

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
DAVIS ST 20-16 & ST OF COLO AM 4 WELLHEADS
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								
WH01-RISER@3' (20-16)	11/27/2023	3	0.1	NS	NO	40.22192	-104.89168	Y
N Wall (AM 4)	11/28/2023	3	0.1	NS	NO	40.22213544	-104.8918998	N
E Wall (AM 4)	11/28/2023	3	0.1	NS	NO	40.22212255	-104.8918832	N
S Wall (AM 4)	11/28/2023	3	0.2	NS	NO	40.22211188	-104.8918904	N
W Wall (AM 4)	11/28/2023	3	0.1	NS	NO	40.22211885	-104.8919117	N
WH01-RISER@3' (AM 4)	11/28/2023	3	0.1	NS	NO	40.22213827	-104.8919084	Y
B01@6' (AM 4)	11/28/2023	6	0.4	NS	NO	40.22212078	-104.8919037	Y
	2/14/2024		0.4	NS	NO	40.22212078	-104.8919037	Y
FS01	11/28/2023	0.5	0.1	NS	NO	40.22216861	-104.8918989	N
FS02	11/28/2023	0.5	0.1	NS	NO	40.22210406	-104.891848	N
FS03	11/28/2023	0.5	0.1	NS	NO	40.22207598	-104.8919071	N
FS04	11/28/2023	0.5	0.1	NS	NO	40.22213507	-104.891963	N
FLOWLINE POTHOLE SAMPLES								
PH01@3' (Davis)	11/27/2023	3	0.1	NS	NO	40.22205839	-104.8919314	N
PH02@3' (Davis)	11/27/2023	3	0.2	NS	NO	40.22216883	-104.8921745	N
PH03@4' (Davis)/FL01@4'	11/27/2023	4	0.1	NS	NO	40.22232041	-104.8923571	Y
PH04@4' (Davis)	11/27/2023	4	0.0	NS	NO	40.22261493	-104.8923264	N
PH01@3' (#4)	11/27/2023	3	0.0	NS	NO	40.22229828	-104.8920886	N
PH02@3' (#4)	11/27/2023	3	0.0	NS	NO	40.22259719	-104.8922787	N
PH05@4'	11/27/2023	4	0.0	NS	NO	40.22289895	-104.8922735	N
PH06@3'	11/27/2023	3	0.0	NS	NO	40.22328051	-104.892185	N
PH07@3'	11/27/2023	3	0.0	NS	NO	40.22369465	-104.8920576	N
PH08@4'	11/27/2023	4	0.0	NS	NO	40.22409154	-104.8919587	N
PH09@4'	11/27/2023	4	0.0	NS	NO	40.22448104	-104.8918421	N
PH02@3' (#4)/FL02@3'	11/28/2023	3	0.0	NS	NO	40.22247821	-104.8922284	Y
PH10@3'	11/28/2023	3	0.4	NS	NO	40.22485549	-104.8917492	N
PH11@3'	11/28/2023	3	0.3	NS	NO	40.22505159	-104.8917035	N
PH12@3'	11/28/2023	3	0.2	NS	NO	40.225254	-104.8916545	N
PH13@4'	11/29/2023	4	1.5	NS	NO	40.22549678	-104.8915969	N
PH14@4'/FL03@4'	11/29/2023	4	1.2	NS	NO	40.22564139	-104.8915497	Y
BACKGROUND SOIL SAMPLES								
NATIVE-BG01@3'	11/28/2023	3	0.3	NS	NO	40.22226425	-104.8918192	Y
NATIVE-BG01@6'	11/28/2023	6	0.3	NS	NO	40.22226425	-104.8918192	Y
NATIVE-BG02@3'	11/28/2023	3	0.0	NS	NO	40.22205694	-104.8917532	Y
NATIVE-BG02@6'	11/28/2023	6	0.2	NS	NO	40.22205694	-104.8917532	Y
NATIVE-BG03@3'	11/28/2023	3	0.1	NS	NO	40.22199598	-104.8919135	Y

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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)
NATIVE-BG03@6'	11/28/2023	6	0.2	NS	NO	40.22199598	-104.8919135	Y
NATIVE-BG01@3' (Rem No. 30454)	10/18/2023	3	6.5	NS	NO	40.22235632	-104.894324	Y
NATIVE-BG01@6' (Rem No. 30454)	10/18/2023	6	3.2	NS	NO	40.22235632	-104.894324	Y
NATIVE-BG02@3' (Rem No. 30454)	10/18/2023	3	1.5	NS	NO	40.22210385	-104.8946218	Y
NATIVE-BG02@6' (Rem No. 30454)	10/18/2023	6	0.3	NS	NO	40.22210385	-104.8946218	Y
NATIVE-BG03@6' (Rem No. 30454)	1/10/2024	6	0.0	NS	NO	40.22253979	-104.8948049	Y
NATIVE-BG03@10' (Rem No. 30454)	1/10/2024	10	0.0	NS	NO	40.22253979	-104.8948049	Y
NATIVE-BG04@6' (Rem No. 30454)	1/10/2024	6	0.0	NS	NO	40.22245194	-104.8948148	Y
NATIVE-BG04@10' (Rem No. 30454)	1/10/2024	10	0.0	NS	NO	40.22245194	-104.8948148	Y
NATIVE-BG05@6' (Rem No. 30454)	1/10/2024	6	0.0	NS	NO	40.22235364	-104.8948393	Y
NATIVE-BG05@10' (Rem No. 30454)	1/10/2024	10	0.0	NS	NO	40.22235364	-104.8948393	Y
NATIVE-BG06@6' (Rem No. 30454)	1/10/2024	6	0.0	NS	NO	40.22225626	-104.8948604	Y
NATIVE-BG06@10' (Rem No. 30454)	1/10/2024	10	0.0	NS	NO	40.22225626	-104.8948604	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
DAVIS ST 20-16 & ST OF COLO AM 4 WELLHEADS
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' (20-16)	11/27/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
WH01-RISER@3' (AM 4)	11/28/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B01@6' (AM 4)	11/28/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	2/14/2024	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01@4'	11/27/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL02@3'	11/28/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL03@4'	11/29/2023	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
DAVIS ST 20-16 & ST OF COLO AM 4 WELLHEADS
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' (20-16)	11/27/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
WH01-RISER@3' (AM 4)	11/28/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B01@6' (AM 4)	11/28/2023	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
	2/14/2024	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES																
FL01@4'	11/27/2023	4	<0.020	<0.020	0.008	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL02@3'	11/28/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL03@4'	11/29/2023	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
DAVIS ST 20-16 & ST OF COLO AM 4 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH^	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (3-6')			25.3	52.8	8.60	1.20
Site-Specific Background Limits (3-10')			25.3	52.8	8.69	1.20
WELLHEAD EXCAVATION SAMPLES						
WH01-RISER@3' (20-16)	11/27/2023	3	0.842	1.54	8.22	0.228
WH01-RISER@3' (AM 4)	11/28/2023	3	0.422	0.467	8.32*	0.256
B01@6' (AM 4)	11/28/2023	6	0.574	2.07	9.30	0.282
	2/14/2024	6	NA	NA	8.46*	NA
FLOWLINE POTHOLE SAMPLES						
FL01@4'	11/27/2023	4	0.640	4.26	8.65	0.335
FL02@3'	11/28/2023	3	0.424	0.481	8.31*	<0.102
FL03@4'	11/29/2023	4	0.614	0.370	8.10	0.130
BACKGROUND SAMPLES						
NATIVE-BG01@3'	11/28/2023	3	0.222	0.0758	8.39	<0.0982
NATIVE-BG01@6'	11/28/2023	6	0.228	0.0746	8.44	<0.101
NATIVE-BG02@3'	11/28/2023	3	0.337	0.565	8.47	0.216
NATIVE-BG02@6'	11/28/2023	6	0.889	0.743	8.60	0.125
NATIVE-BG03@3'	11/28/2023	3	0.370	0.856	8.44	0.248
NATIVE-BG03@6'	11/28/2023	6	2.55	3.59	8.16	0.222
NATIVE-BG01@3' (Rem No. 30454)	10/18/2023	3	25.3	52.8	8.2	0.723
NATIVE-BG01@6' (Rem No. 30454)	10/18/2023	6	1.19	20	8.46	<0.0992
NATIVE-BG02@3' (Rem No. 30454)	10/18/2023	3	10.5	38.7	8.3	0.588
NATIVE-BG02@6' (Rem No. 30454)	10/18/2023	6	0.948	34	8.1	<0.0995
NATIVE-BG03@6' (Rem No. 30454)	1/10/2024	6	2.46	33.0	7.77	0.175
NATIVE-BG03@10' (Rem No. 30454)	1/10/2024	10	2.79	21.7	8.09	0.326
NATIVE-BG04@6' (Rem No. 30454)	1/10/2024	6	1.81	16.6	8.55	0.726
NATIVE-BG04@10' (Rem No. 30454)	1/10/2024	10	1.41	21.2	8.69	0.168
NATIVE-BG05@6' (Rem No. 30454)	1/10/2024	6	14.0	31.0	8.19	0.876
NATIVE-BG05@10' (Rem No. 30454)	1/10/2024	10	2.54	30.5	7.16	<0.101
NATIVE-BG06@6' (Rem No. 30454)	1/10/2024	6	2.36	7.3	8.25	1.2
NATIVE-BG06@10' (Rem No. 30454)	1/10/2024	10	1.63	27.4	8.28	0.303

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

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

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
DAVIS ST 20-16 & ST OF COLO AM 4 WELLHEADS
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 (3'-6')			6.17	274	0.327	NA	19.9	17.0	23.0	0.409	NA	46.3
Site-Specific Background Limits (3'-10')			6.17	274	0.327	NA	19.9	17.0	23.0	0.409	NA	46.3
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@3' (20-16)	11/27/2023	3	2.55*	75.6	0.0927	<0.5	7.09	12.4	7.46	0.166	0.0483	27.9
WH01-RISER@3' (AM 4)	11/28/2023	3	2.45*	78.5	0.349	<0.5	8.96	12.6	9.03	0.133	<0.0845	36.0
B01@6' (AM 4)	11/28/2023	6	3.54*	95.7*	0.304	<0.5	12.9	15.7*	12.6	0.130	<0.0959	46.4
	2/14/2024		NA	NA	NA	NA	NA	16.6*	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01@4'	11/27/2023	4	1.86*	46.7	0.0518	<0.5	7.10	5.31	7.86	0.0796	0.0435	22.5
FL02@3'	11/28/2023	3	1.83*	35.5	<0.0887	<0.5	<8.87	<8.87	5.33	<0.0887	<0.0887	18.3
FL03@4'	11/29/2023	4	1.19*	36.2	0.0829	<0.5	5.69	5.93	4.93	0.368*	0.0348	21.9
BACKGROUND SAMPLES												
NATIVE-BG01@3'	11/28/2023	3	1.49	29.9	<0.0917	<0.5	<9.17	<9.17	4.61	<0.0917	<0.0917	15.1
NATIVE-BG01@6'	11/28/2023	6	2.31	19.3	<0.0917	<0.5	<9.17	<9.17	3.97	<0.0917	<0.0917	14.1
NATIVE-BG02@3'	11/28/2023	3	3.18	105	0.171	<0.5	<8.70	<8.70	9.01	0.102	<0.0870	25.5
NATIVE-BG02@6'	11/28/2023	6	1.42	20.2	<0.0977	<0.5	<9.77	<9.77	4.33	<0.0977	<0.0977	12.9
NATIVE-BG03@3'	11/28/2023	3	3.31	184	0.150	<0.5	13.4	10.7	13.2	0.298	<0.0915	46.3
NATIVE-BG03@6'	11/28/2023	6	2.12	30.3	0.170	<0.5	<8.92	<8.92	9.10	0.224	<0.0892	29.5
NATIVE-BG01@3' (Rem No. 30454)	10/18/2023	3	3.87	155	0.184	NA	17.2	11.4	20.5	0.362	NA	NA
NATIVE-BG01@6' (Rem No. 30454)	10/18/2023	6	0.73	14.8	<0.0981	NA	<9.81	<9.81	<9.81	<0.0981	NA	NA
NATIVE-BG02@3' (Rem No. 30454)	10/18/2023	3	3.53	88.5	<0.0974	NA	16.4	<9.74	12.4	0.203	NA	NA
NATIVE-BG02@6' (Rem No. 30454)	10/18/2023	6	1.18	11.4	<0.0953	NA	<9.53	<9.53	<9.53	<0.0953	NA	NA
NATIVE-BG03@6' (Rem No. 30454)	1/10/2024	6	3.34	29.0	<0.0868	NA	<8.68	7.46	7.13	0.128	NA	NA
NATIVE-BG03@10' (Rem No. 30454)	1/10/2024	10	2.64	28.9	<0.0983	NA	<9.83	6.03	6.88	<0.0983	NA	NA
NATIVE-BG04@6' (Rem No. 30454)	1/10/2024	6	3.94	95.8	0.110	NA	10.4	9.27	14.0	0.198	NA	NA
NATIVE-BG04@10' (Rem No. 30454)	1/10/2024	10	2.00	25.3	<0.0887	NA	<8.87	5.06	6.11	<0.0887	NA	NA
NATIVE-BG05@6' (Rem No. 30454)	1/10/2024	6	6.17	212	0.23	NA	16.2	11.4	16.3	0.409	NA	NA
NATIVE-BG05@10' (Rem No. 30454)	1/10/2024	10	1.30	27.8	<0.0854	NA	<8.54	3.76	3.00	0.114	NA	NA
NATIVE-BG06@6' (Rem No. 30454)	1/10/2024	6	3.72	274	0.327	NA	19.9	17	23	0.129	NA	NA
NATIVE-BG06@10' (Rem No. 30454)	1/10/2024	10	2.57	49.2	<0.0931	NA	<9.31	6.36	4.63	0.173	NA	NA

Notes:
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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 analytical variability of background

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
DAVIS ST 20-16 & ST OF COLO AM 4 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Site-specific background is shown as 1.25x maximum background to account for analytical variability
If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

December 18, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Davis St 20-16 & St of CO AM 4 Ws **Project Number - 09A1417519**

Attached are your analytical results for KMG - Davis St 20-16 & St of CO AM 4 Ws received by Origins Laboratory, Inc. November 27, 2023. This project is associated with Origins project number Y311597-01.

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.

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-RISER@3' (20-16)	Y311597-01	Soil	November 27, 2023 14:05	11/27/2023 17:40
FL01@3'(20-16)	Y311597-02	Soil	November 27, 2023 14:10	11/27/2023 17:40

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4311597

Client: Ensolum

Client Project ID: Davis St 20-16 & St of CO AM 4

Checklist Completed by: EHS

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

Date/time completed: 11/27/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 0 Soil/Solid Water Other: Colo...

Cooler Number/Temperature: 1 1.50 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 7004

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

Emmanuel
Reviewed by (Project Manager)

11/27/23
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4 Ws

WH01-RISER@3' (20-16)

11/27/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311597-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.228	0.0990	mg/L	1	B3K2812	11/28/2023	11/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2720	11/27/2023	11/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K2723	11/27/2023	11/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

WH01-RISER@3' (20-16)

11/27/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311597-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.8 %	70-130	B3K27 23	11/27/2023	11/27/2023
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.29	0.499	meq/L	10	[CALC]	11/28/2023	11/29/2023
Magnesium	2.20	0.823	"	"	"	"	"
Sodium	2.55	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K2725	11/27/2023	11/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (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

Origins Laboratory, Inc.



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Jeremy Espinoza
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Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

WH01-RISER@3' (20-16)

11/27/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311597-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3K2725	11/27/2023	11/28/2023	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	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	88.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.22	pH Units	1	B3K2816	11/28/2023	11/29/2023
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SAR by 20B Saturated Paste

SAR	1.54	0.0100	SAR	1	B3K2808	11/28/2023	11/29/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.842	0.00500	mmhos/cm	1	B3K2816	11/28/2023	11/29/2023
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Ws

WH01-RISER@3' (20-16)

11/27/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311597-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.55	0.000966	mg/kg	10	B3K2818	11/28/2023	11/29/2023
Barium	75.6	0.0966	"	"	"	"	"
Cadmium	0.0927	0.000966	"	"	"	"	"
Copper	7.09	0.0966	"	"	"	"	"
Lead	12.4	0.0966	"	"	"	"	"
Nickel	7.46	0.0966	"	"	"	"	"
Selenium	0.166	0.000966	"	"	"	"	"
Silver	0.0483	0.000966	"	"	"	"	"
Zinc	27.9	0.966	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L719797	11/27/2023	11/30/2023
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Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4 Ws

FL01@3'(20-16)

11/27/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311597-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.335	0.100	mg/L	1	B3K2812	11/28/2023	11/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2720	11/27/2023	11/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K2723	11/27/2023	11/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	
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FL01@3'(20-16)

11/27/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311597-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130	B3K27 23	11/27/2023	11/27/2023
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	11/28/2023	11/29/2023
Magnesium	0.973	0.823	"	"	"	"	"
Sodium	3.47	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K2725	11/27/2023	11/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.008	0.005	"	"	"	"	"	
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

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Ws

FL01@3'(20-16)

11/27/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311597-02 (Soil)

PAH by EPA 8270E

Fluoranthene	0.023	0.020	mg/kg	1	B3K2725	11/27/2023	11/28/2023	
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	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.65	pH Units	1	B3K2816	11/28/2023	11/29/2023
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SAR by 20B Saturated Paste

SAR	4.26	0.0100	SAR	1	B3K2808	11/28/2023	11/29/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.460	0.00500	mmhos/cm	1	B3K2816	11/28/2023	11/29/2023
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Project Number: 09A1417519
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Ws

FL01@3'(20-16)

11/27/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311597-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.86	0.000925	mg/kg	10	B3K2818	11/28/2023	11/29/2023
Barium	46.7	0.0925	"	"	"	"	"
Cadmium	0.0518	0.000925	"	"	"	"	"
Copper	7.10	0.0925	"	"	"	"	"
Lead	5.31	0.0925	"	"	"	"	"
Nickel	7.86	0.0925	"	"	"	"	"
Selenium	0.0796	0.000925	"	"	"	"	"
Silver	0.0435	0.000925	"	"	"	"	"
Zinc	22.5	0.925	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L719797	11/27/2023	11/30/2023
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Ws

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 B3K2720 - EPA 3550B										
Blank (B3K2720-BLK1)					Prepared: 11/27/2023 Analyzed: 11/27/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.6	50-150			

Origins Laboratory, Inc.



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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2720 - EPA 3550B

LCS (B3K2720-BS1)

Prepared: 11/27/2023 Analyzed: 11/27/2023

Diesel (C10-C28)	786	50.0	mg/kg	1000		78.6	70-130			
Residual Range Organics (C28-C40)	995	200	"	1000		99.5	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.2	50-150			

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Ws

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 B3K2720 - EPA 3550B

Matrix Spike (B3K2720-MS1)		Source: Y311586-01			Prepared: 11/27/2023 Analyzed: 11/27/2023					
Diesel (C10-C28)	841	50.0	mg/kg	1000	ND	84.1	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.0	50-150			

Origins Laboratory, Inc.



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Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2720 - EPA 3550B

Matrix Spike Dup (B3K2720-MSD1)		Source: Y311586-01			Prepared: 11/27/2023 Analyzed: 11/27/2023					
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130	9.07	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130	8.14	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

Origins Laboratory, Inc.



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Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2723 - EPA 5030 (soil)										
Blank (B3K2723-BLK1)					Prepared: 11/27/2023 Analyzed: 11/27/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	118		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2723 - EPA 5030 (soil)

LCS (B3K2723-BS1)

Prepared: 11/27/2023 Analyzed: 11/27/2023

1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100		96.2	70-130			
1,3,5-Trimethylbenzene	0.0939	0.00200	"	0.100		93.9	70-130			
Benzene	0.0863	0.00200	"	0.100		86.3	70-130			
Ethylbenzene	0.0992	0.00200	"	0.100		99.2	70-130			
Naphthalene	0.0985	0.00380	"	0.100		98.5	70-130			
Toluene	0.0818	0.00200	"	0.100		81.8	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	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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Batch B3K2723 - EPA 5030 (soil)

Matrix Spike (B3K2723-MS1)		Source: Y311595-01			Prepared: 11/27/2023 Analyzed: 11/27/2023					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	0.00610	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	0.00388	98.0	70-130			
Benzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.106	0.00380	"	0.100	ND	106	70-130			
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.214	0.00400	"	0.200	0.00332	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2723 - EPA 5030 (soil)

Matrix Spike Dup (B3K2723-MSD1)		Source: Y311595-01			Prepared: 11/27/2023 Analyzed: 11/27/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	0.00610	96.4	70-130	4.16	20	
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100	0.00388	95.4	70-130	2.64	20	
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130	0.743	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	1.79	20	
Naphthalene	0.106	0.00380	"	0.100	ND	106	70-130	0.0946	20	
Toluene	0.0831	0.00200	"	0.100	ND	83.1	70-130	0.958	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	0.358	20	
m,p-Xylene	0.210	0.00400	"	0.200	0.00332	103	70-130	2.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B3K2818 - EPA 3050B

Blank (B3K2818-BLK1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

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

LCS (B3K2818-BS1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

Arsenic	4.77	0.000100	mg/kg	5.00		95.3	80-120
Barium	484	0.0100	"	500		96.7	80-120
Cadmium	4.54	0.000100	"	5.00		90.7	80-120
Copper	51.8	0.0100	"	50.0		104	80-120
Lead	4.61	0.0100	"	5.00		92.1	80-120
Nickel	5.01	0.0100	"	5.00		100	80-120
Selenium	4.11	0.000100	"	5.00		82.3	80-120
Silver	4.72	0.000100	"	5.00		94.3	80-120
Zinc	43.6	0.100	"	50.0		87.2	80-120

Matrix Spike (B3K2818-MS1)

Source: Y311597-01

Prepared: 11/28/2023 Analyzed: 11/29/2023

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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2818 - EPA 3050B

Matrix Spike (B3K2818-MS1)		Source: Y311597-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Arsenic	6.47	0.000930	mg/kg	4.65	2.55	84.2	75-125			
Barium	508	0.0930	"	465	75.6	92.9	75-125			
Cadmium	4.19	0.000930	"	4.65	0.0927	88.1	75-125			
Copper	52.2	0.0930	"	46.5	7.09	96.9	75-125			
Lead	13.4	0.0930	"	4.65	12.4	21.9	75-125			QM-07
Nickel	12.4	0.0930	"	4.65	7.46	106	75-125			
Selenium	3.81	0.000930	"	4.65	0.166	78.4	75-125			
Silver	4.23	0.000930	"	4.65	0.0483	89.8	75-125			
Zinc	70.3	0.930	"	46.5	27.9	91.0	75-125			
Matrix Spike Dup (B3K2818-MSD1)		Source: Y311597-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Arsenic	6.46	0.000894	mg/kg	4.47	2.55	87.4	75-125	0.163	20	
Barium	492	0.0894	"	447	75.6	93.1	75-125	3.16	20	
Cadmium	4.07	0.000894	"	4.47	0.0927	88.9	75-125	3.03	20	
Copper	50.5	0.0894	"	44.7	7.09	97.1	75-125	3.23	20	
Lead	12.7	0.0894	"	4.47	12.4	5.33	75-125	5.99	20	
Nickel	11.9	0.0894	"	4.47	7.46	99.0	75-125	4.19	20	
Selenium	3.47	0.000894	"	4.47	0.166	73.8	75-125	9.52	20	QM-07
Silver	4.13	0.000894	"	4.47	0.0483	91.3	75-125	2.28	20	
Zinc	67.2	0.894	"	44.7	27.9	87.8	75-125	4.45	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2725 - EPA 3580

Blank (B3K2725-BLK1)

Prepared: 11/27/2023 Analyzed: 11/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	180		"	200		90.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

LCS (B3K2725-BS1)

Prepared: 11/27/2023 Analyzed: 11/28/2023

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200		97.2	70-130
2-Methylnaphthalene	0.188	0.002	"	0.200		93.9	70-130
Acenaphthene	0.192	0.020	"	0.200		96.1	70-130
Anthracene	0.168	0.020	"	0.200		84.1	70-130

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2725 - EPA 3580

LCS (B3K2725-BS1)

Prepared: 11/27/2023 Analyzed: 11/28/2023

Benzo (a) anthracene	0.168	0.005	mg/kg	0.200		84.0	70-130
Benzo (a) pyrene	0.184	0.020	"	0.200		91.8	70-130
Benzo (b) fluoranthene	0.196	0.020	"	0.200		98.0	70-130
Benzo (g,h,i) perylene	0.216	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.197	0.020	"	0.200		98.7	70-130
Chrysene	0.181	0.020	"	0.200		90.6	70-130
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		95.1	70-130
Fluoranthene	0.187	0.020	"	0.200		93.3	70-130
Fluorene	0.193	0.020	"	0.200		96.4	70-130
Indeno (1,2,3-cd) pyrene	0.168	0.020	"	0.200		84.0	70-130
Naphthalene	0.195	0.002	"	0.200		97.7	70-130
Phenanthrene	0.181	0.020	"	0.200		90.5	70-130
Pyrene	0.175	0.020	"	0.200		87.4	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	180		"	200		89.3	60-130
Surrogate: Pyrene-d10	190		"	200		94.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130

Matrix Spike (B3K2725-MS1)

Source: Y311595-01

Prepared: 11/27/2023 Analyzed: 11/28/2023

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	0.0009	99.4	70-130
2-Methylnaphthalene	0.195	0.002	"	0.200	0.002	96.5	70-130
Acenaphthene	0.199	0.020	"	0.200	ND	99.4	70-130
Anthracene	0.177	0.020	"	0.200	ND	88.4	70-130
Benzo (a) anthracene	0.178	0.005	"	0.200	0.0005	88.8	70-130
Benzo (a) pyrene	0.194	0.020	"	0.200	ND	97.0	70-130
Benzo (b) fluoranthene	0.208	0.020	"	0.200	ND	104	70-130
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2725 - EPA 3580

Matrix Spike (B3K2725-MS1)		Source: Y311595-01			Prepared: 11/27/2023 Analyzed: 11/28/2023					
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	ND	97.7	70-130			
Chrysene	0.185	0.020	"	0.200	ND	92.6	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.191	0.020	"	0.200	ND	95.3	70-130			
Fluorene	0.200	0.020	"	0.200	ND	99.9	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	95.8	70-130			
Naphthalene	0.221	0.002	"	0.200	ND	111	70-130			
Phenanthrene	0.188	0.020	"	0.200	ND	94.1	70-130			
Pyrene	0.181	0.020	"	0.200	ND	90.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	180		"	200		89.7	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.2	60-130			

Matrix Spike Dup (B3K2725-MSD1)		Source: Y311595-01			Prepared: 11/27/2023 Analyzed: 11/28/2023					
1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.0009	97.1	70-130	2.29	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	0.002	93.9	70-130	2.76	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.4	70-130	4.14	20	
Anthracene	0.163	0.020	"	0.200	ND	81.7	70-130	7.92	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0005	85.1	70-130	4.25	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	ND	91.9	70-130	5.49	20	
Benzo (b) fluoranthene	0.193	0.020	"	0.200	ND	96.3	70-130	7.59	20	
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130	3.89	20	
Benzo (k) fluoranthene	0.187	0.020	"	0.200	ND	93.6	70-130	4.32	20	
Chrysene	0.178	0.020	"	0.200	ND	88.8	70-130	4.17	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130	5.68	20	
Fluoranthene	0.182	0.020	"	0.200	ND	90.9	70-130	4.72	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2725 - EPA 3580

Matrix Spike Dup (B3K2725-MSD1)		Source: Y311595-01			Prepared: 11/27/2023 Analyzed: 11/28/2023					
Fluorene	0.194	0.020	mg/kg	0.200	ND	97.0	70-130	2.92	20	
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200	ND	90.5	70-130	5.69	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.5	70-130	12.6	20	
Phenanthrene	0.176	0.020	"	0.200	ND	88.0	70-130	6.74	20	
Pyrene	0.175	0.020	"	0.200	ND	87.5	70-130	3.28	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	180		"	200		88.4	60-130			
Surrogate: Pyrene-d10	190		"	200		94.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.5	60-130			

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Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2808 - Saturated Paste Metals

Blank (B3K2808-BLK1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

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

Duplicate (B3K2808-DUP1)

Source: Y311558-14

Prepared: 11/28/2023 Analyzed: 11/29/2023

SAR	ND	0.0100	SAR		ND			200		U
Calcium PPM	537	10.0	mg/L		535			0.338	50	
Magnesium PPM	168	10.0	"		161			4.65	50	
Sodium PPM	665	10.0	"		617			7.50	50	

Batch B3K2812 - DTPA Sorbitol Preparation

Blank (B3K2812-BLK1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3K2812-DUP1)

Source: Y311595-05

Prepared: 11/28/2023 Analyzed: 11/29/2023

Boron	0.0818	0.101	mg/L		0.0921			11.8	50	U
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2816 - Saturated Paste pH/EC										
Blank (B3K2816-BLK1)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3K2816-DUP1)					Source: Y311558-14 Prepared: 11/28/2023 Analyzed: 11/29/2023					
pH	8.09		pH Units		8.05			0.496	25	
Specific Conductance (EC)	5.19	0.00500	mmhos/cm		4.90			5.76	25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 L719797 -										
DUP (L 96704-DUP)		Source: Y311597-02			Prepared: Analyzed: 11/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 96704-MS)		Source: Y311597-02			Prepared: Analyzed: 11/30/2023					
Chromium, Hexavalent	36.6	2.5	mg/Kg	39.7	<1.22	92	75-125			
LCS (LCS)					Prepared: Analyzed: 11/30/2023					
Chromium, Hexavalent	7.33	0.5	mg/Kg	8		92	75-125			
LRB (LRB)					Prepared: Analyzed: 11/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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December 19, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Davis St 20-16 & St of CO AM 4 Ws **Project Number - 09A1417519**

Attached are your analytical results for KMG - Davis St 20-16 & St of CO AM 4 Ws received by Origins Laboratory, Inc. November 28, 2023. This project is associated with Origins project number Y311625-01.

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

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

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

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

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

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



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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6' (AM4)	Y311625-01	Soil	November 28, 2023 9:27	11/28/2023 17:16
WH01-RISER@3' (AM4)	Y311625-02	Soil	November 28, 2023 9:29	11/28/2023 17:16
FL02@3' (AM4)	Y311625-03	Soil	November 28, 2023 11:43	11/28/2023 17:16
NATIVE-BG01@3'	Y311625-04	Soil	November 28, 2023 11:31	11/28/2023 17:16
NATIVE-BG01@6'	Y311625-05	Soil	November 28, 2023 11:32	11/28/2023 17:16
NATIVE-BG02@3'	Y311625-06	Soil	November 28, 2023 11:35	11/28/2023 17:16
NATIVE-BG02@6'	Y311625-07	Soil	November 28, 2023 11:36	11/28/2023 17:16
NATIVE-BG03@3'	Y311625-08	Soil	November 28, 2023 11:39	11/28/2023 17:16
NATIVE-BG03@6'	Y311625-09	Soil	November 28, 2023 11:41	11/28/2023 17:16

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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

ORIGINS
LABORATORY, INC

Initial: ph1025 www.originslaboratory.com

Client: Ensolum
Address: _____
Telephone Number: _____
Email Address: KMG@ens.com

Project Manager: J. ESPINOZA
Project Name: Davis St 20-16 & St of CO AM 4 Ws
Project Number: 09A1417519
Samples Collected By: HLK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater		
BOCE6 (AM4)	11/28/23	0927	3	X					X	
LAHOL-KISERES (AM4)		0929	3	X					X	
FLO203 (AM4)		1143	3						X	
NATIVE-B60103		1131	2						X	
NATIVE-B60106		1132							X	
NATIVE-B60203		1135							X	
NATIVE-B60206		1136							X	
NATIVE-B60303		1139							X	
NATIVE-B60306		1141							X	

Relinquished By: HLK Date: 11/28/23 Time: 1715
Received By: HLK Date: 11/28/23 Time: 1710

Temp Received: 3 Date Results Needed: _____

Turnaround Time:
☐ 48 Hr
☒ 24 Hr
☐ 72 Hr
☐ Standard

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4311625

Client: Ensolum

Client Project ID: Davis St 20-16 & St of CO

Checklist Completed by: EHS

Shipped Via: HP

Date/time completed: 11/28/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 113 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 4004

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

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

Jeremy Espinoza
Reviewed by (Project Manager)

11/28/23
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4 Ws

B01@6' (AM4)

11/28/2023 9:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.282	0.0987	mg/L	1	B3K2905	11/29/2023	11/30/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2834	11/28/2023	11/29/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.1 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K2833	11/28/2023	11/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

B01@6' (AM4)

11/28/2023 9:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130	B3K28 33	11/28/2023	11/29/2023
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.45	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.14	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K2835	11/28/2023	11/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

B01@6' (AM4)

11/28/2023 9:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3K2835	11/28/2023	11/29/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	87.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	9.30	pH Units	1	B3K2913	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	2.07	0.0100	SAR	1	B3K2909	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.574	0.00500	mmhos/cm	1	B3K2913	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

B01@6' (AM4)

11/28/2023 9:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.54	0.0959	mg/kg	10	B3K2925	11/29/2023	12/12/2023	
Barium	95.7	9.59	"	"	"	"	"	
Cadmium	0.304	0.0959	"	"	"	"	"	
Copper	12.9	9.59	"	"	"	"	"	
Lead	15.7	9.59	"	"	"	"	"	
Nickel	12.6	0.959	"	"	"	"	"	
Selenium	0.130	0.0959	"	"	"	"	"	
Silver	ND	0.0959	"	"	"	"	"	U
Zinc	46.4	9.59	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4 Ws

WH01-RISER@3' (AM4)

11/28/2023 9:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.256	0.0994	mg/L	1	B3K2905	11/29/2023	11/30/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2834	11/28/2023	11/29/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K2833	11/28/2023	11/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

WH01-RISER@3' (AM4)

11/28/2023 9:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130	B3K28 33	11/28/2023	11/29/2023
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.52	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	1.26	0.823	"	"	"	"	"
Sodium	0.550	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K2835	11/28/2023	11/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

WH01-RISER@3' (AM4)

11/28/2023 9:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3K2835	11/28/2023	11/29/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	87.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.32	pH Units	1	B3K2913	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.467	0.0100	SAR	1	B3K2909	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.422	0.00500	mmhos/cm	1	B3K2913	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

WH01-RISER@3' (AM4)

11/28/2023 9:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.45	0.0845	mg/kg	10	B3K2925	11/29/2023	12/12/2023	
Barium	78.5	8.45	"	"	"	"	"	
Cadmium	0.349	0.0845	"	"	"	"	"	
Copper	8.96	8.45	"	"	"	"	"	
Lead	12.6	8.45	"	"	"	"	"	
Nickel	9.03	0.845	"	"	"	"	"	
Selenium	0.133	0.0845	"	"	"	"	"	
Silver	ND	0.0845	"	"	"	"	"	U
Zinc	36.0	8.45	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

FL02@3' (AM4)
11/28/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B3K2905	11/29/2023	11/30/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2834	11/28/2023	11/29/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K2833	11/28/2023	11/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

FL02@3' (AM4)

11/28/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %	70-130	B3K28 33	11/28/2023	11/29/2023
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.49	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	0.565	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K2835	11/28/2023	11/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4 Ws

FL02@3' (AM4)
11/28/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3K2835	11/28/2023	11/29/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	87.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.4 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B3K2913	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.481	0.0100	SAR	1	B3K2909	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.424	0.00500	mmhos/cm	1	B3K2913	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

FL02@3' (AM4)

11/28/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.83	0.0887	mg/kg	10	B3K2925	11/29/2023	12/12/2023	
Barium	35.5	8.87	"	"	"	"	"	
Cadmium	ND	0.0887	"	"	"	"	"	U
Copper	ND	8.87	"	"	"	"	"	U
Lead	ND	8.87	"	"	"	"	"	U
Nickel	5.33	0.887	"	"	"	"	"	
Selenium	ND	0.0887	"	"	"	"	"	U
Silver	ND	0.0887	"	"	"	"	"	U
Zinc	18.3	8.87	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG01@3'
11/28/2023 11:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0982	mg/L	1	B3K2905	11/29/2023	11/30/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.899	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	1.09	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B3K2914	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.0758	0.0100	SAR	1	B3K2910	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.222	0.00500	mmhos/cm	1	B3K2914	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Arsenic	1.49	0.0917	mg/kg	10	B3K2925	11/29/2023	12/12/2023
Barium	29.9	9.17	"	"	"	"	"
Cadmium	ND	0.0917	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG01@3'

11/28/2023 11:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.17	mg/kg	10	B3K2925	11/29/2023	12/12/2023	U
Lead	ND	9.17	"	"	"	"	"	U
Nickel	4.61	0.917	"	"	"	"	"	
Selenium	ND	0.0917	"	"	"	"	"	U
Silver	ND	0.0917	"	"	"	"	"	U
Zinc	15.1	9.17	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG01@6'
11/28/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3K2905	11/29/2023	11/30/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.919	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	1.16	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.44	pH Units	1	B3K2914	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.0746	0.0100	SAR	1	B3K2910	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228	0.00500	mmhos/cm	1	B3K2914	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Arsenic	2.31	0.0917	mg/kg	10	B3K2925	11/29/2023	12/12/2023
Barium	19.3	9.17	"	"	"	"	"
Cadmium	ND	0.0917	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG01@6'

11/28/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.17	mg/kg	10	B3K2925	11/29/2023	12/12/2023	U
Lead	ND	9.17	"	"	"	"	"	U
Nickel	3.97	0.917	"	"	"	"	"	
Selenium	ND	0.0917	"	"	"	"	"	U
Silver	ND	0.0917	"	"	"	"	"	U
Zinc	14.1	9.17	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG02@3'
11/28/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.216	0.0986	mg/L	1	B3K2905	11/29/2023	11/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.803	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	1.91	0.823	"	"	"	"	"
Sodium	0.659	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.47		pH Units	1	B3K2914	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.565	0.0100	SAR	1	B3K2910	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.337	0.00500	mmhos/cm	1	B3K2914	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Arsenic	3.18	0.0870	mg/kg	10	B3K2925	11/29/2023	12/12/2023
Barium	105	8.70	"	"	"	"	"
Cadmium	0.171	0.0870	"	"	"	"	"
Copper	ND	8.70	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG02@3'

11/28/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-06 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	8.70	mg/kg	10	B3K2925	11/29/2023	12/12/2023	U
Nickel	9.01	0.870	"	"	"	"	"	
Selenium	0.102	0.0870	"	"	"	"	"	
Silver	ND	0.0870	"	"	"	"	"	U
Zinc	25.5	8.70	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG02@6'
11/28/2023 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.125	0.0993	mg/L	1	B3K2905	11/29/2023	11/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.93	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	5.48	0.823	"	"	"	"	"
Sodium	1.43	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.60		pH Units	1	B3K2914	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.743	0.0100	SAR	1	B3K2910	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.889	0.00500	mmhos/cm	1	B3K2914	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Arsenic	1.42	0.0977	mg/kg	10	B3K2925	11/29/2023	12/12/2023
Barium	20.2	9.77	"	"	"	"	"
Cadmium	ND	0.0977	"	"	"	"	" U
Copper	ND	9.77	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG02@6'

11/28/2023 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-07 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.77	mg/kg	10	B3K2925	11/29/2023	12/12/2023	U
Nickel	4.33	0.977	"	"	"	"	"	
Selenium	ND	0.0977	"	"	"	"	"	U
Silver	ND	0.0977	"	"	"	"	"	U
Zinc	12.9	9.77	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG03@3'

11/28/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.248	0.100	mg/L	1	B3K2905	11/29/2023	11/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.36	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	1.32	0.823	"	"	"	"	"
Sodium	0.991	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.44		pH Units	1	B3K2914	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	0.856	0.0100	SAR	1	B3K2910	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.370	0.00500	mmhos/cm	1	B3K2914	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Arsenic	3.31	0.0915	mg/kg	10	B3K2925	11/29/2023	12/12/2023
Barium	184	9.15	"	"	"	"	"
Cadmium	0.150	0.0915	"	"	"	"	"
Copper	13.4	9.15	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG03@3'

11/28/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-08 (Soil)

Table 915 metals by EPA 6020B

Lead	10.7	9.15	mg/kg	10	B3K2925	11/29/2023	12/12/2023	
Nickel	13.2	0.915	"	"	"	"	"	
Selenium	0.298	0.0915	"	"	"	"	"	
Silver	ND	0.0915	"	"	"	"	"	U
Zinc	46.3	9.15	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720058	11/28/2023	12/01/2023
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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG03@6'
11/28/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311625-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.222	0.0997	mg/L	1	B3K2905	11/29/2023	11/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	7.61	0.499	meq/L	10	[CALC]	11/29/2023	11/30/2023
Magnesium	13.1	0.823	"	"	"	"	"
Sodium	11.6	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.16		pH Units	1	B3K2914	11/29/2023	11/30/2023
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SAR by 20B Saturated Paste

SAR	3.59	0.0100	SAR	1	B3K2910	11/29/2023	11/30/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.55	0.00500	mmhos/cm	1	B3K2914	11/29/2023	11/30/2023
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Table 915 metals by EPA 6020B

Arsenic	2.12	0.0892	mg/kg	10	B3K2925	11/29/2023	12/12/2023
Barium	30.3	8.92	"	"	"	"	"
Cadmium	0.170	0.0892	"	"	"	"	"
Copper	ND	8.92	"	"	"	"	" U

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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

NATIVE-BG03@6'

11/28/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y311625-09 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	8.92	mg/kg	10	B3K2925	11/29/2023	12/12/2023	U
Nickel	9.10	0.892	"	"	"	"	"	
Selenium	0.224	0.0892	"	"	"	"	"	
Silver	ND	0.0892	"	"	"	"	"	U
Zinc	29.5	8.92	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720059	11/28/2023	12/01/2023
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2833 - EPA 5030 (soil)										
Blank (B3K2833-BLK1)					Prepared: 11/28/2023 Analyzed: 11/28/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Jeremy Espinoza
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Ws

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 B3K2833 - EPA 5030 (soil)

LCS (B3K2833-BS1)

Prepared: 11/28/2023 Analyzed: 11/28/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Benzene	0.0928	0.00200	"	0.100		92.8	70-130			
Ethylbenzene	0.0996	0.00200	"	0.100		99.6	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0854	0.00200	"	0.100		85.4	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2833 - EPA 5030 (soil)

Matrix Spike (B3K2833-MS1)		Source: Y311623-01			Prepared: 11/28/2023 Analyzed: 11/28/2023					
1,2,4-Trimethylbenzene	0.0994	0.00200	mg/kg	0.100	ND	99.4	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
Benzene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
Ethylbenzene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
Naphthalene	0.115	0.00380	"	0.100	ND	115	70-130			
Toluene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
o-Xylene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2833 - EPA 5030 (soil)

Matrix Spike Dup (B3K2833-MSD1)		Source: Y311623-01			Prepared: 11/28/2023 Analyzed: 11/28/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	1.18	20	
1,3,5-Trimethylbenzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	1.72	20	
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130	2.01	20	
Ethylbenzene	0.0932	0.00200	"	0.100	ND	93.2	70-130	0.408	20	
Naphthalene	0.122	0.00380	"	0.100	ND	122	70-130	5.66	20	
Toluene	0.0971	0.00200	"	0.100	ND	97.1	70-130	1.56	20	
o-Xylene	0.0947	0.00200	"	0.100	ND	94.7	70-130	0.317	20	
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.0	70-130	0.0861	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2834 - EPA 3550B

Blank (B3K2834-BLK1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.1	50-150			

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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2834 - EPA 3550B

LCS (B3K2834-BS1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

Diesel (C10-C28)	887	50.0	mg/kg	1000		88.7	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.1	50-150			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2834 - EPA 3550B

Matrix Spike (B3K2834-MS1)		Source: Y311623-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.1	50-150			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2834 - EPA 3550B

Matrix Spike Dup (B3K2834-MSD1)		Source: Y311623-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	70-130	1.53	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	2.18	35	
Surrogate: o-Terphenyl	39		"	49.8		79.1	50-150			

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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2925 - EPA 3050B

Blank (B3K2925-BLK1)

Prepared: 11/29/2023 Analyzed: 12/06/2023

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

LCS (B3K2925-BS1)

Prepared: 11/29/2023 Analyzed: 12/13/2023

Arsenic	5.04	0.0100	mg/kg	5.00		101	80-120
Barium	493	1.00	"	500		98.6	80-120
Cadmium	5.47	0.0100	"	5.00		109	80-120
Copper	52.3	1.00	"	50.0		105	80-120
Lead	5.36	1.00	"	5.00		107	80-120
Nickel	5.17	0.100	"	5.00		103	80-120
Selenium	4.83	0.0100	"	5.00		96.6	80-120
Silver	5.47	0.0100	"	5.00		109	80-120
Zinc	49.7	1.00	"	50.0		99.5	80-120

Matrix Spike (B3K2925-MS1)

Source: Y311623-04

Prepared: 11/29/2023 Analyzed: 12/13/2023

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2925 - EPA 3050B

Matrix Spike (B3K2925-MS1)		Source: Y311623-04			Prepared: 11/29/2023 Analyzed: 12/13/2023					
Arsenic	8.06	0.0861	mg/kg	4.30	5.52	58.9	75-125			QM-07
Barium	576	8.61	"	430	110	108	75-125			
Cadmium	4.65	0.0861	"	4.30	0.468	97.2	75-125			
Copper	58.9	8.61	"	43.0	20.2	90.0	75-125			
Lead	16.8	8.61	"	4.30	16.7	1.40	75-125			QM-07
Nickel	16.6	0.861	"	4.30	34.2	NR	75-125			QM-07
Selenium	4.01	0.0861	"	4.30	0.237	87.7	75-125			
Silver	4.39	0.0861	"	4.30	0.0257	101	75-125			
Zinc	90.6	8.61	"	43.0	93.2	NR	75-125			QM-07
Matrix Spike Dup (B3K2925-MSD1)		Source: Y311623-04			Prepared: 11/29/2023 Analyzed: 12/13/2023					
Arsenic	7.39	0.0854	mg/kg	4.27	5.52	43.8	75-125	8.61	20	QM-07
Barium	550	8.54	"	427	110	103	75-125	4.62	20	
Cadmium	4.99	0.0854	"	4.27	0.468	106	75-125	6.99	20	
Copper	60.7	8.54	"	42.7	20.2	94.7	75-125	2.87	20	
Lead	16.5	8.54	"	4.27	16.7	NR	75-125	1.68	20	QM-07
Nickel	19.8	0.854	"	4.27	34.2	NR	75-125	17.7	20	QM-07
Selenium	4.13	0.0854	"	4.27	0.237	91.2	75-125	2.94	20	
Silver	4.71	0.0854	"	4.27	0.0257	110	75-125	7.09	20	
Zinc	92.8	8.54	"	42.7	93.2	NR	75-125	2.34	20	QM-07

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2835 - EPA 3580

Blank (B3K2835-BLK1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		89.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

LCS (B3K2835-BS1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.6	70-130
2-Methylnaphthalene	0.195	0.002	"	0.200		97.6	70-130
Acenaphthene	0.200	0.020	"	0.200		100	70-130
Anthracene	0.168	0.020	"	0.200		84.0	70-130

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2835 - EPA 3580

LCS (B3K2835-BS1)

Prepared: 11/28/2023 Analyzed: 11/29/2023

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.3	70-130
Benzo (a) pyrene	0.196	0.020	"	0.200		98.1	70-130
Benzo (b) fluoranthene	0.202	0.020	"	0.200		101	70-130
Benzo (g,h,i) perylene	0.203	0.020	"	0.200		102	70-130
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.5	70-130
Chrysene	0.193	0.020	"	0.200		96.3	70-130
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.5	70-130
Fluoranthene	0.196	0.020	"	0.200		98.1	70-130
Fluorene	0.207	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		95.2	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.186	0.020	"	0.200		93.1	70-130
Pyrene	0.182	0.020	"	0.200		90.9	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130
Surrogate: Anthracene-d10	180		"	200		87.9	60-130
Surrogate: Pyrene-d10	190		"	200		93.0	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130

Matrix Spike (B3K2835-MS1)

Source: Y311621-01

Prepared: 11/28/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	ND	100	70-130
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.1	70-130
Acenaphthene	0.197	0.020	"	0.200	ND	98.7	70-130
Anthracene	0.166	0.020	"	0.200	0.001	82.4	70-130
Benzo (a) anthracene	0.172	0.005	"	0.200	0.0006	85.7	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	ND	108	70-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2835 - EPA 3580

Matrix Spike (B3K2835-MS1)		Source: Y311621-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	ND	92.3	70-130			
Chrysene	0.190	0.020	"	0.200	ND	94.9	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	99.2	70-130			
Fluoranthene	0.193	0.020	"	0.200	ND	96.4	70-130			
Fluorene	0.203	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.200	ND	88.6	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.182	0.020	"	0.200	ND	90.9	70-130			
Pyrene	0.179	0.020	"	0.200	0.001	88.8	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		86.6	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3K2835-MSD1)		Source: Y311621-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130	0.229	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.1	70-130	1.06	20	
Acenaphthene	0.198	0.020	"	0.200	ND	99.2	70-130	0.489	20	
Anthracene	0.169	0.020	"	0.200	0.001	83.8	70-130	1.73	20	
Benzo (a) anthracene	0.173	0.005	"	0.200	0.0006	86.0	70-130	0.397	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.3	70-130	2.62	20	
Benzo (b) fluoranthene	0.203	0.020	"	0.200	ND	101	70-130	1.84	20	
Benzo (g,h,i) perylene	0.210	0.020	"	0.200	ND	105	70-130	2.48	20	
Benzo (k) fluoranthene	0.183	0.020	"	0.200	ND	91.7	70-130	0.654	20	
Chrysene	0.178	0.020	"	0.200	ND	89.2	70-130	6.26	20	
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.2	70-130	2.04	20	
Fluoranthene	0.192	0.020	"	0.200	ND	95.9	70-130	0.495	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2835 - EPA 3580

Matrix Spike Dup (B3K2835-MSD1)		Source: Y311621-01			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	0.211	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.5	70-130	4.39	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	1.66	20	
Phenanthrene	0.184	0.020	"	0.200	ND	92.1	70-130	1.41	20	
Pyrene	0.177	0.020	"	0.200	0.001	87.6	70-130	1.33	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		87.5	60-130			
Surrogate: Pyrene-d10	180		"	200		92.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2905 - DTPA Sorbitol Preparation

Blank (B3K2905-BLK1)

Prepared: 11/29/2023 Analyzed: 11/30/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3K2905-DUP1)

Source: Y311517-01

Prepared: 11/29/2023 Analyzed: 11/30/2023

Boron	0.112	0.0995	mg/L		0.0994			12.2	50	
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Batch B3K2909 - Saturated Paste Metals

Blank (B3K2909-BLK1)

Prepared: 11/29/2023 Analyzed: 11/30/2023

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

Duplicate (B3K2909-DUP1)

Source: Y311621-01

Prepared: 11/29/2023 Analyzed: 11/30/2023

Calcium PPM	35.2	10.0	mg/L		27.2			25.8	50	
SAR	ND	0.0100	SAR		2.52				200	U
Magnesium PPM	14.5	10.0	mg/L		11.9			19.7	50	
Sodium PPM	79.8	10.0	"		62.6			24.1	50	

Batch B3K2910 - Saturated Paste Metals

Blank (B3K2910-BLK1)

Prepared: 11/29/2023 Analyzed: 11/30/2023

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2910 - Saturated Paste Metals

Duplicate (B3K2910-DUP1)		Source: Y311581-01			Prepared: 11/29/2023 Analyzed: 11/30/2023					
Calcium PPM	38.2	10.0	mg/L		30.3			23.0	50	
SAR	ND	0.0100	SAR		1.42				200	U
Magnesium PPM	32.2	10.0	mg/L		25.7			22.7	50	
Sodium PPM	50.0	10.0	"		43.9			12.9	50	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2913 - Saturated Paste pH/EC

Blank (B3K2913-BLK1)

Prepared: 11/29/2023 Analyzed: 11/30/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3K2913-DUP1)

Source: Y311621-01

Prepared: 11/29/2023 Analyzed: 11/30/2023

pH	8.38		pH Units	8.33			0.598	25		
Specific Conductance (EC)	0.710	0.00500	mmhos/cm	0.567			22.4	25		

Batch B3K2914 - Saturated Paste pH/EC

Blank (B3K2914-BLK1)

Prepared: 11/29/2023 Analyzed: 11/30/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3K2914-DUP1)

Source: Y311581-01

Prepared: 11/29/2023 Analyzed: 11/30/2023

pH	8.27		pH Units	8.27			0.00	25		
Specific Conductance (EC)	0.714	0.00500	mmhos/cm	0.589			19.2	25		

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

**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 L720059 -										
DUP (L 97406-DUP)	Source: Y311625-09				Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 97406-MS)	Source: Y311625-09				Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	34.5	2.5	mg/Kg	40	<1.22	86	75-125			
LCS (LCS)					Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	6.67	0.5	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 L720058 -										
DUP (L 97401-DUP)	Source: Y311625-04				Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 97401-MS)	Source: Y311625-04				Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	32.1	2.5	mg/Kg	38.5	<1.22	83	75-125			
LCS (LCS)					Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	6.51	0.5	mg/Kg	8		81	75-125			
LRB (LRB)					Prepared: Analyzed: 12/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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December 19, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Davis St 20-16 & St of CO AM 4 Ws **Project Number - 09A1417519**

Attached are your analytical results for KMG - Davis St 20-16 & St of CO AM 4 Ws received by Origins Laboratory, Inc. November 29, 2023. This project is associated with Origins project number Y311660-01.

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

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

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

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

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

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



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL03@3'	Y311660-01	Soil	November 29, 2023 14:30	11/29/2023 16:05

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4311660

Client: Ensolum

Client Project ID: Davis St 20-16 B St of

Checklist Completed by: ETHS

Shipped Via: HD COLO

Date/time completed: 11/29/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 141 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: TOO4

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

Emily Espinoza
Reviewed by (Project Manager)

11/29/23
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4 Ws

FL03@3'

11/29/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311660-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.130	0.100	mg/L	1	B3K3012	11/30/2023	12/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2901	11/29/2023	11/30/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K2924	11/29/2023	11/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

FL03@3'

11/29/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311660-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.7 %	70-130	B3K29 24	11/29/2023	11/29/2023
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.15	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	1.01	0.823	"	"	"	"	"
Sodium	0.534	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K2923	11/29/2023	11/30/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

FL03@3'

11/29/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311660-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3K2923	11/29/2023	11/30/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	87.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.3 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.10	pH Units	1	B3K3015	11/30/2023	12/01/2023
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SAR by 20B Saturated Paste

SAR	0.370	0.0100	SAR	1	B3K3009	11/30/2023	12/03/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.614	0.00500	mmhos/cm	1	B3K3015	11/30/2023	12/01/2023
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Total Metals by 6020B

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FL03@3'

11/29/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y311660-01 (Soil)

Total Metals by 6020B

Arsenic	1.19	0.0855	0.25	mg/Kg	5	L720100	12/01/2023	12/14/2023	
Barium	36.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.0829	0.026	0.25	"	"	"	"	"	J
Copper	5.69	0.0805	0.25	"	"	"	"	"	
Lead	5.93	0.031	0.25	"	"	"	"	"	
Nickel	4.93	0.0635	0.25	"	"	"	"	"	
Selenium	0.368	0.103	0.25	"	"	"	"	"	
Silver	0.0348	0.0067	0.25	"	"	"	"	"	J
Zinc	21.9	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720909	11/29/2023	12/07/2023	
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Ws

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 B3K2901 - EPA 3550B										
Blank (B3K2901-BLK1)					Prepared: 11/29/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.2	50-150			

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Ws

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 B3K2901 - EPA 3550B

LCS (B3K2901-BS1)

Prepared: 11/29/2023 Analyzed: 11/29/2023

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.0	50-150			

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Ws

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 B3K2901 - EPA 3550B

Matrix Spike (B3K2901-MS1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	526	63.6	70-130			QM-07
Residual Range Organics (C28-C40)	992	200	"	1000	115	87.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	50-150			

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Ws

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 B3K2901 - EPA 3550B

Matrix Spike Dup (B3K2901-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	1280	50.0	mg/kg	1000	526	75.8	70-130	9.94	35	
Residual Range Organics (C28-C40)	1260	200	"	1000	115	114	70-130	23.5	35	
Surrogate: o-Terphenyl	49		"	49.8		99.5	50-150			

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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2924 - EPA 5030 (soil)										
Blank (B3K2924-BLK1)					Prepared: 11/29/2023 Analyzed: 11/29/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.8		70-130			

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Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2924 - EPA 5030 (soil)

LCS (B3K2924-BS1)

Prepared: 11/29/2023 Analyzed: 11/29/2023

1,2,4-Trimethylbenzene	0.0854	0.00200	mg/kg	0.100		85.4	70-130			
1,3,5-Trimethylbenzene	0.0853	0.00200	"	0.100		85.3	70-130			
Benzene	0.0886	0.00200	"	0.100		88.6	70-130			
Ethylbenzene	0.0883	0.00200	"	0.100		88.3	70-130			
Naphthalene	0.0892	0.00380	"	0.100		89.2	70-130			
Toluene	0.0806	0.00200	"	0.100		80.6	70-130			
o-Xylene	0.0946	0.00200	"	0.100		94.6	70-130			
m,p-Xylene	0.173	0.00400	"	0.200		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Ws

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 B3K2924 - EPA 5030 (soil)										
Matrix Spike (B3K2924-MS1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
1,2,4-Trimethylbenzene	0.418	0.00200	mg/kg	0.100	0.148	269	70-130			QM-07
1,3,5-Trimethylbenzene	0.383	0.00200	"	0.100	0.0926	290	70-130			QM-07
Benzene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
Ethylbenzene	0.137	0.00200	"	0.100	0.00714	130	70-130			
Naphthalene	0.152	0.00380	"	0.100	0.0288	123	70-130			
Toluene	0.147	0.00200	"	0.100	0.00774	139	70-130			QM-07
o-Xylene	0.313	0.00200	"	0.100	0.0408	272	70-130			QM-07
m,p-Xylene	0.822	0.00400	"	0.200	0.118	352	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		120	70-130			

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Ws

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 B3K2924 - EPA 5030 (soil)

Matrix Spike Dup (B3K2924-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
1,2,4-Trimethylbenzene	0.290	0.00200	mg/kg	0.100	0.148	142	70-130	36.0	20	QM-07
1,3,5-Trimethylbenzene	0.216	0.00200	"	0.100	0.0926	124	70-130	55.6	20	QR-02
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130	6.10	20	
Ethylbenzene	0.109	0.00200	"	0.100	0.00714	102	70-130	22.8	20	QR-02
Naphthalene	0.143	0.00380	"	0.100	0.0288	114	70-130	6.09	20	
Toluene	0.105	0.00200	"	0.100	0.00774	97.1	70-130	33.3	20	QR-02
o-Xylene	0.177	0.00200	"	0.100	0.0408	136	70-130	55.6	20	QM-07
m,p-Xylene	0.403	0.00400	"	0.200	0.118	143	70-130	68.5	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	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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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 B3K2923 - EPA 3580

Blank (B3K2923-BLK1)

Prepared: 11/29/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		86.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K2923 - EPA 3580

LCS (B3K2923-BS1)

Prepared: 11/29/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		95.2	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200		91.5	70-130
Acenaphthene	0.184	0.020	"	0.200		92.1	70-130
Anthracene	0.170	0.020	"	0.200		85.1	70-130
Benzo (a) anthracene	0.161	0.005	"	0.200		80.5	70-130
Benzo (a) pyrene	0.183	0.020	"	0.200		91.6	70-130
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.6	70-130
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.5	70-130
Chrysene	0.177	0.020	"	0.200		88.5	70-130
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.6	70-130
Fluoranthene	0.172	0.020	"	0.200		85.8	70-130
Fluorene	0.185	0.020	"	0.200		92.7	70-130
Indeno (1,2,3-cd) pyrene	0.172	0.020	"	0.200		86.0	70-130
Naphthalene	0.187	0.002	"	0.200		93.7	70-130
Phenanthrene	0.169	0.020	"	0.200		84.4	70-130
Pyrene	0.167	0.020	"	0.200		83.4	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	170		"	200		86.7	60-130
Surrogate: Pyrene-d10	190		"	200		95.3	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130

Matrix Spike (B3K2923-MS1)

Source: Y311654-01

Prepared: 11/29/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	0.228	0.002	mg/kg	0.200	0.075	76.6	70-130
2-Methylnaphthalene	0.274	0.002	"	0.200	0.160	56.7	70-130
Acenaphthene	0.193	0.020	"	0.200	0.011	90.6	70-130
Anthracene	0.163	0.020	"	0.200	0.002	80.2	70-130

QM-07

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Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2923 - EPA 3580

Matrix Spike (B3K2923-MS1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Benzo (a) anthracene	0.171	0.005	mg/kg	0.200	0.004	83.4	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	ND	95.0	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.0009	95.4	70-130			
Benzo (k) fluoranthene	0.161	0.020	"	0.200	ND	80.4	70-130			
Chrysene	0.174	0.020	"	0.200	0.002	85.9	70-130			
Dibenz (a,h) anthracene	0.178	0.020	"	0.200	ND	89.1	70-130			
Fluoranthene	0.181	0.020	"	0.200	0.0005	90.4	70-130			
Fluorene	0.201	0.020	"	0.200	0.016	92.5	70-130			
Indeno (1,2,3-cd) pyrene	0.165	0.020	"	0.200	ND	82.3	70-130			
Naphthalene	0.210	0.002	"	0.200	0.037	86.7	70-130			
Phenanthrene	0.177	0.020	"	0.200	0.015	81.2	70-130			
Pyrene	0.172	0.020	"	0.200	0.0006	85.6	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		87.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

Matrix Spike Dup (B3K2923-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	0.075	71.7	70-130	4.40	20	
2-Methylnaphthalene	0.245	0.002	"	0.200	0.160	42.3	70-130	11.1	20	QM-07
Acenaphthene	0.193	0.020	"	0.200	0.011	90.6	70-130	0.0696	20	
Anthracene	0.180	0.020	"	0.200	0.002	88.8	70-130	10.0	20	
Benzo (a) anthracene	0.176	0.005	"	0.200	0.004	85.8	70-130	2.78	20	
Benzo (a) pyrene	0.185	0.020	"	0.200	ND	92.3	70-130	3.09	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	ND	96.8	70-130	1.88	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.0009	101	70-130	5.21	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K2923 - EPA 3580

Matrix Spike Dup (B3K2923-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Benzo (k) fluoranthene	0.186	0.020	mg/kg	0.200	ND	93.0	70-130	14.6	20	
Chrysene	0.182	0.020	"	0.200	0.002	89.6	70-130	4.14	20	
Dibenz (a,h) anthracene	0.187	0.020	"	0.200	ND	93.5	70-130	4.90	20	
Fluoranthene	0.186	0.020	"	0.200	0.0005	92.6	70-130	2.39	20	
Fluorene	0.197	0.020	"	0.200	0.016	90.7	70-130	1.78	20	
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200	ND	84.9	70-130	3.04	20	
Naphthalene	0.210	0.002	"	0.200	0.037	86.5	70-130	0.244	20	
Phenanthrene	0.178	0.020	"	0.200	0.015	81.5	70-130	0.341	20	
Pyrene	0.168	0.020	"	0.200	0.0006	83.9	70-130	2.07	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	170		"	200		86.8	60-130			
Surrogate: Pyrene-d10	180		"	200		91.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 B3K3009 - Saturated Paste Metals

Blank (B3K3009-BLK1)

Prepared: 11/30/2023 Analyzed: 12/03/2023

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

Duplicate (B3K3009-DUP1)

Source: Y311657-06

Prepared: 11/30/2023 Analyzed: 12/03/2023

SAR	ND	0.0100	SAR		ND			200		U
Calcium PPM	51.0	10.0	mg/L		51.1			0.157	50	
Magnesium PPM	5.57	10.0	"		5.74			3.01	50	U
Sodium PPM	10.1	10.0	"		10.6			4.75	50	

Batch B3K3012 - DTPA Sorbitol Preparation

Blank (B3K3012-BLK1)

Prepared: 11/30/2023 Analyzed: 12/02/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3K3012-DUP1)

Source: Y311657-06

Prepared: 11/30/2023 Analyzed: 12/02/2023

Boron	0.131	0.101	mg/L		0.121			7.96	50	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K3015 - Saturated Paste pH/EC										
Blank (B3K3015-BLK1)					Prepared: 11/30/2023 Analyzed: 12/01/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3K3015-DUP1)					Source: Y311657-06 Prepared: 11/30/2023 Analyzed: 12/01/2023					
Specific Conductance (EC)	0.385	0.00500	mmhos/cm		0.394			2.13	25	
pH	8.20		pH Units		8.21			0.122	25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L720100 - 3050B

MSD (L 99184-MSD-L720100)		Source: 99184			Prepared: 12/01/2023 Analyzed: 12/14/2023					
Cadmium	0.772	0.25	mg/Kg	0.496	0.291	97	75-125	2.5	80	
Zinc	91.8	2.5	"	24.8	64.7	109	75-125	3.2	80	
Silver	0.905	0.25	"	0.496	0.375	107	75-125	8.4	80	
Selenium	5	0.25	"	4.96	1.12	78	75-125	7	80	
Nickel	16	0.25	"	2.48	13.3	109	75-125	0	80	
Copper	24.4	0.25	"	2.48	19	218	75-125	7.2	80	I*
Barium	108	0.25	"	4.96	94.2	278	75-125	6.6	80	*
Arsenic	5.46	0.25	"	2.48	3.6	75	75-125	1.4	80	
Lead	34.3	0.25	"	2.48	25.2	367	75-125	16	80	*
MS (L 99184-MS-L720100)		Source: 99184			Prepared: 12/01/2023 Analyzed: 12/14/2023					
Arsenic	5.54	0.25	mg/Kg	2.4	3.6	81	75-125			
Lead	29.2	0.25	"	2.4	25.2	167	75-125			*
Copper	22.7	0.25	"	2.4	19	154	75-125			I*
Barium	101	0.25	"	4.8	94.2	142	75-125			*
Nickel	16	0.25	"	2.4	13.3	113	75-125			
Zinc	88.9	2.5	"	24	64.7	101	75-125			
Silver	0.832	0.25	"	0.48	0.375	95	75-125			
Selenium	4.66	0.25	"	4.8	1.12	74	75-125			*
Cadmium	0.792	0.25	"	0.48	0.291	104	75-125			
LCS (LCS-L720100)		Prepared: 12/01/2023 Analyzed: 12/14/2023								
Selenium	4.22	0.25	mg/Kg	5		84	80-120			
Silver	0.481	0.25	"	0.5		96	80-120			
Cadmium	0.481	0.25	"	0.5		96	80-120			
Nickel	2.45	0.25	"	2.5		98	80-120			
Lead	2.45	0.25	"	2.5		98	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L720100 - 3050B

LCS (LCS-L720100)

Prepared: 12/01/2023 Analyzed: 12/14/2023

Copper	2.61	0.25	mg/Kg	2.5		104	80-120			
Arsenic	2.1	0.25	"	2.5		84	80-120			
Barium	4.47	0.25	"	5		89	80-120			
Zinc	23.5	2.5	"	25		94	80-120			

LRB (LRB-L720100)

Prepared: 12/01/2023 Analyzed: 12/14/2023

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.0809	0.25	"				-			J
Zinc	ND	2.5	"				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

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 L720909 -										
DUP (L 97755-DUP)		Source: 97755			Prepared: Analyzed: 12/07/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		97755	-		0	20	
MS (L 97755-MS)		Source: 97755			Prepared: Analyzed: 12/07/2023					
Chromium, Hexavalent	34.1	2.5	mg/Kg	38.9	97755	88	75-125			
LCS (LCS)					Prepared: Analyzed: 12/07/2023					
Chromium, Hexavalent	6.44	0.5	mg/Kg	8		81	75-125			
LRB (LRB)					Prepared: Analyzed: 12/07/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417519
Project: KMG - Davis St 20-16 & St of CO AM 4
Ws

Notes and Definitions

- U Sample is Non-Detect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- I* [Undefined]
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



March 04, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Davis St 20-16 & St of
Colorado AM Wellheads**

Project Number - 09A1417519

Attached are your analytical results for KMG - Davis St 20-16 & St of Colorado AM Wellheads received by Origins Laboratory, Inc. February 14, 2024. This project is associated with Origins project number Y402345-01.

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: 09A1417519

Project: KMG - Davis St 20-16 & St of Colorado
AM Wellheads

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y402345-01	Soil	February 14, 2024 13:30	02/14/2024 17:01

Origins Laboratory, Inc.



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analytical report must be reproduced in its entirety.*

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of Colorado
AM Wellheads

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402345

Client: Ensolum

Client Project ID: Davis St + St of CO Am

Checklist Completed by: JES

Shipped Via: FW

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

Date/time completed: 2/14/24

Airbill #: N/A

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

Cooler Number/Temperature: 1/7 °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⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JES

Date/Time Reviewed 2/14/24

Origins Laboratory, Inc.

J. Bynon

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of Colorado
AM Wellheads

B01@6'

2/14/2024 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402345-01 (Soil)

pH in Soil by 9045D

pH	8.46		pH Units	1	B4B1621	ACN	02/16/2024	02/17/2024	
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Table 915 metals by EPA 6020B

Lead	16.6	0.945	mg/kg	10	B4B1442	KMC	02/14/2024	02/29/2024	
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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: 09A1417519
Project: KMG - Davis St 20-16 & St of Colorado
AM Wellheads

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 B4B1442 - EPA 3050B										
Blank (B4B1442-BLK1)					Prepared: 02/14/2024 Analyzed: 02/27/2024					
Lead	ND	1.00	mg/kg							
LCS (B4B1442-BS1)					Prepared: 02/14/2024 Analyzed: 02/29/2024					
Lead	4.35	1.00	mg/kg	5.00		87.0	80-120			
Matrix Spike (B4B1442-MS1)		Source: Y402342-05			Prepared: 02/14/2024 Analyzed: 02/29/2024					
Lead	6.22	0.873	mg/kg	4.36	2.36	88.4	75-125			
Matrix Spike Dup (B4B1442-MSD1)		Source: Y402342-05			Prepared: 02/14/2024 Analyzed: 02/29/2024					
Lead	7.76	0.959	mg/kg	4.79	2.36	113	75-125	22.1	20	QR-02

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of Colorado
AM Wellheads

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 B4B1621 - Saturated Paste pH/EC

Duplicate (B4B1621-DUP1)

Source: Y402262-01

Prepared: 02/16/2024 Analyzed: 02/17/2024

pH	8.29		pH Units	8.30				0.121	25	
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417519

Project: KMG - Davis St 20-16 & St of Colorado
AM Wellheads

Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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