0.219	<0.0842	<31.2
SEPARATOR RISER SAMPLES												
SEP01-RISER@4'(31-3)	3/1/2024	4	3.00*	126*	0.274	<2.5	10.1	10.1	7.01	0.343*	<0.0947	44.1
BACKGROUND SAMPLES												
Native-BG01@3'	2/22/2024	3	1.62	50.1	<0.0946	<0.5	<9.46	4.69	3.42	<0.246	<0.0946	<35.0
Native-BG01@6'	2/22/2024	6	2.48	67.7	0.135	<0.5	<9.26	9.10	5.56	<0.241	<0.0926	35.6
Native-BG02@3'	2/22/2024	3	3.75	143	0.117	<0.5	13.0	11.3	9.44	<0.235	<0.0905	60.9
Native-BG02@6'	2/22/2024	6	1.68	42.1	0.112	<0.5	<9.37	6.42	4.29	<0.244	<0.0937	<34.7
Native-BG03@3'	2/22/2024	3	5.40	225	0.216	<2.5	16.4	15.9	13.4	0.396	0.0931	104
Native-BG03@6'	2/22/2024	6	4.13	67.1	0.0920	<1	<9.11	7.13	5.33	0.142	<0.0911	44.3
Native-BG04@3'	2/22/2024	3	6.09	215	0.197	<2.53	14.5	14.9	12.6	0.319	<0.0966	87.9
Native-BG04@6'	2/22/2024	6	3.09	100	0.163	<0.5	<9.52	9.86	8.12	0.453	<0.0952	61.4
Native-BG05@3'	2/22/2024	3	5.36	111	0.444	<0.5	24.4	30.3	7.72	0.232	0.318	94.6
Native-BG05@6'	2/22/2024	6	1.10	35.4	<0.0914	<0.5	<9.14	3.53	2.14	<0.0914	<0.0914	34.6
Native-BG06@3'	2/22/2024	3	5.36	230	0.367	<1	12.5	12.5	16.0	0.237	<0.0921	96.0
Native-BG06@6'	2/22/2024	6	1.26	31.5	<0.0901	<0.5	<9.01	3.44	2.08	<0.0901	<0.0901	<33.3

Notes:

ECMC - Energy and Carbon Management Commission

PGSSL - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

*Exceeds Table 915-1 allowable level but within background

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

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GNB W 31-3 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		5	560	700	1400	140	67	67	NA	250,000	250,000	
GW01	2/22/2024	<1.00	8.95	2.26	19.8	<2.00	4.61	<2.00	NA	NA	NA	6.0

Notes: ECMC - Energy and Carbon Management Commission
ft bgs - feet below ground surface
NA - not analyzed/not available
BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

µg/L - micrograms per liter
< - less than laboratory reporting limit
Excavation groundwater depth is approximate

March 13, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3 WH

Project Number - 09A1417646

Attached are your analytical results for KMG - GNB W 31-3 WH received by Origins Laboratory, Inc. February 22, 2024. This project is associated with Origins project number Y402555-01.

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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y402555-01	Soil	February 22, 2024 13:15	02/22/2024 16:33
WH01-RISER@3'	Y402555-02	Soil	February 22, 2024 13:20	02/22/2024 16:33
GW01	Y402555-03	Water	February 22, 2024 11:00	02/22/2024 16:33
NATIVE-BG01@3'	Y402555-04	Soil	February 22, 2024 13:25	02/22/2024 16:33
NATIVE-BG01@6'	Y402555-05	Soil	February 22, 2024 13:30	02/22/2024 16:33
NATIVE-BG02@3'	Y402555-06	Soil	February 22, 2024 13:35	02/22/2024 16:33
NATIVE-BG02@6'	Y402555-07	Soil	February 22, 2024 13:40	02/22/2024 16:33
NATIVE-BG03@3'	Y402555-08	Soil	February 22, 2024 13:45	02/22/2024 16:33
NATIVE-BG03@6'	Y402555-09	Soil	February 22, 2024 13:50	02/22/2024 16:33
NATIVE-BG04@3'	Y402555-10	Soil	February 22, 2024 13:55	02/22/2024 16:33
NATIVE-BG04@6'	Y402555-11	Soil	February 22, 2024 14:00	02/22/2024 16:33
NATIVE-BG05@3'	Y402555-12	Soil	February 22, 2024 14:05	02/22/2024 16:33
NATIVE-BG05@6'	Y402555-13	Soil	February 22, 2024 14:10	02/22/2024 16:33
NATIVE-BG06@3'	Y402555-14	Soil	February 22, 2024 14:15	02/22/2024 16:33

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: O9A1417646

Project: KMG - GNB W 31-3 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG06@6'	Y402555-15	Soil	February 22, 2024 14:20	02/22/2024 16:33

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: 09A1417646

Project: KMG - GNB W 31-3 WH

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4402555

Client: Ensolum

Client Project ID: GNB W 31-3 WH

Checklist Completed by: Tom Hens

Shipped Via: Hand Delivered

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

Date/time completed: 2/22/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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): <u>jar was not sealed</u>				

⁽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 2/22/24

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

B01@6'

2/22/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.155	0.0994	mg/L	1	B4B2308	02/23/2024	02/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2224	02/22/2024	02/22/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.2 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B2225	02/22/2024	02/23/2024	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	93.7 %	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: O9A1417646
Project: KMG - GNB W 31-3 WH

B01@6'

2/22/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130				B4B22 25	02/22/2024	02/23/2024	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.12	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.07	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2226	02/22/2024	02/23/2024	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: O9A1417646
Project: KMG - GNB W 31-3 WH

B01@6'

2/22/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4B2226	02/22/2024	02/23/2024	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	92.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B4B2313	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	2.37	0.0100	SAR	1	B4B2304	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.449	0.00500	mmhos/cm	1	B4B2313	02/23/2024	02/24/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

B01@6'

2/22/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.725	0.286	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Barium	23.3	9.86	"	"	"	"	"
Cadmium	ND	0.0986	"	"	"	"	"
Copper	ND	9.86	"	"	"	"	"
Lead	8.20	0.986	"	"	"	"	"
Nickel	1.71	0.986	"	"	"	"	"
Selenium	ND	0.256	"	"	"	"	"
Silver	ND	0.0986	"	"	"	"	"
Zinc	ND	36.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737633	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

WH01-RISER@3'
2/22/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.527	0.0987	mg/L	1	B4B2308	02/23/2024	02/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2224	02/22/2024	02/22/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.5 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B2225	02/22/2024	02/23/2024	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	95.1 %	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: O9A1417646
Project: KMG - GNB W 31-3 WH

WH01-RISER@3'
2/22/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130				B4B22 25	02/22/2024	02/23/2024	
Surrogate: 4-Bromofluorobenzene	100 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.42	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.83	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2226	02/22/2024	02/23/2024	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: O9A1417646
Project: KMG - GNB W 31-3 WH

WH01-RISER@3'
2/22/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4B2226	02/22/2024	02/23/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B4B2313	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	2.88	0.0100	SAR	1	B4B2304	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.636	0.00500	mmhos/cm	1	B4B2313	02/23/2024	02/24/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

WH01-RISER@3'
2/22/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.66	0.264	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Barium	71.4	9.10	"	"	"	"	"
Cadmium	0.306	0.0910	"	"	"	"	"
Copper	20.0	9.10	"	"	"	"	"
Lead	45.1	0.910	"	"	"	"	"
Nickel	5.55	0.910	"	"	"	"	"
Selenium	ND	0.236	"	"	"	"	"
Silver	0.156	0.0910	"	"	"	"	"
Zinc	73.9	33.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.51	mg/Kg	5	L737633	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

GW01

2/22/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	4.61	2.00	ug/L	1	B4B2239	02/22/2024	02/22/2024	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	2.26	1.00	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	8.95	1.00	"	"	"	"	"	
Xylenes, total	19.8	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG01@3'
2/22/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.183	0.100	mg/L	1	B4B2308	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.744	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.80	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.89	pH Units	1	B4B2313	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.82	0.0100	SAR	1	B4B2304	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.349	0.00500	mmhos/cm	1	B4B2313	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	1.62	0.274	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Barium	50.1	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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG01@3'
2/22/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-04 (Soil)

Table 915 metals by EPA 6020B

Lead	4.69		0.946	mg/kg	10	B4B2235	02/23/2024	03/02/2024	
Nickel	3.42		0.946	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0946	"	"	"	"	"	
Zinc	ND		35.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737633	02/22/2024	03/11/2024	
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG01@6'

2/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.201	0.100	mg/L	1	B4B2308	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.913	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.22	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B4B2313	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.88	0.0100	SAR	1	B4B2304	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.429	0.00500	mmhos/cm	1	B4B2313	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	2.48	0.269	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Barium	67.7	9.26	"	"	"	"	"
Cadmium	0.135	0.0926	"	"	"	"	"
Copper	ND	9.26	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG01@6'
2/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-05 (Soil)

Table 915 metals by EPA 6020B

Lead	9.10		0.926	mg/kg	10	B4B2235	02/23/2024	03/02/2024	
Nickel	5.56		0.926	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	
Silver	ND		0.0926	"	"	"	"	"	
Zinc	35.6		34.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737633	02/22/2024	03/11/2024	
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG02@3'

2/22/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.467	0.101	mg/L	1	B4B2308	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.29	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	0.823	0.823	"	"	"	"	"
Sodium	3.49	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.82		pH Units	1	B4B2313	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.40	0.0100	SAR	1	B4B2304	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.473	0.00500	mmhos/cm	1	B4B2313	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	3.75	0.262	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Barium	143	9.05	"	"	"	"	"
Cadmium	0.117	0.0905	"	"	"	"	"
Copper	13.0	9.05	"	"	"	"	"

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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG02@3'
2/22/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-06 (Soil)

Table 915 metals by EPA 6020B

Lead	11.3	0.905	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Nickel	9.44	0.905	"	"	"	"	"
Selenium	ND	0.235	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	60.9	33.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737633	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG02@6'

2/22/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.984	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.80		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	2.58	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.166	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	1.68	0.272	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Barium	42.1	9.37	"	"	"	"	"
Cadmium	0.112	0.0937	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG02@6'
2/22/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.37	mg/kg	10	B4B2235	02/23/2024	03/02/2024
Lead	6.42	0.937	"	"	"	"	"
Nickel	4.29	0.937	"	"	"	"	"
Selenium	ND	0.244	"	"	"	"	"
Silver	ND	0.0937	"	"	"	"	"
Zinc	ND	34.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737633	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG03@3'
2/22/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	6.97	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	2.98	0.823	"	"	"	"	"
Sodium	7.58	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.00		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.40	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.54	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	5.40	0.252	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	225	8.70	"	"	"	"	"
Cadmium	0.216	0.0870	"	"	"	"	"
Copper	16.4	8.70	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG03@3'
2/22/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-08 (Soil)

Table 915 metals by EPA 6020B

Lead	15.9	0.870	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Nickel	13.4	0.870	"	"	"	"	"
Selenium	0.396	0.0870	"	"	"	"	"
Silver	0.0931	0.0870	"	"	"	"	"
Zinc	104	32.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L737633	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG03@6'

2/22/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.156	0.0996	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.909	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.52	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.94		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.16	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.452	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	4.13	0.264	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	67.1	9.11	"	"	"	"	"
Cadmium	0.0920	0.0911	"	"	"	"	"
Copper	ND	9.11	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG03@6'
2/22/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-09 (Soil)

Table 915 metals by EPA 6020B

Lead	7.13	0.911	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Nickel	5.33	0.911	"	"	"	"	"
Selenium	0.142	0.0911	"	"	"	"	"
Silver	ND	0.0911	"	"	"	"	"
Zinc	44.3	33.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L737635	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG04@3'

2/22/2024 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.510	0.0995	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	4.21	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	1.56	0.823	"	"	"	"	"
Sodium	6.36	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.67		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.74	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	ND	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	6.09	0.280	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	215	9.66	"	"	"	"	"
Cadmium	0.197	0.0966	"	"	"	"	"
Copper	14.5	9.66	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG04@3'
2/22/2024 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-10 (Soil)

Table 915 metals by EPA 6020B

Lead	14.9	0.966	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Nickel	12.6	0.966	"	"	"	"	"
Selenium	0.319	0.0966	"	"	"	"	"
Silver	ND	0.0966	"	"	"	"	"
Zinc	87.9	35.8	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.23	2.53	mg/Kg	5	L737635	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG04@6'
2/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/L	10	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.40	0.499	meq/L	"	[CALC]	02/23/2024	02/26/2024
Magnesium	1.30	0.823	"	"	"	"	"
Sodium	6.23	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.39		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	4.06	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.12	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	3.09	0.276	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	100	9.52	"	"	"	"	"
Cadmium	0.163	0.0952	"	"	"	"	"
Copper	ND	9.52	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG04@6'
2/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-11 (Soil)

Table 915 metals by EPA 6020B

Lead	9.86	0.952	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Nickel	8.12	0.952	"	"	"	"	"
Selenium	0.453	0.0952	"	"	"	"	"
Silver	ND	0.0952	"	"	"	"	"
Zinc	61.4	35.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737635	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG05@3'
2/22/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.459	0.0995	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.849	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.30	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.30	pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	2.98	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.355	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	5.36	0.252	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	111	8.67	"	"	"	"	"
Cadmium	0.444	0.0867	"	"	"	"	"
Copper	24.4	8.67	"	"	"	"	"

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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG05@3'
2/22/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-12 (Soil)

Table 915 metals by EPA 6020B

Lead	30.3	0.867	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Nickel	7.72	0.867	"	"	"	"	"
Selenium	0.232	0.0867	"	"	"	"	"
Silver	0.318	0.0867	"	"	"	"	"
Zinc	94.6	32.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737635	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG05@6'

2/22/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.601	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.75	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.85		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	2.72	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.311	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	1.10	0.265	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	35.4	9.14	"	"	"	"	"
Cadmium	ND	0.0914	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG05@6'
2/22/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.14	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Lead	3.53	0.914	"	"	"	"	"
Nickel	2.14	0.914	"	"	"	"	"
Selenium	ND	0.0914	"	"	"	"	"
Silver	ND	0.0914	"	"	"	"	"
Zinc	34.6	33.8	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737635	02/22/2024	03/11/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG06@3'
2/22/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.994	mg/L	10	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.95	0.499	meq/L	"	[CALC]	02/23/2024	02/26/2024
Magnesium	1.19	0.823	"	"	"	"	"
Sodium	4.42	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.90		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	3.07	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.972	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	5.36	0.267	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	230	9.21	"	"	"	"	"
Cadmium	0.367	0.0921	"	"	"	"	"
Copper	12.5	9.21	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG06@3'
2/22/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-14 (Soil)

Table 915 metals by EPA 6020B

Lead	12.5	0.921	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Nickel	16.0	0.921	"	"	"	"	"
Selenium	0.237	0.0921	"	"	"	"	"
Silver	ND	0.0921	"	"	"	"	"
Zinc	96.0	34.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L737635	02/22/2024	03/11/2024
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG06@6'

2/22/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402555-15 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4B2309	02/23/2024	02/28/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.25	0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.74	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.94		pH Units	1	B4B2314	02/23/2024	02/24/2024
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SAR by 20B Saturated Paste

SAR	2.94	0.0100	SAR	1	B4B2305	02/23/2024	02/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.513	0.00500	mmhos/cm	1	B4B2314	02/23/2024	02/24/2024
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Table 915 metals by EPA 6020B

Arsenic	1.26	0.261	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Barium	31.5	9.01	"	"	"	"	"
Cadmium	ND	0.0901	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 WH

NATIVE-BG06@6'
2/22/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402555-15 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.01	mg/kg	10	B4B2235	02/23/2024	02/27/2024
Lead	3.44	0.901	"	"	"	"	"
Nickel	2.08	0.901	"	"	"	"	"
Selenium	ND	0.0901	"	"	"	"	"
Silver	ND	0.0901	"	"	"	"	"
Zinc	ND	33.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737635	02/22/2024	03/11/2024
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2224 - EPA 3550B										
Blank (B4B2224-BLK1)					Prepared: 02/22/2024 Analyzed: 02/22/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.0	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2224 - EPA 3550B

LCS (B4B2224-BS1)

Prepared: 02/22/2024 Analyzed: 02/22/2024

Diesel (C10-C28)	971	50.0	mg/kg	1000		97.1	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000		115	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.8	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2224 - EPA 3550B

Matrix Spike (B4B2224-MS1)		Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024					
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2224 - EPA 3550B										
Matrix Spike Dup (B4B2224-MSD1)		Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024					
Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130	1.42	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	1.70	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2225 - EPA 5030 (soil)										
Blank (B4B2225-BLK1)					Prepared: 02/22/2024 Analyzed: 02/22/2024					
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	0.12		"	0.125		95.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2225 - EPA 5030 (soil)

LCS (B4B2225-BS1)

Prepared: 02/22/2024 Analyzed: 02/22/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0996	0.00200	"	0.100		99.6	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.9	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2225 - EPA 5030 (soil)

Matrix Spike (B4B2225-MS1)		Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2225 - EPA 5030 (soil)										
Matrix Spike Dup (B4B2225-MSD1)			Source: Y402548-01		Prepared: 02/22/2024 Analyzed: 02/22/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	0.152	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	0.951	20	
Benzene	0.0925	0.00200	"	0.100	ND	92.5	70-130	0.561	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	1.15	20	
Naphthalene	0.111	0.00380	"	0.100	ND	111	70-130	0.197	20	
Toluene	0.0999	0.00200	"	0.100	ND	99.9	70-130	2.73	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	0.0904	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130	0.483	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2239 - EPA 5030B (Water)										
Blank (B4B2239-BLK1)					Prepared: 02/22/2024 Analyzed: 02/22/2024					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		118	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2239 - EPA 5030B (Water)

LCS (B4B2239-BS1)

Prepared: 02/22/2024 Analyzed: 02/22/2024

1,2,4-Trimethylbenzene	53.2	2.00	ug/L	50.0		106	70-130			
1,3,5-Trimethylbenzene	52.3	2.00	"	50.0		105	70-130			
Benzene	44.7	1.00	"	50.0		89.4	70-130			
Ethylbenzene	49.3	1.00	"	50.0		98.6	70-130			
m,p-Xylene	92.5	2.00	"	100		92.5	70-130			
Naphthalene	54.1	2.00	"	50.0		108	70-130			
o-Xylene	47.2	1.00	"	50.0		94.5	70-130			
Toluene	46.9	1.00	"	50.0		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		116	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2239 - EPA 5030B (Water)

Matrix Spike (B4B2239-MS1)		Source: Y402522-01			Prepared: 02/22/2024 Analyzed: 02/22/2024					
1,2,4-Trimethylbenzene	60.9	2.00	ug/L	50.0	21.3	79.2	70-130			
1,3,5-Trimethylbenzene	55.5	2.00	"	50.0	4.18	103	70-130			
Benzene	42.4	1.00	"	50.0	1.20	82.3	70-130			
Ethylbenzene	52.5	1.00	"	50.0	5.91	93.2	70-130			
m,p-Xylene	106	2.00	"	100	32.9	73.2	70-130			
Naphthalene	50.4	2.00	"	50.0	2.58	95.6	70-130			
o-Xylene	47.9	1.00	"	50.0	0.140	95.5	70-130			
Toluene	45.7	1.00	"	50.0	ND	91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2239 - EPA 5030B (Water)

Matrix Spike Dup (B4B2239-MSD1)		Source: Y402522-01			Prepared: 02/22/2024 Analyzed: 02/22/2024					
1,2,4-Trimethylbenzene	62.4	2.00	ug/L	50.0	21.3	82.2	70-130	2.37	20	
1,3,5-Trimethylbenzene	55.6	2.00	"	50.0	4.18	103	70-130	0.144	20	
Benzene	43.9	1.00	"	50.0	1.20	85.4	70-130	3.59	20	
Ethylbenzene	53.3	1.00	"	50.0	5.91	94.8	70-130	1.49	20	
m,p-Xylene	109	2.00	"	100	32.9	76.5	70-130	3.09	20	
Naphthalene	55.9	2.00	"	50.0	2.58	107	70-130	10.3	20	
o-Xylene	49.2	1.00	"	50.0	0.140	98.1	70-130	2.62	20	
Toluene	46.4	1.00	"	50.0	ND	92.8	70-130	1.61	20	
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2235 - EPA 3050B

Blank (B4B2235-BLK1)

Prepared: 02/23/2024 Analyzed: 02/27/2024

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

LCS (B4B2235-BS1)

Prepared: 02/23/2024 Analyzed: 03/02/2024

Arsenic	5.14	0.290	mg/kg	5.00	103	80-120
Barium	575	10.0	"	500	115	80-120
Cadmium	5.04	0.100	"	5.00	101	80-120
Copper	59.1	10.0	"	50.0	118	80-120
Lead	5.92	1.00	"	5.00	118	80-120
Nickel	5.89	1.00	"	5.00	118	80-120
Selenium	5.41	0.260	"	5.00	108	80-120
Silver	5.94	0.100	"	5.00	119	80-120
Zinc	53.6	37.0	"	50.0	107	80-120

Matrix Spike (B4B2235-MS1)

Source: Y402555-04

Prepared: 02/23/2024 Analyzed: 02/27/2024

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2235 - EPA 3050B

Matrix Spike (B4B2235-MS1)		Source: Y402555-04			Prepared: 02/23/2024 Analyzed: 02/27/2024					
Arsenic	8.65	0.279	mg/kg	4.81	1.62	146	75-125			QM-07
Barium	615	9.62	"	481	50.1	117	75-125			
Cadmium	5.86	0.0962	"	4.81	0.0662	120	75-125			
Copper	62.7	9.62	"	48.1	3.48	123	75-125			
Lead	10.4	0.962	"	4.81	4.69	118	75-125			
Nickel	9.39	0.962	"	4.81	3.42	124	75-125			
Selenium	5.94	0.0962	"	4.81	ND	124	75-125			
Silver	5.58	0.0962	"	4.81	0.0293	115	75-125			
Zinc	75.3	35.6	"	48.1	22.9	109	75-125			
Matrix Spike Dup (B4B2235-MSD1)		Source: Y402555-04			Prepared: 02/23/2024 Analyzed: 02/27/2024					
Arsenic	7.10	0.249	mg/kg	4.29	1.62	128	75-125	19.7	20	QM-07
Barium	535	8.58	"	429	50.1	113	75-125	13.9	20	
Cadmium	5.05	0.0858	"	4.29	0.0662	116	75-125	14.7	20	
Copper	52.0	8.58	"	42.9	3.48	113	75-125	18.7	20	
Lead	9.76	0.858	"	4.29	4.69	118	75-125	6.21	20	
Nickel	7.77	0.858	"	4.29	3.42	101	75-125	18.9	20	
Selenium	5.60	0.0858	"	4.29	ND	130	75-125	5.96	20	QM-07
Silver	4.81	0.0858	"	4.29	0.0293	111	75-125	14.8	20	
Zinc	69.4	31.7	"	42.9	22.9	108	75-125	8.15	20	

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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2226 - EPA 3580

Blank (B4B2226-BLK1)

Prepared: 02/22/2024 Analyzed: 02/23/2024

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 (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	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4B2226-BS1)

Prepared: 02/22/2024 Analyzed: 02/23/2024

1-Methylnaphthalene	0.175	0.002	mg/kg	0.200		87.5	70-130
2-Methylnaphthalene	0.173	0.002	"	0.200		86.6	70-130
Acenaphthene	0.176	0.020	"	0.200		88.0	70-130
Anthracene	0.168	0.020	"	0.200		83.8	70-130

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2226 - EPA 3580

LCS (B4B2226-BS1)

Prepared: 02/22/2024 Analyzed: 02/23/2024

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.8	70-130
Benzo (a) pyrene	0.182	0.020	"	0.200		90.9	70-130
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.4	70-130
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.0	70-130
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.9	70-130
Chrysene	0.181	0.020	"	0.200		90.7	70-130
Dibenz (a,h) anthracene	0.180	0.020	"	0.200		90.1	70-130
Fluoranthene	0.168	0.020	"	0.200		84.0	70-130
Fluorene	0.179	0.020	"	0.200		89.4	70-130
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		90.9	70-130
Naphthalene	0.180	0.002	"	0.200		89.9	70-130
Phenanthrene	0.164	0.020	"	0.200		82.0	70-130
Pyrene	0.163	0.020	"	0.200		81.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		93.5	60-130
Surrogate: Pyrene-d10	190		"	200		94.2	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130

Matrix Spike (B4B2226-MS1)

Source: Y402554-01

Prepared: 02/22/2024 Analyzed: 02/23/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0007	92.8	70-130
2-Methylnaphthalene	0.184	0.002	"	0.200	0.001	91.4	70-130
Acenaphthene	0.187	0.020	"	0.200	ND	93.3	70-130
Anthracene	0.178	0.020	"	0.200	0.0007	88.4	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.0004	99.2	70-130
Benzo (a) pyrene	0.190	0.020	"	0.200	ND	95.1	70-130
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.002	96.9	70-130
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.001	93.6	70-130

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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2226 - EPA 3580

Matrix Spike (B4B2226-MS1)		Source: Y402554-01			Prepared: 02/22/2024 Analyzed: 02/23/2024					
Benzo (k) fluoranthene	0.186	0.020	mg/kg	0.200	0.0009	92.4	70-130			
Chrysene	0.197	0.020	"	0.200	0.001	97.8	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130			
Fluoranthene	0.189	0.020	"	0.200	0.0005	94.1	70-130			
Fluorene	0.189	0.020	"	0.200	ND	94.6	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	0.002	95.8	70-130			
Naphthalene	0.192	0.002	"	0.200	ND	96.2	70-130			
Phenanthrene	0.172	0.020	"	0.200	ND	86.2	70-130			
Pyrene	0.168	0.020	"	0.200	0.001	83.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	180		"	200		90.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4B2226-MSD1)		Source: Y402554-01			Prepared: 02/22/2024 Analyzed: 02/23/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.0007	94.5	70-130	1.89	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	0.001	93.2	70-130	1.96	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.3	70-130	2.12	20	
Anthracene	0.185	0.020	"	0.200	0.0007	92.3	70-130	4.28	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	0.0004	100	70-130	1.05	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	0.828	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.002	96.5	70-130	0.354	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.001	98.3	70-130	4.92	20	
Benzo (k) fluoranthene	0.168	0.020	"	0.200	0.0009	83.5	70-130	10.0	20	
Chrysene	0.195	0.020	"	0.200	0.001	97.0	70-130	0.775	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.7	70-130	5.31	20	
Fluoranthene	0.184	0.020	"	0.200	0.0005	91.7	70-130	2.52	20	

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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2226 - EPA 3580

Matrix Spike Dup (B4B2226-MSD1)		Source: Y402554-01			Prepared: 02/22/2024 Analyzed: 02/23/2024					
Fluorene	0.194	0.020	mg/kg	0.200	ND	96.8	70-130	2.34	20	
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	0.002	101	70-130	5.70	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.6	70-130	1.47	20	
Phenanthrene	0.182	0.020	"	0.200	ND	90.8	70-130	5.20	20	
Pyrene	0.178	0.020	"	0.200	0.001	88.4	70-130	5.96	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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

Jeremy Espinoza
Project Number: O9A1417646
Project: KMG - GNB W 31-3 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 B4B2304 - Saturated Paste Metals

Blank (B4B2304-BLK1)

Prepared: 02/23/2024 Analyzed: 02/26/2024

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

Duplicate (B4B2304-DUP1)

Source: Y402554-01

Prepared: 02/23/2024 Analyzed: 02/26/2024

Calcium PPM	42.5	10.0	mg/L	25.9	48.6	50
SAR	ND	0.0100	SAR	1.68		200
Magnesium PPM	ND	10.0	mg/L	ND		50
Sodium PPM	37.4	10.0	"	31.1	18.4	50

Batch B4B2305 - Saturated Paste Metals

Blank (B4B2305-BLK1)

Prepared: 02/23/2024 Analyzed: 02/26/2024

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

Duplicate (B4B2305-DUP1)

Source: Y402555-07

Prepared: 02/23/2024 Analyzed: 02/26/2024

SAR	ND	0.0100	SAR	2.58		200
Calcium PPM	2.35	10.0	mg/L	4.12	54.7	50 QR-DUP
Magnesium PPM	0.720	10.0	"	1.03	35.4	50
Sodium PPM	19.1	10.0	"	22.6	16.8	50

Batch B4B2308 - DTPA Sorbitol Preparation

Blank (B4B2308-BLK1)

Prepared: 02/23/2024 Analyzed: 02/28/2024

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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
Batch B4B2308 - DTPA Sorbitol Preparation										
Blank (B4B2308-BLK1)					Prepared: 02/23/2024 Analyzed: 02/28/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B2308-DUP1)					Source: Y402554-01 Prepared: 02/23/2024 Analyzed: 02/28/2024					
Boron	0.287	0.0987	mg/L		0.193			39.4	50	
Batch B4B2309 - DTPA Sorbitol Preparation										
Blank (B4B2309-BLK1)					Prepared: 02/23/2024 Analyzed: 02/28/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B2309-DUP1)					Source: Y402555-07 Prepared: 02/23/2024 Analyzed: 02/28/2024					
Boron	0.0956	0.0992	mg/L		0.0973			1.70	50	

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2313 - Saturated Paste pH/EC

Blank (B4B2313-BLK1)

Prepared: 02/23/2024 Analyzed: 02/24/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B2313-DUP1)

Source: Y402554-01

Prepared: 02/23/2024 Analyzed: 02/24/2024

pH	10.9		pH Units	10.5		3.27	25
Specific Conductance (EC)	0.496	0.00500	mmhos/cm	0.364		30.8	25 QR-DUP

Batch B4B2314 - Saturated Paste pH/EC

Blank (B4B2314-BLK1)

Prepared: 02/23/2024 Analyzed: 02/24/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B2314-DUP1)

Source: Y402555-07

Prepared: 02/23/2024 Analyzed: 02/24/2024

Specific Conductance (EC)	0.135	0.00500	mmhos/cm	0.166		20.0	25
pH	7.70		pH Units	7.80		1.29	25

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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 L737635 -										
DUP (L 98326-DUP)	Source: Y402555-12				Prepared: Analyzed: 03/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 98326-MS)	Source: Y402555-12				Prepared: Analyzed: 03/11/2024					
Chromium, Hexavalent	34.9	2.5	mg/Kg	39.4	< 0.244	89	75-125			
LCS (LCS)					Prepared: Analyzed: 03/11/2024					
Chromium, Hexavalent	6.09	0.5	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 03/11/2024					
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: 09A1417646
Project: KMG - GNB W 31-3 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 L737633 -										
DUP (L 98318-DUP)	Source: Y402555-04				Prepared: Analyzed: 03/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 98318-MS)	Source: Y402555-04				Prepared: Analyzed: 03/11/2024					
Chromium, Hexavalent	31.9	2.5	mg/Kg	38.6	< 0.244	83	75-125			
LCS (LCS)					Prepared: Analyzed: 03/11/2024					
Chromium, Hexavalent	6.24	0.5	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 03/11/2024					
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: O9A1417646
Project: KMG - GNB W 31-3 WH

Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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March 18, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3 WH

Project Number - 09A1417646

Attached are your analytical results for KMG - GNB W 31-3 WH received by Origins Laboratory, Inc. February 27, 2024. This project is associated with Origins project number Y402675-01.

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

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

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

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

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

Origins Laboratory, Inc.
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417646

Project: KMG - GNB W 31-3 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4'	Y402675-01	Soil	February 27, 2024 11:45	02/27/2024 16:53
FL02@4'	Y402675-02	Soil	February 27, 2024 11:55	02/27/2024 16:53

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: 09A1417646

Project: KMG - GNB W 31-3 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402075

Client: Ensolum

Client Project ID: GNB W31-3WH

Checklist Completed by: JWH/AN

Shipped Via: TWD

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

Date/time completed: 2/27/24

Airbill #: N/A

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

Cooler Number/Temperature: 1,3 °C °C °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⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<u>X</u>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<u>X</u>	
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
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)			<u>X</u>	
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) JWH

2/27/24
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

FL01@4'

2/27/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.136	0.0992	mg/L	1	B4B2815	02/28/2024	02/29/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.1 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B2727	02/27/2024	02/28/2024	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	106 %	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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL01@4'

2/27/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.9 %	70-130				B4B27 27	02/27/2024	02/28/2024	
Surrogate: 4-Bromofluorobenzene	101 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.628	0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.07	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL01@4'

2/27/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.09	pH Units	1	B4B2821	02/28/2024	02/29/2024
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SAR by 20B Saturated Paste

SAR	3.21	0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.345	0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024
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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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL01@4'

2/27/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.90	0.246	mg/kg	10	B4B2730	02/27/2024	03/08/2024
Barium	30.1	8.49	"	"	"	"	"
Cadmium	0.152	0.0849	"	"	"	"	"
Copper	ND	8.49	"	"	"	"	"
Lead	7.76	0.849	"	"	"	"	"
Nickel	3.65	0.849	"	"	"	"	"
Selenium	ND	0.221	"	"	"	"	"
Silver	ND	0.0849	"	"	"	"	"
Zinc	ND	31.4	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737860	02/27/2024	03/14/2024
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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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL02@4'

2/27/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0997	mg/L	1	B4B2815	02/28/2024	03/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B2727	02/27/2024	02/28/2024	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	105 %	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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL02@4'

2/27/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.2 %	70-130				B4B27 27	02/27/2024	02/28/2024	
Surrogate: 4-Bromofluorobenzene	100 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.734	0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	1.61	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL02@4'

2/27/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4B2725	02/27/2024	02/28/2024	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	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.99	pH Units	1	B4B2821	02/28/2024	02/29/2024
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SAR by 20B Saturated Paste

SAR	2.17	0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.335	0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024
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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: 09A1417646
Project: KMG - GNB W 31-3 WH

FL02@4'

2/27/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402675-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.22	0.244	mg/kg	10	B4B2730	02/27/2024	03/08/2024
Barium	13.5	8.42	"	"	"	"	"
Cadmium	ND	0.0842	"	"	"	"	"
Copper	ND	8.42	"	"	"	"	"
Lead	2.23	0.842	"	"	"	"	"
Nickel	1.36	0.842	"	"	"	"	"
Selenium	ND	0.219	"	"	"	"	"
Silver	ND	0.0842	"	"	"	"	"
Zinc	ND	31.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737860	02/27/2024	03/14/2024
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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: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2726 - EPA 3550B										
Blank (B4B2726-BLK1)					Prepared: 02/27/2024 Analyzed: 02/27/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.6	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2726 - EPA 3550B

LCS (B4B2726-BS1)

Prepared: 02/27/2024 Analyzed: 02/27/2024

Diesel (C10-C28)	839	50.0	mg/kg	1000		83.9	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000		94.3	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.2	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2726 - EPA 3550B

Matrix Spike (B4B2726-MS1)		Source: Y402672-02			Prepared: 02/27/2024 Analyzed: 02/27/2024					
Diesel (C10-C28)	971	50.0	mg/kg	1000	249	72.3	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	197	87.0	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.2	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2726 - EPA 3550B										
Matrix Spike Dup (B4B2726-MSD1)			Source: Y402672-02		Prepared: 02/27/2024 Analyzed: 02/27/2024					
Diesel (C10-C28)	965	50.0	mg/kg	1000	249	71.6	70-130	0.666	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	197	86.1	70-130	0.862	35	
Surrogate: o-Terphenyl	49		"	49.8		98.3	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2727 - EPA 5030 (soil)										
Blank (B4B2727-BLK1)					Prepared: 02/27/2024 Analyzed: 02/27/2024					
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	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2727 - EPA 5030 (soil)

LCS (B4B2727-BS1)

Prepared: 02/27/2024 Analyzed: 02/27/2024

1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100		98.6	70-130			
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Benzene	0.0910	0.00200	"	0.100		91.0	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.0937	0.00200	"	0.100		93.7	70-130			
m,p-Xylene	0.197	0.00400	"	0.200		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2727 - EPA 5030 (soil)

Matrix Spike (B4B2727-MS1)		Source: Y402672-02			Prepared: 02/27/2024 Analyzed: 02/27/2024					
1,2,4-Trimethylbenzene	0.0857	0.00200	mg/kg	0.100	ND	85.7	70-130			
1,3,5-Trimethylbenzene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
Benzene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
Ethylbenzene	0.0939	0.00200	"	0.100	0.000860	93.0	70-130			
Naphthalene	0.0764	0.00380	"	0.100	ND	76.4	70-130			
Toluene	0.0869	0.00200	"	0.100	ND	86.9	70-130			
o-Xylene	0.0896	0.00200	"	0.100	ND	89.6	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Project: KMG - GNB W 31-3 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 B4B2727 - EPA 5030 (soil)										
Matrix Spike Dup (B4B2727-MSD1)		Source: Y402672-02			Prepared: 02/27/2024 Analyzed: 02/27/2024					
1,2,4-Trimethylbenzene	0.0831	0.00200	mg/kg	0.100	ND	83.1	70-130	3.06	20	
1,3,5-Trimethylbenzene	0.0838	0.00200	"	0.100	ND	83.8	70-130	3.38	20	
Benzene	0.0862	0.00200	"	0.100	ND	86.2	70-130	1.50	20	
Ethylbenzene	0.0879	0.00200	"	0.100	0.000860	87.1	70-130	6.58	20	
Naphthalene	0.0932	0.00380	"	0.100	ND	93.2	70-130	19.9	20	
Toluene	0.0860	0.00200	"	0.100	ND	86.0	70-130	0.995	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	5.17	20	
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.7	70-130	5.15	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2730 - EPA 3050B

Blank (B4B2730-BLK1)

Prepared: 02/27/2024 Analyzed: 03/08/2024

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

LCS (B4B2730-BS1)

Prepared: 02/27/2024 Analyzed: 03/08/2024

Arsenic	5.62	0.290	mg/kg	5.00	112	80-120
Barium	500	10.0	"	500	100	80-120
Cadmium	5.98	0.100	"	5.00	120	80-120
Copper	46.8	10.0	"	50.0	93.7	80-120
Lead	4.82	1.00	"	5.00	96.4	80-120
Nickel	5.70	1.00	"	5.00	114	80-120
Selenium	9.25	0.260	"	9.50	97.4	80-120
Silver	5.28	0.100	"	5.00	106	80-120
Zinc	50.7	37.0	"	50.0	101	80-120

Matrix Spike (B4B2730-MS1)

Source: Y402670-04

Prepared: 02/27/2024 Analyzed: 03/08/2024

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Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2730 - EPA 3050B

Matrix Spike (B4B2730-MS1)		Source: Y402670-04			Prepared: 02/27/2024 Analyzed: 03/08/2024					
Arsenic	10.8	0.247	mg/kg	4.26	5.46	125	75-125			
Barium	529	8.53	"	426	72.6	107	75-125			
Cadmium	5.24	0.0853	"	4.26	0.0983	121	75-125			
Copper	43.0	8.53	"	42.6	ND	101	75-125			
Lead	12.1	0.853	"	4.26	7.11	116	75-125			
Nickel	15.2	0.853	"	4.26	10.3	115	75-125			
Selenium	8.78	0.222	"	8.10	0.301	105	75-125			
Silver	4.40	0.0853	"	4.26	0.0127	103	75-125			
Zinc	94.2	31.6	"	42.6	39.8	128	75-125			QM-07
Matrix Spike Dup (B4B2730-MSD1)		Source: Y402670-04			Prepared: 02/27/2024 Analyzed: 03/08/2024					
Arsenic	11.4	0.280	mg/kg	4.82	5.46	123	75-125	5.34	20	
Barium	578	9.65	"	482	72.6	105	75-125	8.98	20	
Cadmium	5.91	0.0965	"	4.82	0.0983	121	75-125	12.0	20	
Copper	46.9	9.65	"	48.2	ND	97.2	75-125	8.56	20	
Lead	12.5	0.965	"	4.82	7.11	111	75-125	3.30	20	
Nickel	16.0	0.965	"	4.82	10.3	118	75-125	4.86	20	
Selenium	10.4	0.251	"	9.16	0.301	111	75-125	17.1	20	
Silver	4.99	0.0965	"	4.82	0.0127	103	75-125	12.6	20	
Zinc	99.4	35.7	"	48.2	39.8	124	75-125	5.30	20	

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2725 - EPA 3580

Blank (B4B2725-BLK1)

Prepared: 02/27/2024 Analyzed: 02/27/2024

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 (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	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4B2725-BS1)

Prepared: 02/27/2024 Analyzed: 02/27/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.4	70-130
2-Methylnaphthalene	0.184	0.002	"	0.200		92.1	70-130
Acenaphthene	0.187	0.020	"	0.200		93.4	70-130
Anthracene	0.183	0.020	"	0.200		91.7	70-130

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2725 - EPA 3580

LCS (B4B2725-BS1)

Prepared: 02/27/2024 Analyzed: 02/27/2024

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.6	70-130
Benzo (a) pyrene	0.213	0.020	"	0.200		107	70-130
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130
Benzo (g,h,i) perylene	0.199	0.020	"	0.200		99.6	70-130
Benzo (k) fluoranthene	0.193	0.020	"	0.200		96.5	70-130
Chrysene	0.192	0.020	"	0.200		95.9	70-130
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		108	70-130
Fluoranthene	0.184	0.020	"	0.200		91.8	70-130
Fluorene	0.183	0.020	"	0.200		91.4	70-130
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		97.2	70-130
Naphthalene	0.188	0.002	"	0.200		94.1	70-130
Phenanthrene	0.194	0.020	"	0.200		96.9	70-130
Pyrene	0.193	0.020	"	0.200		96.4	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130
Surrogate: Anthracene-d10	200		"	200		98.2	60-130
Surrogate: Pyrene-d10	200		"	200		97.6	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

Matrix Spike (B4B2725-MS1)

Source: Y402671-01

Prepared: 02/27/2024 Analyzed: 02/27/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.0	70-130
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	97.2	70-130
Acenaphthene	0.195	0.020	"	0.200	0.0003	97.4	70-130
Anthracene	0.205	0.020	"	0.200	ND	103	70-130
Benzo (a) anthracene	0.176	0.005	"	0.200	0.002	87.1	70-130
Benzo (a) pyrene	0.223	0.020	"	0.200	ND	112	70-130
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.5	70-130
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	0.0007	90.3	70-130

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2725 - EPA 3580

Matrix Spike (B4B2725-MS1)		Source: Y402671-01			Prepared: 02/27/2024 Analyzed: 02/27/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	ND	93.8	70-130			
Chrysene	0.197	0.020	"	0.200	ND	98.3	70-130			
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	ND	107	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.7	70-130			
Fluorene	0.195	0.020	"	0.200	0.0004	97.1	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.5	70-130			
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130			
Pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4B2725-MSD1)		Source: Y402671-01			Prepared: 02/27/2024 Analyzed: 02/27/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	ND	95.2	70-130	2.82	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	94.2	70-130	3.09	20	
Acenaphthene	0.186	0.020	"	0.200	0.0003	93.0	70-130	4.57	20	
Anthracene	0.192	0.020	"	0.200	ND	95.9	70-130	6.84	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.002	84.5	70-130	3.00	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130	9.94	20	
Benzo (b) fluoranthene	0.192	0.020	"	0.200	ND	96.1	70-130	1.67	20	
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.0007	93.5	70-130	3.48	20	
Benzo (k) fluoranthene	0.199	0.020	"	0.200	ND	99.3	70-130	5.74	20	
Chrysene	0.196	0.020	"	0.200	ND	98.1	70-130	0.147	20	
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	ND	110	70-130	3.29	20	
Fluoranthene	0.205	0.020	"	0.200	ND	102	70-130	8.78	20	

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Project: KMG - GNB W 31-3 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 B4B2725 - EPA 3580

Matrix Spike Dup (B4B2725-MSD1)		Source: Y402671-01			Prepared: 02/27/2024 Analyzed: 02/27/2024					
Fluorene	0.186	0.020	mg/kg	0.200	0.0004	92.8	70-130	4.46	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.2	70-130	2.99	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	2.88	20	
Phenanthrene	0.198	0.020	"	0.200	ND	99.1	70-130	1.85	20	
Pyrene	0.221	0.020	"	0.200	ND	110	70-130	7.74	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2809 - Saturated Paste Metals

Blank (B4B2809-BLK1)

Prepared: 02/28/2024 Analyzed: 02/29/2024

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

Duplicate (B4B2809-DUP1)

Source: Y402672-07

Prepared: 02/28/2024 Analyzed: 02/29/2024

SAR	ND	0.0100	SAR	15.9			200
Calcium PPM	85.6	10.0	mg/L	43.8		64.6	50 QR-DUP
Magnesium PPM	36.4	10.0	"	23.6		42.5	50
Sodium PPM	474	10.0	"	524		10.1	50

Batch B4B2815 - DTPA Sorbitol Preparation

Blank (B4B2815-BLK1)

Prepared: 02/28/2024 Analyzed: 02/29/2024

Boron	ND	0.100	mg/L
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Duplicate (B4B2815-DUP1)

Source: Y402575-01

Prepared: 02/28/2024 Analyzed: 02/29/2024

Boron	0.0386	0.102	mg/L	0.0313		21.1	50
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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4B2821 - Saturated Paste pH/EC										
Blank (B4B2821-BLK1)					Prepared: 02/28/2024 Analyzed: 02/29/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4B2821-DUP1)					Source: Y402672-07 Prepared: 02/28/2024 Analyzed: 02/29/2024					
Specific Conductance (EC)	2.45	0.00500	mmhos/cm		2.47			0.793	25	
pH	8.43		pH Units		8.51			0.945	25	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 L737860 -										
DUP (L 99009-DUP)	Source: Y402675-02				Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 99009-MS)	Source: Y402675-02				Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	32	2.5	mg/Kg	39.2	< 0.244	82	75-125			
LCS (LCS)					Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	6.07	0.5	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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



March 22, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3 WH

Project Number - 09A1417646

Attached are your analytical results for KMG - GNB W 31-3 WH received by Origins Laboratory, Inc. March 01, 2024. This project is associated with Origins project number Y403027-01.

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: 09A1417646

Project: KMG - GNB W 31-3 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-RISER@4'(31-3)	Y403027-01	Soil	March 1, 2024 13:15	03/01/2024 14:46

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

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

Sample Receipt Checklist

Origins Work Order: 4408027 Client: Ensolum
Client Project ID: GNB W 31-3 WH

Checklist Completed by: JEH Shipped Via: HV
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3/01/24 Airbill #: N/A

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

Cooler Number/Temperature: 1, 5 °C °C °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⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<u>X</u>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<u>X</u>	
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
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)			<u>X</u>	
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]

3/01/24
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

SEP-RISER@4'(31-3)

3/1/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403027-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.534	0.100	mg/L	1	B4C0411	03/04/2024	03/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C0121	03/01/2024	03/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C0133	"	03/01/2024	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	90.4 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

SEP-RISER@4'(31-3)

3/1/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403027-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.0 %	70-130				B4C01 33	03/01/2024	03/01/2024	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.00	0.499	meq/L	10	[CALC]	03/02/2024	03/04/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.933	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0127	03/01/2024	03/01/2024	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: 09A1417646
Project: KMG - GNB W 31-3 WH

SEP-RISER@4'(31-3)

3/1/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403027-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4C0127	03/01/2024	03/01/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.30	pH Units	1	B4C0208	03/02/2024	03/04/2024
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SAR by 20B Saturated Paste

SAR	0.796	0.0100	SAR	1	B4C0203	03/02/2024	03/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.407	0.00500	mmhos/cm	1	B4C0208	03/02/2024	03/04/2024
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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: 09A1417646
Project: KMG - GNB W 31-3 WH

SEP-RISER@4'(31-3)

3/1/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403027-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.00	0.275	mg/kg	10	B4C0126	03/01/2024	03/12/2024
Barium	126	9.47	"	"	"	"	"
Cadmium	0.274	0.0947	"	"	"	"	"
Copper	10.1	9.47	"	"	"	"	"
Lead	10.1	0.947	"	"	"	"	"
Nickel	7.01	0.947	"	"	"	"	"
Selenium	0.343	0.246	"	"	"	"	"
Silver	ND	0.0947	"	"	"	"	"
Zinc	44.1	35.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L739539	03/01/2024	03/20/2024
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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: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0121 - EPA 3550B										
Blank (B4C0121-BLK1)					Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.7	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0121 - EPA 3550B

LCS (B4C0121-BS1)

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

Diesel (C10-C28)	808	50.0	mg/kg	1000		80.8	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.1	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0121 - EPA 3550B

Matrix Spike (B4C0121-MS1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	883	50.0	mg/kg	1000	ND	88.3	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0121 - EPA 3550B										
Matrix Spike Dup (B4C0121-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130	6.12	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	7.68	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0133 - EPA 5030 (soil)										
Blank (B4C0133-BLK1)					Prepared: 03/01/2024 Analyzed: 03/01/2024					
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	0.11		"	0.125		84.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0133 - EPA 5030 (soil)										
LCS (B4C0133-BS1)					Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0133 - EPA 5030 (soil)

Matrix Spike (B4C0133-MS1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100	ND	98.1	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Ethylbenzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Naphthalene	0.0936	0.00380	"	0.100	0.000580	93.0	70-130			
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
o-Xylene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0133 - EPA 5030 (soil)										
Matrix Spike Dup (B4C0133-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	5.27	20	
1,3,5-Trimethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	4.71	20	
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	0.0418	20	
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	3.53	20	
Naphthalene	0.0919	0.00380	"	0.100	0.000580	91.3	70-130	1.81	20	
Toluene	0.0894	0.00200	"	0.100	ND	89.4	70-130	1.71	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	4.31	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130	3.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0126 - EPA 3050B

Blank (B4C0126-BLK1)

Prepared: 03/01/2024 Analyzed: 03/12/2024

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

LCS (B4C0126-BS1)

Prepared: 03/01/2024 Analyzed: 03/12/2024

Arsenic	5.42	0.290	mg/kg	5.00	108	80-120
Barium	510	10.0	"	500	102	80-120
Cadmium	5.38	0.100	"	5.00	108	80-120
Copper	54.9	10.0	"	50.0	110	80-120
Lead	4.93	1.00	"	5.00	98.6	80-120
Nickel	5.32	1.00	"	5.00	106	80-120
Selenium	10.1	0.260	"	9.50	106	80-120
Silver	5.36	0.100	"	5.00	107	80-120
Zinc	56.1	37.0	"	50.0	112	80-120

Matrix Spike (B4C0126-MS1)

Source: Y403007-01

Prepared: 03/01/2024 Analyzed: 03/12/2024

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: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0126 - EPA 3050B

Matrix Spike (B4C0126-MS1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/12/2024					
Arsenic	5.54	0.243	mg/kg	4.19	0.907	111	75-125			
Barium	432	8.38	"	419	21.6	97.9	75-125			
Cadmium	4.41	0.0838	"	4.19	0.0634	104	75-125			
Copper	48.0	8.38	"	41.9	1.99	110	75-125			
Lead	8.24	0.838	"	4.19	3.68	109	75-125			
Nickel	5.83	0.838	"	4.19	1.49	104	75-125			
Selenium	8.28	0.218	"	7.96	ND	104	75-125			
Silver	4.32	0.0838	"	4.19	ND	103	75-125			
Zinc	53.0	31.0	"	41.9	9.48	104	75-125			
Matrix Spike Dup (B4C0126-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/12/2024					
Arsenic	5.50	0.254	mg/kg	4.37	0.907	105	75-125	0.752	20	
Barium	458	8.75	"	437	21.6	99.8	75-125	5.96	20	
Cadmium	4.67	0.0875	"	4.37	0.0634	105	75-125	5.78	20	
Copper	49.3	8.75	"	43.7	1.99	108	75-125	2.77	20	
Lead	7.94	0.875	"	4.37	3.68	97.3	75-125	3.76	20	
Nickel	5.97	0.875	"	4.37	1.49	102	75-125	2.41	20	
Selenium	8.62	0.227	"	8.31	ND	104	75-125	4.03	20	
Silver	4.60	0.0875	"	4.37	ND	105	75-125	6.25	20	
Zinc	55.2	32.4	"	43.7	9.48	105	75-125	4.04	20	

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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0127 - EPA 3580

Blank (B4C0127-BLK1)

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

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 (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	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B4C0127-BS1)

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

1-Methylnaphthalene	0.172	0.002	mg/kg	0.200		85.9	70-130
2-Methylnaphthalene	0.169	0.002	"	0.200		84.7	70-130
Acenaphthene	0.169	0.020	"	0.200		84.4	70-130
Anthracene	0.159	0.020	"	0.200		79.6	70-130

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0127 - EPA 3580

LCS (B4C0127-BS1)

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

Benzo (a) anthracene	0.175	0.005	mg/kg	0.200		87.3	70-130
Benzo (a) pyrene	0.185	0.020	"	0.200		92.7	70-130
Benzo (b) fluoranthene	0.174	0.020	"	0.200		87.2	70-130
Benzo (g,h,i) perylene	0.168	0.020	"	0.200		84.2	70-130
Benzo (k) fluoranthene	0.186	0.020	"	0.200		93.1	70-130
Chrysene	0.175	0.020	"	0.200		87.5	70-130
Dibenz (a,h) anthracene	0.169	0.020	"	0.200		84.4	70-130
Fluoranthene	0.156	0.020	"	0.200		78.1	70-130
Fluorene	0.172	0.020	"	0.200		86.0	70-130
Indeno (1,2,3-cd) pyrene	0.175	0.020	"	0.200		87.4	70-130
Naphthalene	0.176	0.002	"	0.200		88.0	70-130
Phenanthrene	0.155	0.020	"	0.200		77.4	70-130
Pyrene	0.177	0.020	"	0.200		88.3	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		94.2	60-130
Surrogate: Pyrene-d10	210		"	200		107	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130

Matrix Spike (B4C0127-MS1)

Source: Y403007-01

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

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200	ND	91.6	70-130
Acenaphthene	0.183	0.020	"	0.200	ND	91.5	70-130
Anthracene	0.178	0.020	"	0.200	ND	88.9	70-130
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	101	70-130
Benzo (a) pyrene	0.194	0.020	"	0.200	ND	97.0	70-130
Benzo (b) fluoranthene	0.188	0.020	"	0.200	0.0006	93.6	70-130
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.5	70-130

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0127 - EPA 3580

Matrix Spike (B4C0127-MS1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	0.0005	88.3	70-130			
Chrysene	0.193	0.020	"	0.200	ND	96.3	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Fluoranthene	0.171	0.020	"	0.200	0.0004	85.2	70-130			
Fluorene	0.184	0.020	"	0.200	ND	92.2	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	94.2	70-130			
Phenanthrene	0.169	0.020	"	0.200	ND	84.4	70-130			
Pyrene	0.179	0.020	"	0.200	0.0008	89.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4C0127-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.2	70-130	4.16	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.5	70-130	4.19	20	
Acenaphthene	0.190	0.020	"	0.200	ND	95.2	70-130	3.94	20	
Anthracene	0.180	0.020	"	0.200	ND	90.0	70-130	1.27	20	
Benzo (a) anthracene	0.206	0.005	"	0.200	ND	103	70-130	1.49	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130	3.87	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.0006	97.2	70-130	3.80	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	ND	99.0	70-130	3.65	20	
Benzo (k) fluoranthene	0.179	0.020	"	0.200	0.0005	89.4	70-130	1.30	20	
Chrysene	0.200	0.020	"	0.200	ND	99.8	70-130	3.56	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	101	70-130	6.67	20	
Fluoranthene	0.184	0.020	"	0.200	0.0004	91.7	70-130	7.36	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0127 - EPA 3580

Matrix Spike Dup (B4C0127-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.7	70-130	3.65	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	101	70-130	0.644	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.7	70-130	3.67	20	
Phenanthrene	0.180	0.020	"	0.200	ND	90.2	70-130	6.64	20	
Pyrene	0.179	0.020	"	0.200	0.0008	89.1	70-130	0.179	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	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: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0203 - Saturated Paste Metals

Blank (B4C0203-BLK1)

Prepared: 03/02/2024 Analyzed: 03/04/2024

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

Duplicate (B4C0203-DUP1)

Source: Y402644-01

Prepared: 03/02/2024 Analyzed: 03/04/2024

SAR	ND	0.0100	SAR	3.82			200
Calcium PPM	28.6	10.0	mg/L	453		176	50 QR-DUP
Magnesium PPM	6.33	10.0	"	176		186	50 QR-DUP
Sodium PPM	26.6	10.0	"	378		174	50 QR-DUP

Batch B4C0411 - DTPA Sorbitol Preparation

Blank (B4C0411-BLK1)

Prepared: 03/04/2024 Analyzed: 03/05/2024

Boron	ND	0.100	mg/L
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Duplicate (B4C0411-DUP1)

Source: Y402640-01

Prepared: 03/04/2024 Analyzed: 03/05/2024

Boron	1.00	0.100	mg/L	0.852		16.2	50
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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: 09A1417646
Project: KMG - GNB W 31-3 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 B4C0208 - Saturated Paste pH/EC										
Blank (B4C0208-BLK1)					Prepared: 03/02/2024 Analyzed: 03/04/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C0208-DUP1)					Source: Y402644-01 Prepared: 03/02/2024 Analyzed: 03/04/2024					
pH	8.44		pH Units		8.20			2.88	25	
Specific Conductance (EC)	0.340	0.00500	mmhos/cm		3.51			165	25	QR-DUP

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 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 L739539 -										
DUP (L 85823-DUP)	Source: 85823				Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85823-MS)	Source: 85823				Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	29.3	2.5	mg/Kg	38.9	< 0.244	75	75-125			
LCS (LCS)					Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	6.34	0.5	mg/Kg	8		79	75-125			
LRB (LRB)					Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417646
Project: KMG - GNB W 31-3 WH

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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



April 01, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3 WH

Project Number - 09A1417646

Attached are your analytical results for KMG - GNB W 31-3 WH received by Origins Laboratory, Inc. March 18, 2024. This project is associated with Origins project number Y403472-01.

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: O9A1417646

Project: KMG - GNB W 31-3 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-RISER@3'	Y403472-01	Soil	March 18, 2024 16:00	03/18/2024 17:02

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: O9A1417646

Project: KMG - GNB W 31-3 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4408472

Client: Ensolum

Client Project ID: GNB W 31-3 WH

Checklist Completed by: JST/EMS

Shipped Via: HL

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

Date/time completed: 3/18/12

Airbill #: N/A

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

Cooler Number/Temperature: 116 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) JST

3/18/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: O9A1417646

Project: KMG - GNB W 31-3 WH

WH01-RISER@3'

3/18/2024 4:00:00PM

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

Y403472-01 (Soil)

Table 915 metals by EPA 6020B

Lead	45.4	0.951	mg/kg	10	B4C1823	HJD	03/18/2024	03/27/2024
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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: O9A1417646
Project: KMG - GNB W 31-3 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 B4C1823 - EPA 3050B										
Blank (B4C1823-BLK1)					Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	ND	1.00	mg/kg							
LCS (B4C1823-BS1)					Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	4.72	1.00	mg/kg	5.00		94.4	80-120			
Matrix Spike (B4C1823-MS1)		Source: Y403461-03			Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	9.81	0.913	mg/kg	4.56	5.64	91.3	75-125			
Matrix Spike Dup (B4C1823-MSD1)		Source: Y403461-03			Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	10.6	0.963	mg/kg	4.82	5.64	103	75-125	7.84	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

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: O9A1417646

Project: KMG - GNB W 31-3 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.

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