

**TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
GNB W 31-3,4,5J,6 FACILITY
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)
ABOVEGROUND STORAGE TANK SAMPLES								
HATCH	2/27/2024	0.5	0.5	NS	NO	40.098356	-104.826011	N
AST01 @0.5'	2/27/2024	0.5	1.2	NS	NO	40.098349	-104.826025	Y
LOADOUT	2/27/2024	0.5	0.8	NS	NO	40.098354	-104.826053	N
PRODUCED WATER VESSEL SAMPLES								
N WALL	2/27/2024	3	152.1	STAIN	ODOR	40.098399	-104.826089	N
E WALL	2/27/2024	3	205.4	STAIN	ODOR	40.09839	-104.826071	N
W WALL	2/27/2024	3	354.1	STAIN	ODOR	40.098385	-104.826109	N
PWV-S01 @3'	2/27/2024	3	471.2	STAIN	ODOR	40.098377	-104.826092	Y
PWV-B01 @5'	2/27/2024	5	1781.0	STAIN	ODOR	40.098368	-104.826086	Y
SEPARATOR SAMPLES								
SEP01-INLET@4'	2/27/2024	4	1.2	NS	NO	40.09859	-104.826085	Y
SEP01-OUTLET@4'	2/27/2024	4	2.1	NS	NO	40.098537	-104.826047	Y
COMBINED EXCAVATION SAMPLES								
B01 @6'	4/5/2024	6	0.0	NS	NO	40.098294	-104.826055	Y
B02 @6'	4/5/2024	6	0.0	NS	NO	40.098355	-104.826165	Y
B03 @6'	4/5/2024	6	0.5	NS	NO	40.098352	-104.826064	Y
B04 @6'	4/5/2024	6	5.2	NS	NO	40.098356	-104.825979	Y
B05 @6'	4/5/2024	6	3.3	NS	NO	40.098453	-104.826129	Y
B06 @6'	4/5/2024	6	2.7	NS	NO	40.098454	-104.826027	Y
B07 @6'	4/5/2024	6	5.3	NS	NO	40.098502	-104.826062	Y
E01 @3'	4/5/2024	3	5.2	NS	NO	40.098523	-104.826013	Y
E02 @3'	4/5/2024	3	1.0	NS	NO	40.098474	-104.825976	Y
E03 @3'	4/5/2024	3	2.9	NS	NO	40.098412	-104.825959	Y
E04 @3'	4/5/2024	3	6.2	NS	NO	40.098346	-104.825945	Y
E05 @3'	4/5/2024	3	2.8	STAIN	NO	40.09829	-104.825947	Y
S01 @3'	4/5/2024	3	0.0	NS	NO	40.098269	-104.826201	Y
S02 @3'	4/5/2024	3	1.7	NS	NO	40.098269	-104.826128	Y
S03 @3'	4/5/2024	3	0.0	NS	NO	40.098268	-104.826066	Y
S04 @3'	4/5/2024	3	10.2	NS	NO	40.098269	-104.825991	Y
W01 @3'	4/5/2024	3	0.0	NS	NO	40.098301	-104.826221	Y
W02 @3'	4/5/2024	3	0.0	NS	NO	40.098355	-104.82623	Y
W03 @3'	4/5/2024	3	128.2	STAIN	ODOR	40.098403	-104.826213	Y
W04 @3'	4/17/2024	3	2.4	NS	NO	40.098452	-104.826227	Y
W05 @3'	4/17/2024	3	3.7	NS	NO	40.098511	-104.826232	Y
N01 @3'	4/17/2024	3	2.5	NS	NO	40.098558	-104.826211	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
COMBINED EXCAVATION SAMPLES								
N02@3'	4/17/2024	3	1.9	NS	NO	40.098563	-104.826134	Y
N03@3'	4/17/2024	3	2.2	NS	NO	40.098564	-104.826061	Y
B08@6'	4/17/2024	6	3.3	NS	NO	40.098505	-104.826197	Y
MISCELLANEOUS SAMPLES								
DUMPLINES	2/27/2024	NA	181.4	STAIN	ODOR	40.09838501	-104.826065	N
FLOWLINE SAMPLES								
FL01@5'	2/27/2024	5	951.4	STAIN	ODOR	40.098449	-104.826081	Y
FL02@5'	4/5/2024	5	6.7	NO	NO	40.098579	-104.826131	Y
FL02@5'-V	4/5/2024	5	6.7	NO	NO	40.098579	-104.826131	Y
FL03@5'	4/5/2024	5	4.2	NO	NO	40.098542	-104.826139	Y
FL03@5'-V	4/5/2024	5	4.2	NO	NO	40.098542	-104.826139	Y
FL04@4'	4/5/2024	4	1.8	NO	NO	40.098576	-104.826296	Y
FL04@4'-V	4/5/2024	4	1.8	NO	NO	40.098576	-104.826296	Y
FL05@4'	4/5/2024	4	9.1	NO	NO	40.098369	-104.826336	Y
FL05@4'-V	4/5/2024	4	9.1	NO	NO	40.098369	-104.826336	Y
FL06@5'	4/5/2024	5	12.2	NO	NO	40.098360	-104.826494	Y
FL06@5'-V	4/5/2024	5	12.2	NO	NO	40.098360	-104.826494	Y
FL07@4'	4/5/2024	4	5.0	NO	NO	40.098335	-104.826505	Y
FL07@4'-V	4/5/2024	4	5.0	NO	NO	40.098335	-104.826505	Y
FL08@3'	4/11/2024	3	0.6	NO	NO	40.098378	-104.827423	Y
FL08@3'-V	4/11/2024	3	0.6	NO	NO	40.098378	-104.827423	Y
PH09	4/11/2024	3	1.1	NO	NO	40.098337	-104.827432	N
PH10	4/11/2024	3	1.0	NO	NO	40.098356	-104.828417	N
PH11	4/11/2024	3	0.9	NO	NO	40.098334	-104.828416	N
PH12	4/11/2024	3	1.5	NO	NO	40.098370	-104.829193	N
FL09@2'	4/11/2024	2	0.6	NO	NO	40.0983348	-104.8291862	Y
FL09@2'-V	4/11/2024	2	0.6	NO	NO	40.0983348	-104.8291862	Y
PH14	4/11/2024	2	0.0	NS	NO	40.098359	-104.829726	N
PH15	4/11/2024	2	0.4	NS	NO	40.098349	-104.829741	N
FL10@3'	4/11/2024	3	0.0	NO	NO	40.098360	-104.829986	Y
FL10@3'-V	4/11/2024	3	0.0	NO	NO	40.098360	-104.829986	Y
FL11@3'	4/11/2024	3	0.3	NO	NO	40.098291	-104.82998	Y
FL11@3'-V	4/11/2024	3	0.3	NO	NO	40.098291	-104.82998	Y

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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)
BACKGROUND SOIL SAMPLES								
TB-BG01@0.5'	2/27/2024	0.5	1.8	NS	NO	40.098315	-104.825983	Y
NATIVE-BG01@3'	2/27/2024	3	0.4	NS	NO	40.098335	-104.825774	Y
NATIVE-BG01@6'	2/27/2024	6	0.5	NS	NO	40.098335	-104.825774	Y
NATIVE-BG02@3'	4/11/2024	3	0.7	NS	NO	40.098457	-104.829103	Y
NATIVE-BG02@6'	4/11/2024	6	0.4	NS	NO	40.098457	-104.829103	Y
NATIVE-BG03@3'	4/11/2024	3	1.0	NS	NO	40.098505	-104.827435	Y
NATIVE-BG03@6'	4/11/2024	6	0.6	NS	NO	40.098505	-104.827435	Y
NATIVE-BG01@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100212	-104.822625	Y
NATIVE-BG01@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100212	-104.822625	Y
NATIVE-BG02@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100169	-104.822785	Y
NATIVE-BG02@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100169	-104.822785	Y
NATIVE-BG03@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100047	-104.822838	Y
NATIVE-BG03@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100047	-104.822838	Y
NATIVE-BG04@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.099941	-104.822818	Y
NATIVE-BG04@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.099941	-104.822818	Y
NATIVE-BG05@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100080	-104.822984	Y
NATIVE-BG05@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100080	-104.822984	Y
NATIVE-BG06@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.099999	-104.823153	Y
NATIVE-BG06@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.099999	-104.823153	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
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO* (mg/kg)	TPH-DRO* (mg/kg)	TPH-RRO* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01 @0.5'	2/27/2024	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
PRODUCED WATER VESSEL SAMPLES												
PWV-S01 @3'	2/27/2024	3	3.07	249	197	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.004
PWV-B01 @5'	2/27/2024	5	2250	2540	1480	<0.0500	0.0695	0.0665	0.185	<0.0500	<0.0500	1.82
SEPARATOR SAMPLES												
SEP01-INLET@4'	2/27/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
SEP01-OUTLET@4'	2/27/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
COMBINED EXCAVATION SAMPLES												
B01 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	0.00276	0.00432	0.0022	<0.00200	<0.00200	<0.002
B02 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B03 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B04 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B05 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B06 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B07 @6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E01 @3'	4/5/2024	3	2.90	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E02 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E03 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E04 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E05 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S01 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S02 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S03 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S04 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W01 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W02 @3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W03 @3'	4/5/2024	3	5.91	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W04 @3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W05 @3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
N01 @3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
N02 @3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
N03 @3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B08 @6'	4/17/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FLOWLINE SAMPLES												
FL01 @5'	2/27/2024	5	108	26.4	<100	0.0232	0.00276	0.00432	0.0022	<0.00200	<0.00200	0.352
FL02 @5'	4/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL02 @5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03 @5'	4/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL03 @5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL04 @4'	4/5/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL04 @4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL05 @4'	4/5/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002

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Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
FLOWLINE SAMPLES												
FL05@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL06@5'	4/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL06@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL07@4'	4/5/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL07@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL08@3'	4/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL08@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL09@2'	4/11/2024	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL09@2'-V	4/11/2024	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL10@3'	4/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL10@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL11@3'	4/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL11@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ECMC - Energy and Carbon Management Commission
 PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
 TPH - total petroleum hydrocarbons
 GRO - gasoline range organics
 DRO - diesel range organics
 RRO - residual range organics
 +Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

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

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
ABOVEGROUND STORAGE TANK SAMPLES																
AST01@0.5'	2/27/2024	0.5	<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
PRODUCED WATER VESSEL SAMPLES																
PWV-S01@3'	2/27/2024	3	<0.020	<0.020	0.006	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.044	<0.020	0.011	0.018	<0.020
PWV-B01@5'	2/27/2024	5	0.468	0.043	<0.005	<0.040	<0.040	<0.040	0.036	<0.040	<0.020	0.548	<0.040	3.18	6.42	0.029
SEPARATOR SAMPLES																
SEP01-INLET@4'	2/27/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
SEP01-OUTLET@4'	2/27/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
COMBINED EXCAVATION SAMPLES																
B01@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B02@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B03@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B04@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B05@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B06@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B07@6'	4/5/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E01@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E02@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E03@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E04@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E05@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
S01@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
S02@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
S03@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
S04@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
W01@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
W02@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
W03@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.005	<0.002	<0.020
W04@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
W05@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
N01@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
N02@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
N03@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B08@6'	4/17/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FLOWLINE SAMPLES																
FL01@5'	2/27/2024	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.213	0.433	<0.020
FL02@5'	4/5/2024	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL02@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@5'	4/5/2024	5	<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

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
FLOWLINE SAMPLES																
FL03@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL04@4'	4/5/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL04@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL05@4'	4/5/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL05@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL06@5'	4/5/2024	5	<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
FL06@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL07@4'	4/5/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL07@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL08@3'	4/11/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL08@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL09@2'	4/11/2024	2	<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
FL09@2'-V	4/11/2024	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL10@3'	4/11/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL10@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL11@3'	4/11/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL11@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

**TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
GNB W 31-3,4,5J,6 FACILITY
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 (TB)			0.432	1.69	8.30	0.196
Site-Specific Background Limits (3'-6')			3.86	24.3	8.59	2.66
ABOVEGROUND STORAGE TANK SAMPLES						
AST01 @0.5'	2/27/2024	0.5	0.481	1.86	9.42	<0.101
PRODUCED WATER VESSEL SAMPLES						
PWV-S01 @3'	2/27/2024	3	1.50	2.90	8.23	3.61
PWV-B01 @5'	2/27/2024	5	0.686	5.18	7.70	1.19
SEPARATOR SAMPLES						
SEP01-INLET@4'	2/27/2024	4	0.0996	0.280	8.14	<0.101
SEP01-OUTLET@4'	2/27/2024	4	0.230	0.534	8.38*	0.170
COMBINED EXCAVATION SAMPLES						
B01 @6'	4/5/2024	6	NA	1.53	7.78	<0.0990
B02@6'	4/5/2024	6	NA	1.57	7.99	<0.102
B03@6'	4/5/2024	6	NA	1.84	8.19	<0.101
B04@6'	4/5/2024	6	NA	1.74	8.31*	<0.100
B05@6'	4/5/2024	6	NA	1.58	8.04	<0.100
B06@6'	4/5/2024	6	NA	1.85	8.26	<0.100
B07@6'	4/5/2024	6	NA	1.70	7.98	<0.100
E01 @3'	4/5/2024	3	NA	1.98	8.34*	0.108
E02@3'	4/5/2024	3	NA	1.57	7.96	<0.100
E03@3'	4/5/2024	3	NA	1.59	7.80	<0.100
E04@3'	4/5/2024	3	NA	1.77	8.11	<0.100
E05@3'	4/5/2024	3	NA	8.80*	8.88	<1.00
S01 @3'	4/5/2024	3	NA	2.45	8.43*	<0.100
S02@3'	4/5/2024	3	NA	1.44	8.03	<0.100
S03@3'	4/5/2024	3	NA	3.32	7.77	<0.100
S04@3'	4/5/2024	3	NA	3.07	7.92	<0.100
W01 @3'	4/5/2024	3	NA	2.18	8.15	<0.100
W02@3'	4/5/2024	3	NA	8.67*	8.49*	2.35*
W03@3'	4/5/2024	3	NA	12.2*	8.53*	1.23
W04@3'	4/17/2024	3	NA	3.04	8.54*	<1.01
W05@3'	4/17/2024	3	NA	8.10*	8.55*	<1.01
N01 @3'	4/17/2024	3	NA	14.8*	8.60	1.08
N02@3'	4/17/2024	3	NA	1.46	8.28	<0.101
N03@3'	4/17/2024	3	NA	0.182	8.39*	<0.990
B08@6'	4/17/2024	6	NA	1.68	8.17	<0.0996
FLOWLINE SAMPLES						
FL01@5'	2/27/2024	5	1.40	30.8	8.23	2.82
FL02@5'	4/5/2024	5	0.394	0.853	8.47*	0.220
FL02@5'-V	4/5/2024	5	NA	NA	8.47*	NA
FL03@5'	4/5/2024	5	0.563	2.21	8.53*	0.278

**TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
GNB W 31-3,4,5J,6 FACILITY
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 (TB)			0.432	1.69	8.30	0.196
Site-Specific Background Limits (3'-6')			3.86	24.3	8.59	2.66
FLOWLINE SAMPLES						
FL03@5'-V	4/5/2024	5	NA	NA	8.55*	NA
FL04@4'	4/5/2024	4	1.75	12.2*	8.44*	1.68
FL04@4'-V	4/5/2024	4	NA	NA	8.78	NA
FL05@4'	4/5/2024	4	1.78	5.94	8.40*	0.721
FL05@4'-V	4/5/2024	4	NA	NA	8.58*	NA
FL06@5'	4/5/2024	5	0.722	3.34	8.37*	<0.997
FL06@5'-V	4/5/2024	5	NA	NA	8.60	NA
FL07@4'	4/5/2024	4	0.693	3.24	8.18	<0.992
FL07@4'-V	4/5/2024	4	NA	NA	8.25	NA
FL08@3'	4/11/2024	3	0.520	2.59	8.02	<0.0994
FL08@3'-V	4/11/2024	3	NA	NA	8.22	NA
FL09@2'	4/11/2024	2	0.496	2.89	8.15	<0.0989
FL09@2'-V	4/11/2024	2	NA	NA	8.15	NA
FL10@3'	4/11/2024	3	0.703	2.49	8.46*	0.273
FL10@3'-V	4/11/2024	3	NA	NA	8.32*	NA
FL11@3'	4/11/2024	3	0.211	0.771	8.30	0.155
FL11@3'-V	4/11/2024	3	NA	NA	7.75	NA
BACKGROUND SAMPLES						
TB-BG01 @0.5'	2/27/2024	0.5	0.432	1.69	8.30	0.196
NATIVE-BG01 @3'	2/27/2024	3	3.86	24.3	8.59	2.66
NATIVE-BG01 @6'	2/27/2024	6	2.47	15.9	8.51	0.869
NATIVE-BG02 @3'	4/11/2024	3	0.593	3.20	8.02	0.218
NATIVE-BG02 @6'	4/11/2024	6	0.307	2.45	7.94	<0.0989
NATIVE-BG03 @3'	4/11/2024	3	0.427	2.38	8.19	<0.0996
NATIVE-BG03 @6'	4/11/2024	6	0.598	3.14	8.27	<0.0996
NATIVE-BG01 @3' (Rem No. 32961)	2/22/2024	3	0.349	3.82	7.89	0.183
NATIVE-BG01 @6' (Rem No. 32961)	2/22/2024	6	0.429	3.88	7.98	0.201
NATIVE-BG02 @3' (Rem No. 32961)	2/22/2024	3	0.473	3.40	7.82	0.467
NATIVE-BG02 @6' (Rem No. 32961)	2/22/2024	6	0.166	2.58	7.80	<0.101
NATIVE-BG03 @3' (Rem No. 32961)	2/22/2024	3	1.54	3.40	8.00	<0.0998
NATIVE-BG03 @6' (Rem No. 32961)	2/22/2024	6	0.452	3.16	7.94	0.156
NATIVE-BG04 @3' (Rem No. 32961)	2/22/2024	3	<0.005	3.74	7.67	0.510
NATIVE-BG04 @6' (Rem No. 32961)	2/22/2024	6	1.12	4.06	8.39	<1.01
NATIVE-BG05 @3' (Rem No. 32961)	2/22/2024	3	0.355	2.98	8.30	0.459
NATIVE-BG05 @6' (Rem No. 32961)	2/22/2024	6	0.311	2.72	7.85	<0.0993
NATIVE-BG06 @3' (Rem No. 32961)	2/22/2024	3	0.972	3.07	7.90	<0.994
NATIVE-BG06 @6' (Rem No. 32961)	2/22/2024	6	0.513	2.94	7.94	<0.101

**TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

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

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

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

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	2/27/2024	0.5	1.51*	44.1	<0.0966	<0.5	<9.66	5.65	5.21	<0.251	<0.0966	<35.7
PRODUCED WATER VESSEL SAMPLES												
PWV-S01@3'	2/27/2024	3	4.41*	223*	0.424*	<2.5	34.3	46.1	12.2	0.710	0.415	132
PWV-B01@5'	2/27/2024	5	2.14*	102*	0.236	<2.5	12.1	12.2	6.50	0.366*	0.102	60.4
SEPARATOR SAMPLES												
SEP01-INLET@4'	2/27/2024	4	1.02*	30.3	0.116	<0.5	<9.41	3.94	2.31	<0.245	<0.0941	<34.8
SEP01-OUTLET@4'	2/27/2024	4	1.30*	43.1	<0.0959	<0.5	<9.59	6.34	3.51	<0.249	<0.0959	<35.5
COMBINED EXCAVATION SAMPLES												
B01@6'	4/5/2024	6	0.453*	18.2	<0.0859	NA	<8.59	1.30	0.908	<0.223	<0.0859	<31.8
B02@6'	4/5/2024	6	0.517*	9.14	<0.0845	NA	<8.45	1.56	<0.845	<0.220	<0.0845	<31.3
B03@6'	4/5/2024	6	0.450*	<9.67	<0.0967	NA	<9.67	1.38	<0.967	<0.251	<0.0967	<35.8
B04@6'	4/5/2024	6	0.603*	19.0	<0.0919	NA	<9.19	1.50	0.941	<0.239	<0.0919	<34.0
B05@6'	4/5/2024	6	0.606*	<9.95	<0.0995	NA	<9.95	1.56	1.68	<0.259	<0.0995	<36.8
B06@6'	4/5/2024	6	0.449*	<9.20	<0.0920	NA	<9.20	1.47	<0.920	<0.239	<0.0920	<34.0
B07@6'	4/5/2024	6	0.563*	<9.48	<0.0948	NA	<9.48	1.17	<0.948	<0.247	<0.0948	<35.1
E01@3'	4/5/2024	3	0.968*	16.3	<0.0874	NA	<8.74	3.16	1.52	<0.227	<0.0874	<32.3
E02@3'	4/5/2024	3	2.57*	9.60	0.0877	NA	<8.77	4.27	1.06	<0.228	<0.0877	<32.5
E03@3'	4/5/2024	3	0.653*	<9.53	<0.0953	NA	<9.53	1.69	<0.953	<0.248	<0.0953	<35.3
E04@3'	4/5/2024	3	0.640*	11.2	<0.0921	NA	<9.21	1.10	<0.921	<0.239	<0.0921	<34.1
E05@3'	4/5/2024	3	2.54*	138*	0.123	NA	8.69	8.37	7.96	<0.222	<0.0855	42.6
S01@3'	4/5/2024	3	1.07*	10.2	<0.0856	NA	<8.56	3.73	2.04	<0.222	<0.0856	<31.7
S02@3'	4/5/2024	3	0.998*	14.5	<0.0943	NA	<9.43	2.65	1.18	<0.245	<0.0943	<34.9
S03@3'	4/5/2024	3	0.915*	17.3	<0.0949	NA	<9.49	3.25	1.11	<0.247	<0.0949	<35.1
S04@3'	4/5/2024	3	1.10*	16.5	<0.0940	NA	<9.40	3.51	1.13	<0.244	<0.0940	<34.8
W01@3'	4/5/2024	3	0.766*	14.3	<0.0978	NA	<9.78	3.23	1.24	<0.254	<0.0978	<36.2
W02@3'	4/5/2024	3	3.37*	122*	0.229	NA	21.7	19.3*	9.42	0.434*	0.163	65.2
W03@3'	4/5/2024	3	3.23*	155*	0.277	NA	23.3	18.8*	11.3	0.532	0.149	79.7
W04@3'	4/17/2024	3	3.33*	142*	0.436*	NA	27.5	28.0*	8.39	0.357*	0.295	84.6
W05@3'	4/17/2024	3	4.88*	234	0.285	NA	16.4	12.1	9.4	0.845	<0.0859	67.1
N01@3'	4/17/2024	3	2.16*	148*	0.107	NA	<9.65	10.1	8.28	0.274*	<0.0965	60.4
N02@3'	4/17/2024	3	1.46*	22.9	<0.0877	NA	<8.77	2.98	1.48	<0.228	<0.0877	<32.5
N03@3'	4/17/2024	3	4.38*	60.8	0.198	NA	8.92	8.06	5.25	<0.231	<0.0890	<32.9
B08@6'	4/17/2024	6	0.426*	<8.42	<0.0842	NA	<8.42	1.44	<0.842	<0.219	<0.0842	<31.2

**TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
FLOWLINE SAMPLES												
FL01@5'	2/27/2024	5	2.03*	232	0.141	<2.5	8.82	9.84	8.52	0.356*	<0.0844	77.0
FL02@5'	4/5/2024	5	2.62*	73.2	0.178	<0.338	10.7	13.8	6.62	<0.252	0.099	41.1
FL02@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@5'	4/5/2024	5	4.42*	115*	0.147	<0.257	10.1	11.1	7.34	0.381*	<0.0968	49.3
FL03@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL04@4'	4/5/2024	4	5.54*	168*	0.496	<0.404	24.4	28.3*	9.26	0.411*	0.286	81.7
FL04@4'-V	4/5/2024	4	2.97*	145*	0.160	NA	12.8	11.9	8.69	0.284	0.0978	58.4
FL05@4'	4/5/2024	4	2.87*	97.9*	0.358	<0.327	19.4	19.9*	6.23	<0.248	0.253	59.7
FL05@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL06@5'	4/5/2024	5	2.70*	103*	0.246	0.179	16.0	14.1*	8.91	0.561	0.122	71.9
FL06@5'-V	4/5/2024	5	NA	NA	NA	<0.378	NA	NA	NA	NA	NA	NA
FL07@4'	4/5/2024	4	3.07*	120*	<0.0927	0.245	9.63	9.99	8.12	<0.241	<0.0927	48.9
FL07@4'-V	4/5/2024	4	NA	NA	NA	<0.359	NA	NA	NA	NA	NA	NA
FL08@3'	4/11/2024	3	1.64*	42.1	0.114	<0.373	<8.84	6.41	2.83	<0.230	<0.0884	<32.7
FL08@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL09@2'	4/11/2024	2	1.30*	26.4	<0.0964	0.109	<9.64	4.29	1.64	<0.251	<0.0964	<35.7
FL09@2'-V	4/11/2024	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL10@3'	4/11/2024	3	2.38*	72.3	0.196	<0.387	11.5	10.3	5.14	<0.233	0.0978	36.7
FL10@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL11@3'	4/11/2024	3	2.12*	53.7	0.157	<0.257	<9.99	6.58	3.86	<0.260	<0.0999	<36.9
FL11@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
TB-BG01@0.5'	2/27/2024	0.5	2.30	104	0.160	<0.5	<9.75	9.40	6.20	<0.254	<0.0975	147
NATIVE-BG01@3'	2/27/2024	3	3.02	168	0.124	<0.5	10.5	11.9	7.44	0.508	<0.0915	90.2
NATIVE-BG01@6'	2/27/2024	6	0.902	34.8	<0.0844	<0.5	<8.44	3.70	1.85	<0.220	<0.0844	<31.2
NATIVE-BG02@3'	4/11/2024	3	2.51	46.1	0.289	<0.401	11.3	11.8	4.01	<0.248	0.170	39.7
NATIVE-BG02@6'	4/11/2024	6	1.55	29.0	<0.0893	<0.341	<8.93	2.61	1.82	<0.232	<0.0893	<33.1
NATIVE-BG03@3'	4/11/2024	3	1.47	66.2	<0.0996	<0.416	<9.96	3.60	2.59	<0.259	<0.0996	<36.9
NATIVE-BG03@6'	4/11/2024	6	1.69	43.3	<0.0963	<0.376	<9.63	3.54	2.53	<0.250	<0.0963	<35.6
NATIVE-BG01@3' (Rem No. 32961)	2/22/2024	3	1.62	50.1	<0.0946	<0.5	<9.46	4.69	3.42	<0.246	<0.0946	<35.0
NATIVE-BG01@6' (Rem No. 32961)	2/22/2024	6	2.48	67.7	0.135	<0.5	<9.26	9.10	5.56	<0.241	<0.0926	35.6
NATIVE-BG02@3' (Rem No. 32961)	2/22/2024	3	3.75	143	0.117	<0.5	13.0	11.3	9.44	<0.235	<0.0905	60.9
NATIVE-BG02@6' (Rem No. 32961)	2/22/2024	6	1.68	42.1	0.112	<0.5	<9.37	6.42	4.29	<0.244	<0.0937	<34.7
NATIVE-BG03@3' (Rem No. 32961)	2/22/2024	3	5.40	225	0.216	<2.5	16.4	15.9	13.4	0.396	0.0931	104
NATIVE-BG03@6' (Rem No. 32961)	2/22/2024	6	4.13	67.1	0.092	<1	<9.11	7.13	5.33	0.142	<0.0911	44.3

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
BACKGROUND SAMPLES												
NATIVE-BG04@3' (Rem No. 32961)	2/22/2024	3	6.09	215	0.197	<2.53	14.5	14.9	12.6	0.319	<0.0966	87.9
NATIVE-BG04@6' (Rem No. 32961)	2/22/2024	6	3.09	100	0.163	<0.5	<9.52	9.86	8.12	0.453	<0.0952	61.4
NATIVE-BG05@3' (Rem No. 32961)	2/22/2024	3	5.36	111	0.444	<0.5	24.4	30.3	7.72	0.232	0.318	94.6
NATIVE-BG05@6' (Rem No. 32961)	2/22/2024	6	1.10	35.4	<0.0914	<0.5	<9.14	3.53	2.14	<0.0914	<0.0914	34.6
NATIVE-BG06@3' (Rem No. 32961)	2/22/2024	3	5.36	230	0.367	<1	12.5	12.5	16.0	0.237	<0.0921	96.0
NATIVE-BG06@6' (Rem No. 32961)	2/22/2024	6	1.26	31.5	<0.0901	<0.5	<9.01	3.44	2.08	<0.0901	<0.0901	<33.3

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

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

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

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

**TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GNB W 31-3,4,5J,6 FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-trimethylbenzene (µg/L)	1,3,5-trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		5	560	700	1400	140	67	67	1,938,000	286,000	524,000	
GW01	3/27/2024	<1.00	<1.00	<1.00	<1.00	11.2	<2.00	<2.00	1,190,000	175,000	508,000	4.0
GW02	4/5/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,120,000	183,000	526,000	3.0
FL04-GW	4/5/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,130,000	193,000	537,000	3.5
FL05-GW	4/5/2024	<1.00	5.63	<1.00	4.37	<2.00	<2.00	<2.00	1,220,000	201,000	513,000	3.5
FL06-GW	4/5/2024	1.14	25.7	2.07	30.6	<2.00	3.91	<2.00	1,180,000	204,000	494,000	4.0
FL08-GW	4/11/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,150,000	223,000	423,000	3.0
FL09-GW	4/11/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,450,000	255,000	491,000	2.0
BG02-GW	4/11/2024	NA	NA	NA	NA	NA	NA	NA	1,350,000	251,000	486,000	6.0
BG03-GW	4/11/2024	NA	NA	NA	NA	NA	NA	NA	1,550,000	229,000	419,000	6.0

Notes: ECMC - Energy and Carbon Management Commission
ft bgs - feet below ground surface
NA - not analyzed/not available
Total dissolved solids, chloride ion, and sulfate ion parameters based on background samples (BG02-GW & BG03-GW) concentration x 1.25
BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

March 15, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. February 27, 2024. This project is associated with Origins project number Y402672-01.

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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV-B01@5'	Y402672-01	Soil	February 27, 2024 13:15	02/27/2024 16:53
PWV-S01@3'	Y402672-02	Soil	February 27, 2024 13:20	02/27/2024 16:53
AST01@0.5'	Y402672-03	Soil	February 27, 2024 13:25	02/27/2024 16:53
SEP01-INLET@4'	Y402672-04	Soil	February 27, 2024 13:30	02/27/2024 16:53
SEP01-OUTLET@4'	Y402672-05	Soil	February 27, 2024 14:00	02/27/2024 16:53
NATIVE-BG01@3'	Y402672-06	Soil	February 27, 2024 14:15	02/27/2024 16:53
NATIVE-BG01@6'	Y402672-07	Soil	February 27, 2024 16:00	02/27/2024 16:53
TB-BG01@0.5'	Y402672-08	Soil	February 27, 2024 16:05	02/27/2024 16:53
FL01@5'	Y402672-09	Soil	February 27, 2024 15:00	02/27/2024 16:53

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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page of

Client: Ensolum
 Address: _____
 Telephone Number: 303 889 9943
 Email Address: Kmg Team
 Project Manager: Jeremy Espinoza
 Project Name: SUB W 31-3,4,5J,6 Facility
 Project Number: O9A1417648
 Samples Collected By: Kyle Mahline

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Full list 915		pH, EC, SAS (27)
B PVV-Bol 05	2/27/24	1315	3											sample added 1 per files message on 2/27
PVV-5a103		1320	1											
AST1005		1325	1											
SEP01-Sub 04		1330	1											
SEP01-011-ETW		1400	1											
NATLUE-B6+103		1415	3											
NATLUE-B6+186		1600	2											
TB-B6+1005		1605	2											
FL1005	2/27/24	1500	3	X										
Relinquished By: <u>Kyle Mahline</u>	Date: <u>2/27/24</u>	Time: <u>1613</u>	Received By: <u>[Signature]</u>	Date: <u>2/27/24</u>	Time: <u>1613</u>	Turnaround time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard								
Date: <u>2/27/24</u>	Time: <u>1653</u>	Received By: <u>[Signature]</u>	Date: <u>2/27/24</u>	Time: <u>1653</u>										

Temp Received: 3

Date Results Needed

Origins Laboratory, Inc.

[Signature]

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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9402672

Client: Ensolum

Client Project ID: GNB W 31-3,4,5J,6

Checklist Completed by: JEN/IAN

Shipped Via: TD

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

Date/time completed: 2/27/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

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

⁽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 2/27/12

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-B01@5'
2/27/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.19		0.101	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	2540		25.0	mg/kg	1	B4B2726	02/27/2024	02/27/2024	
Residual Range Organics (C28-C40)	1480		100	"	"	"	"	"	

Surrogate: o-Terphenyl	112 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.0500	mg/kg	25	B4B2727	02/27/2024	02/28/2024	R-05, U
1,3,5-Trimethylbenzene	ND		0.0500	"	"	"	"	"	R-05, U
Benzene	ND		0.0500	"	"	"	"	"	R-05, U
Ethylbenzene	0.0665		0.0500	"	"	"	"	"	
Toluene	0.0695		0.0500	"	"	"	"	"	
Xylenes, total	0.185		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	2250		50.0	"	250	"	"	02/27/2024	

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	02/28/2024	
Surrogate: Toluene-d8	148 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-B01@5'
2/27/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.04		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.51		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	3.18		0.020	mg/kg	10	B4B2725	02/27/2024	02/28/2024	
2-Methylnaphthalene	6.42		0.020	"	"	"	"	"	
Acenaphthene	0.468		0.020	"	1	"	"	02/27/2024	
Anthracene	0.043		0.020	"	"	"	"	"	
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.040	"	2	"	"	02/28/2024	R-01, U
Benzo (b) fluoranthene	ND		0.040	"	"	"	"	"	R-01, U
Benzo (k) fluoranthene	ND		0.040	"	"	"	"	"	R-01, U
Chrysene	0.036		0.020	"	1	"	"	02/27/2024	
Dibenz (a,h) anthracene	ND		0.040	"	2	"	"	02/28/2024	R-01, U
Fluoranthene	ND		0.020	"	1	"	"	02/27/2024	U
Fluorene	0.548		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.040	"	2	"	"	02/28/2024	R-01, U
Naphthalene	1.82		0.004	"	"	"	"	"	
Pyrene	0.029		0.020	"	1	"	"	02/27/2024	
Surrogate: Fluorene-d10	95.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	

Origins Laboratory, Inc.



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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-B01@5'
2/27/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-01 (Soil)

PAH by EPA 8270E

Surrogate: Pyrene-d10	84.5 %		60-130			B4B27 25	02/27/2024	02/27/2024	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	02/28/2024	

pH in Soil by 9045D

pH	7.70			pH Units	1	B4B2820	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	5.18		0.0100	SAR	1	B4B2808	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.686		0.00500	mmhos/cm	1	B4B2820	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.14		0.260	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	102		8.96	"	"	"	"	"	
Cadmium	0.236		0.0896	"	"	"	"	"	
Copper	12.1		8.96	"	"	"	"	"	
Lead	12.2		0.896	"	"	"	"	"	
Nickel	6.50		0.896	"	"	"	"	"	
Selenium	0.366		0.233	"	"	"	"	"	
Silver	0.102		0.0896	"	"	"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-B01@5'

2/27/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-01 (Soil)

Table 915 metals by EPA 6020B

Zinc	60.4		33.2	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
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Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L737847	02/27/2024	03/13/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-S01@3'
2/27/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-02 (Soil)

Boron (DTPA Sorbitol)

Boron	3.61		0.990	mg/L	10	B4B2907	02/29/2024	03/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	249		25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	
Residual Range Organics (C28-C40)	197		100	"	"	"	"	"	

Surrogate: o-Terphenyl	83.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2727	02/27/2024	02/27/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.07		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-S01@3'
2/27/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130				B4B27 27	02/27/2024	02/27/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	5.11	0.499	meq/L	10	[CALC]		02/28/2024	02/29/2024	
Magnesium	1.71	0.823	"	"	"	"	"	"	
Sodium	5.36	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.011	0.002	mg/kg	1	B4B2725		02/27/2024	02/27/2024	
2-Methylnaphthalene	0.018	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	0.006	0.005	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	0.044	0.020	"	"	"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-S01@3'

2/27/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4B2725	02/27/2024	02/27/2024	U
Naphthalene	0.004		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B4B2820	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	2.90		0.0100	SAR	1	B4B2808	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.50		0.00500	mmhos/cm	1	B4B2820	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.41		0.270	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

PWV-S01@3'

2/27/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402672-02 (Soil)

Table 915 metals by EPA 6020B

Barium	223		9.30	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Cadmium	0.424		0.0930	"	"	"	"	"	
Copper	34.3		9.30	"	"	"	"	"	
Lead	46.1		0.930	"	"	"	"	"	
Nickel	12.2		0.930	"	"	"	"	"	
Selenium	0.710		0.242	"	"	"	"	"	
Silver	0.415		0.0930	"	"	"	"	"	
Zinc	132		34.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L737847	02/27/2024	03/13/2024	
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

AST01@0.5'
2/27/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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DRO/ORO by EPA 8015D

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


Surrogate: o-Terphenyl	82.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2727	02/27/2024	02/27/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

AST01@0.5'
2/27/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %		70-130			B4B27 27	02/27/2024	02/27/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		02/28/2024	02/29/2024	
Magnesium	2.52	0.823	"	"	"		"	"	
Sodium	2.20	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2725		02/27/2024	02/27/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

AST01@0.5'
2/27/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-03 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	97.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	9.42			pH Units	1	B4B2820	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	1.86		0.0100	SAR	1	B4B2808	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.481		0.00500	mmhos/cm	1	B4B2820	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

AST01@0.5'
2/27/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.51	0.280	mg/kg	10	B4B2735	02/27/2024	03/10/2024
Barium	44.1	9.66	"	"	"	"	"
Cadmium	ND	0.0966	"	"	"	"	"
Copper	ND	9.66	"	"	"	"	"
Lead	5.65	0.966	"	"	"	"	"
Nickel	5.21	0.966	"	"	"	"	"
Selenium	ND	0.251	"	"	"	"	"
Silver	ND	0.0966	"	"	"	"	"
Zinc	ND	35.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737847	02/27/2024	03/13/2024
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-INLET@4'
2/27/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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DRO/ORO by EPA 8015D

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

Surrogate: <i>o</i> -Terphenyl	82.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2727	02/27/2024	02/27/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-INLET@4'
2/27/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.2 %		70-130			B4B27 27	02/27/2024	02/27/2024	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.529		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Ensolum
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-INLET@4'
2/27/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-04 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.2 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B4B2820	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	0.280		0.0100	SAR	1	B4B2808	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0996		0.00500	mmhos/cm	1	B4B2820	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-INLET@4'
2/27/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.02	0.273	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	30.3	9.41	"	"	"	"	"	
Cadmium	0.116	0.0941	"	"	"	"	"	
Copper	ND	9.41	"	"	"	"	"	
Lead	3.94	0.941	"	"	"	"	"	
Nickel	2.31	0.941	"	"	"	"	"	
Selenium	ND	0.245	"	"	"	"	"	
Silver	ND	0.0941	"	"	"	"	"	
Zinc	ND	34.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737847	02/27/2024	03/13/2024
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-OUTLET@4'
2/27/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.170		0.0998	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	85.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2727	02/27/2024	02/27/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Jeremy Espinoza
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-OUTLET@4'
2/27/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %		70-130			B4B27 27	02/27/2024	02/27/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.13		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.471		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-OUTLET@4'
2/27/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-05 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.38			pH Units	1	B4B2820	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	0.534		0.0100	SAR	1	B4B2808	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.230		0.00500	mmhos/cm	1	B4B2820	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

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 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

SEP01-OUTLET@4'
2/27/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.30		0.278	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	43.1		9.59	"	"	"	"	"	
Cadmium	ND		0.0959	"	"	"	"	"	
Copper	ND		9.59	"	"	"	"	"	
Lead	6.34		0.959	"	"	"	"	"	
Nickel	3.51		0.959	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	
Silver	ND		0.0959	"	"	"	"	"	
Zinc	ND		35.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737849	02/27/2024	03/13/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG01@3'
2/27/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-06 (Soil)

Boron (DTPA Sorbitol)

Boron	2.66		0.0996	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.88		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	2.47		0.823	"	"	"	"	"	
Sodium	35.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.59			pH Units	1	B4B2820	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	24.3		0.0100	SAR	1	B4B2808	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.86		0.00500	mmhos/cm	1	B4B2820	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.02		0.265	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	168		9.15	"	"	"	"	"	
Cadmium	0.124		0.0915	"	"	"	"	"	
Copper	10.5		9.15	"	"	"	"	"	

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG01@3'
2/27/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-06 (Soil)

Table 915 metals by EPA 6020B

Lead	11.9		0.915	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Nickel	7.44		0.915	"	"	"	"	"	
Selenium	0.508		0.238	"	"	"	"	"	
Silver	ND		0.0915	"	"	"	"	"	
Zinc	90.2		33.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737849	02/27/2024	03/13/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG01@6'
2/27/2024 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.869		0.100	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.18		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	1.94		0.823	"	"	"	"	"	
Sodium	22.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.51			pH Units	1	B4B2821	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	15.9		0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.47		0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.902		0.245	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	34.8		8.44	"	"	"	"	"	
Cadmium	ND		0.0844	"	"	"	"	"	
Copper	ND		8.44	"	"	"	"	"	

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG01@6'
2/27/2024 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-07 (Soil)

Table 915 metals by EPA 6020B

Lead	3.70		0.844	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Nickel	1.85		0.844	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0844	"	"	"	"	"	
Zinc	ND		31.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737849	02/27/2024	03/13/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

TB-BG01@0.5'
2/27/2024 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.196		0.100	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.68		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.78		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B4B2821	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	1.69		0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.432		0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.30		0.283	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	104		9.75	"	"	"	"	"	
Cadmium	0.160		0.0975	"	"	"	"	"	
Copper	ND		9.75	"	"	"	"	"	

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Jeremy Espinoza
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

TB-BG01@0.5'
2/27/2024 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-08 (Soil)

Table 915 metals by EPA 6020B

Lead	9.40		0.975	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Nickel	6.20		0.975	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.0975	"	"	"	"	"	
Zinc	147		36.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737849	02/27/2024	03/13/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL01@5'
2/27/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-09 (Soil)

Boron (DTPA Sorbitol)

Boron	2.82		0.101	mg/L	1	B4B2907	02/29/2024	03/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	26.4		25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2727	02/27/2024	02/27/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	0.0232		0.00200	"	"	"	"	"	
Ethylbenzene	0.00432		0.00200	"	"	"	"	"	
Toluene	0.00276		0.00200	"	"	"	"	"	
Xylenes, total	0.00222		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	108		5.00	"	25	"	"	02/28/2024	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	02/27/2024	
Surrogate: Toluene-d8	143 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL01@5'
 2/27/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402672-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.503		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	19.0		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.213		0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	
2-Methylnaphthalene	0.433		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.352		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	98.6 %		60-130			"	"	"	

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Jeremy Espinoza
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL01@5'
2/27/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-09 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	98.4 %		60-130			B4B27 25	02/27/2024	02/28/2024	
Surrogate: Pyrene-d10	99.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B4B2821	02/28/2024	02/29/2024	
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SAR by 20B Saturated Paste

SAR	30.8		0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.40		0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.03		0.245	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Barium	232		8.44	"	"	"	"	"	
Cadmium	0.141		0.0844	"	"	"	"	"	
Copper	8.82		8.44	"	"	"	"	"	
Lead	9.84		0.844	"	"	"	"	"	
Nickel	8.52		0.844	"	"	"	"	"	
Selenium	0.356		0.219	"	"	"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL01@5'

2/27/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402672-09 (Soil)

Table 915 metals by EPA 6020B

Silver	ND		0.0844	mg/kg	10	B4B2735	02/27/2024	03/10/2024	
Zinc	77.0		31.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L737849	02/27/2024	03/13/2024	
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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
Batch B4B2726 - EPA 3550B										
Blank (B4B2726-BLK1)										
					Prepared: 02/27/2024 Analyzed: 02/27/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.6	50-150			

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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 B4B2726 - EPA 3550B

LCS (B4B2726-BS1)

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

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

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 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2726 - EPA 3550B

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

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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 B4B2726 - EPA 3550B

Matrix Spike Dup (B4B2726-MSD1)	Source: Y402672-02		Prepared: 02/27/2024 Analyzed: 02/27/2024							
Diesel (C10-C28)	965	50.0	mg/kg	1000	249	71.6	70-130	0.666	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	197	86.1	70-130	0.862	35	
Surrogate: o-Terphenyl	49		"	49.8		98.3	50-150			

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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 B4B2727 - EPA 5030 (soil)

Blank (B4B2727-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2727 - EPA 5030 (soil)

LCS (B4B2727-BS1)

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2727 - EPA 5030 (soil)

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2727 - EPA 5030 (soil)

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

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4B2735 - EPA 3050B

Blank (B4B2735-BLK1)

Prepared: 02/27/2024 Analyzed: 03/10/2024

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

LCS (B4B2735-BS1)

Prepared: 02/27/2024 Analyzed: 03/10/2024

Arsenic	5.22	0.290	mg/kg	5.00		104	80-120			
Barium	531	10.0	"	500		106	80-120			
Cadmium	5.56	0.100	"	5.00		111	80-120			
Copper	56.2	10.0	"	50.0		112	80-120			
Lead	4.69	1.00	"	5.00		93.8	80-120			
Nickel	5.33	1.00	"	5.00		107	80-120			
Selenium	10.0	0.260	"	9.50		105	80-120			
Silver	5.22	0.100	"	5.00		104	80-120			
Zinc	50.1	37.0	"	50.0		100	80-120			

Matrix Spike (B4B2735-MS1)

Source: Y402669-01

Prepared: 02/27/2024 Analyzed: 03/10/2024

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4B2735 - EPA 3050B

Matrix Spike (B4B2735-MS1)		Source: Y402669-01			Prepared: 02/27/2024 Analyzed: 03/10/2024					
Arsenic	8.91	0.255	mg/kg	4.39	4.60	98.1	75-125			
Barium	564	8.78	"	439	117	102	75-125			
Cadmium	5.03	0.0878	"	4.39	0.154	111	75-125			
Copper	52.9	8.78	"	43.9	8.08	102	75-125			
Lead	12.0	0.878	"	4.39	8.19	86.0	75-125			
Nickel	13.8	0.878	"	4.39	9.63	94.0	75-125			
Selenium	10.5	0.228	"	8.34	0.384	121	75-125			
Silver	4.50	0.0878	"	4.39	0.0435	102	75-125			
Zinc	102	32.5	"	43.9	48.8	122	75-125			
Matrix Spike Dup (B4B2735-MSD1)		Source: Y402669-01			Prepared: 02/27/2024 Analyzed: 03/10/2024					
Arsenic	9.72	0.281	mg/kg	4.84	4.60	106	75-125	8.63	20	
Barium	631	9.69	"	484	117	106	75-125	11.1	20	
Cadmium	5.59	0.0969	"	4.84	0.154	112	75-125	10.5	20	
Copper	58.8	9.69	"	48.4	8.08	105	75-125	10.7	20	
Lead	12.9	0.969	"	4.84	8.19	97.2	75-125	7.50	20	
Nickel	14.6	0.969	"	4.84	9.63	102	75-125	5.78	20	
Selenium	11.6	0.252	"	9.20	0.384	122	75-125	10.6	20	
Silver	5.03	0.0969	"	4.84	0.0435	103	75-125	11.1	20	
Zinc	110	35.8	"	48.4	48.8	126	75-125	7.02	20	QM-07

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2725 - EPA 3580

Blank (B4B2725-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4B2725-BS1)

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

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

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2725 - EPA 3580

LCS (B4B2725-BS1)

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

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

Matrix Spike (B4B2725-MS1)

Source: Y402671-01

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

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

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2725 - EPA 3580

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

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

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2725 - EPA 3580

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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4B2808 - Saturated Paste Metals

Blank (B4B2808-BLK1)

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

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

Duplicate (B4B2808-DUP1)

Source: Y402671-01

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

SAR	ND	0.0100	SAR		0.631					200
Calcium PPM	35.2	10.0	mg/L		37.6			6.60		50
Magnesium PPM	7.83	10.0	"		7.96			1.65		50
Sodium PPM	16.9	10.0	"		16.3			3.25		50

Batch B4B2809 - Saturated Paste Metals

Blank (B4B2809-BLK1)

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

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

Duplicate (B4B2809-DUP1)

Source: Y402672-07

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

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

Batch B4B2907 - DTPA Sorbitol Preparation

Blank (B4B2907-BLK1)

Prepared: 02/29/2024 Analyzed: 03/01/2024

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B2907 - DTPA Sorbitol Preparation										
Blank (B4B2907-BLK1)					Prepared: 02/29/2024 Analyzed: 03/01/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B2907-DUP1)					Source: Y402671-04 Prepared: 02/29/2024 Analyzed: 03/01/2024					
Boron	0.180	0.0991	mg/L		0.192			6.44	50	

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4B2820 - Saturated Paste pH/EC

Blank (B4B2820-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B2820-DUP1)

Source: Y402671-01

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

Specific Conductance (EC)	0.377	0.00500	mmhos/cm	0.376	0.478	25
pH	8.28		pH Units	8.30	0.241	25

Batch B4B2821 - Saturated Paste pH/EC

Blank (B4B2821-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B2821-DUP1)

Source: Y402672-07

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

Specific Conductance (EC)	2.45	0.00500	mmhos/cm	2.47	0.793	25
pH	8.43		pH Units	8.51	0.945	25

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 L737849 -										
DUP (L 98888-DUP)		Source: Y402672-07			Prepared: Analyzed: 03/13/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98888-MS)		Source: Y402672-07			Prepared: Analyzed: 03/13/2024					
Chromium, Hexavalent	26.5	2.5	mg/Kg	38.8	< 0.244	68	75-125			*
LCS (LCS)		Prepared: Analyzed: 03/13/2024								
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
LRB (LRB)		Prepared: Analyzed: 03/13/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 L737847 -										
DUP (L 98872-DUP)		Source: 98872			Prepared: Analyzed: 03/13/2024					
Chromium, Hexavalent	ND	0.504	mg/Kg		<0.504		-	0.7	20	
MS (L 98872-MS)		Source: 98872			Prepared: Analyzed: 03/13/2024					
Chromium, Hexavalent	32.4	2.5	mg/Kg	39.8	< 0.244	81	75-125			
LCS (LCS)		Prepared: Analyzed: 03/13/2024								
Chromium, Hexavalent	6.24	0.5	mg/Kg	8		78	75-125			
LRB (LRB)		Prepared: Analyzed: 03/13/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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April 11, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. March 27, 2024. This project is associated with Origins project number Y403758-01.

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: 09A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y403758-01	Water	March 27, 2024 14:30	03/27/2024 15:50

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Sample Receipt Checklist

Origins Work Order: 4403758 Client: Ensolum
 Client Project ID: GNB W 31-3

Checklist Completed by: JJE/140 Shipped Via: H10
 Date/time completed: 3/27/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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


Cooler Number/Temperature: 1 / 10 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) JJE Date/Time Reviewed 3/27/24

Origins Laboratory, Inc.


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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

GW01

3/27/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403758-01 (Water)

Anions by IC 300.0

Chloride	175	31.2	mg/L	125	B4C2803	DLT	03/28/2024	04/05/2024	
Sulfate	508	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2738	JSM	03/27/2024	03/27/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	11.2	2.00	"	"	"	JSM	"	"	
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	143 %	70-130			"	"		"	S-GC
Surrogate: Toluene-d8	111 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"		"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1190	5.00	mg/L	1	B4C2757	KRM	03/27/2024	03/28/2024	
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Origins Laboratory, Inc.



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

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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4C2738 - EPA 5030B (Water)

Blank (B4C2738-BLK1)

Prepared: 03/27/2024 Analyzed: 03/27/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	90		"	62.5	144		70-130			S-GC
Surrogate: Toluene-d8	66		"	62.5	106		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4C2738 - EPA 5030B (Water)

LCS (B4C2738-BS1)

Prepared: 03/27/2024 Analyzed: 03/27/2024

1,2,4-Trimethylbenzene	52.5	2.00	ug/L	50.0		105	70-130			
1,3,5-Trimethylbenzene	52.3	2.00	"	50.0		105	70-130			
Benzene	53.6	1.00	"	50.0		107	70-130			
Ethylbenzene	56.4	1.00	"	50.0		113	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
Naphthalene	51.8	2.00	"	50.0		104	70-130			
o-Xylene	52.3	1.00	"	50.0		105	70-130			
Toluene	52.6	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	94		"	62.5		151	70-130			S-GC
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4C2738 - EPA 5030B (Water)

Matrix Spike (B4C2738-MS1)	Source: Y403690-01			Prepared: 03/27/2024 Analyzed: 03/27/2024						
1,2,4-Trimethylbenzene	60.2	2.00	ug/L	50.0	ND	120	70-130			
1,3,5-Trimethylbenzene	62.3	2.00	"	50.0	ND	125	70-130			
Benzene	57.6	1.00	"	50.0	ND	115	70-130			
Ethylbenzene	65.8	1.00	"	50.0	ND	132	70-130			QM-07
m,p-Xylene	129	2.00	"	100	ND	129	70-130			
Naphthalene	47.5	2.00	"	50.0	ND	95.0	70-130			
o-Xylene	59.3	1.00	"	50.0	ND	119	70-130			
Toluene	59.4	1.00	"	50.0	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	90		"	62.5		144	70-130			S-GC
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4C2738 - EPA 5030B (Water)

Matrix Spike Dup (B4C2738-MSD1)	Source: Y403690-01			Prepared: 03/27/2024 Analyzed: 03/27/2024						
1,2,4-Trimethylbenzene	61.0	2.00	ug/L	50.0	ND	122	70-130	1.37	20	
1,3,5-Trimethylbenzene	61.5	2.00	"	50.0	ND	123	70-130	1.37	20	
Benzene	58.6	1.00	"	50.0	ND	117	70-130	1.75	20	
Ethylbenzene	65.8	1.00	"	50.0	ND	132	70-130	0.0304	20	QM-07
m,p-Xylene	130	2.00	"	100	ND	130	70-130	1.07	20	
Naphthalene	46.1	2.00	"	50.0	ND	92.3	70-130	2.97	20	
o-Xylene	59.2	1.00	"	50.0	ND	118	70-130	0.202	20	
Toluene	59.8	1.00	"	50.0	ND	120	70-130	0.738	20	
Surrogate: 1,2-Dichloroethane-d4	91		"	62.5		146	70-130			S-GC
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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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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 B4C2757 - NO PREP

Blank (B4C2757-BLK1)

Prepared: 03/27/2024 Analyzed: 03/28/2024

Total Dissolved Solids ND 5.00 mg/L

LCS (B4C2757-BS1)

Prepared: 03/27/2024 Analyzed: 03/28/2024

Total Dissolved Solids 1070 5.00 mg/L 1040 103 90-110

Duplicate (B4C2757-DUP1)

Source: Y403758-01

Prepared: 03/27/2024 Analyzed: 03/28/2024

Total Dissolved Solids 1130 5.00 mg/L 1190 4.99 10

Batch B4C2803 - Filter .45um non acidified

Blank (B4C2803-BLK1)

Prepared: 03/28/2024 Analyzed: 04/05/2024

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B4C2803-BS1)

Prepared: 03/28/2024 Analyzed: 04/05/2024

Chloride 3.68 0.250 mg/L 4.00 92.0 90-110

Sulfate 3.95 0.250 " 4.00 98.6 90-110

Matrix Spike (B4C2803-MS1)

Source: Y403725-13

Prepared: 03/28/2024 Analyzed: 04/05/2024

Chloride 577 mg/L 500 111 93.4 90-110

Sulfate 623 " 500 192 86.1 90-110 QM-07

Matrix Spike Dup (B4C2803-MSD1)

Source: Y403725-13

Prepared: 03/28/2024 Analyzed: 04/05/2024

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4C2803 - Filter .45um non acidified

Matrix Spike Dup (B4C2803-MSD1)		Source: Y403725-13			Prepared: 03/28/2024 Analyzed: 04/05/2024					
Chloride	578		mg/L	500	111	93.5	90-110	0.106	5	
Sulfate	624		"	500	192	86.4	90-110	0.249	5	QM-07

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

Jeremy Espinoza
Project Number: 09A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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April 16, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404168-01.

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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y404168-01	Soil	April 5, 2024 9:10	04/05/2024 15:41
B02@6'	Y404168-02	Soil	April 5, 2024 9:20	04/05/2024 15:41
B03@6'	Y404168-03	Soil	April 5, 2024 9:30	04/05/2024 15:41
B04@6'	Y404168-04	Soil	April 5, 2024 9:40	04/05/2024 15:41
B05@6'	Y404168-05	Soil	April 5, 2024 9:50	04/05/2024 15:41
B06@6'	Y404168-06	Soil	April 5, 2024 10:00	04/05/2024 15:41
B07@6'	Y404168-07	Soil	April 5, 2024 10:10	04/05/2024 15:41
E01@3'	Y404168-08	Soil	April 5, 2024 10:20	04/05/2024 15:41
E02@3'	Y404168-09	Soil	April 5, 2024 10:30	04/05/2024 15:41
E03@3'	Y404168-10	Soil	April 5, 2024 10:40	04/05/2024 15:41
E04@3'	Y404168-11	Soil	April 5, 2024 10:50	04/05/2024 15:41
E05@3'	Y404168-12	Soil	April 5, 2024 11:00	04/05/2024 15:41
S01@3'	Y404168-14	Soil	April 5, 2024 11:20	04/05/2024 15:41
S02@3'	Y404168-15	Soil	April 5, 2024 11:30	04/05/2024 15:41

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S03@3'	Y404168-16	Soil	April 5, 2024 11:40	04/05/2024 15:41
S04@3'	Y404168-17	Soil	April 5, 2024 11:50	04/05/2024 15:41
W01@3'	Y404168-18	Soil	April 5, 2024 12:00	04/05/2024 15:41
W02@3'	Y404168-19	Soil	April 5, 2024 12:10	04/05/2024 15:41
W03@3'	Y404168-20	Soil	April 5, 2024 12:20	04/05/2024 15:41

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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



4104113

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page 1 of 2

Client: Ensolum
 Address: _____
 Telephone Number: _____
 Email Address: _____
 Project Manager: Jeremy Espinoza
 Project Name: GNB W 31-3,4,5J,6 Facility
 Project Number: O9A1417648
 Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis					Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX	TMBs	TPH	
B01-6'	4/5/24	9:10	3	X			X		X	X	X	X	X	1
B02-6'		9:20	3	X			X		X	X	X	X	X	2
B03-6'		9:30	3	X			X		X	X	X	X	X	3
B04-6'		9:40	3	X			X		X	X	X	X	X	4
B05-6'		9:50	3	X			X		X	X	X	X	X	5
B06-6'		10:00	3	X			X		X	X	X	X	X	6
B07-6'		10:10	3	X			X		X	X	X	X	X	7
B01-3'		10:20	3	X			X		X	X	X	X	X	8
B02-3'		10:30	3	X			X		X	X	X	X	X	9
B03-3'		10:40	3	X			X		X	X	X	X	X	10

Requisitioned By:

Date: 4/5/24

Time: 1541

Received By:

Date: 4/5/24

Time: 1541

Temp Received: 10 Date Results Needed


Origins Laboratory, Inc.

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility



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page 2 of 2

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

Project Manager: Jeremy Espinoza
 Project Name: GNB W 31-3,4,5J,6 Facility
 Project Number: O9A1417648
 Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis			T turnaround Time:												
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		BTEX	TMBS	TPH	PAHs	Boron, PH, SAA	915 Metals excluding GVI						
E04-3'	4/5/24	1050	3	X					X	X	X	X	X											
E05-3'		1100	3	X					X	X	X	X	X											
E06-3'		1100	3	X					X	X	X	X	X											
S01-3'		1120	3	X					X	X	X	X	X											
S02-3'		1130	3	X					X	X	X	X	X											
S03-3'		1140	3	X					X	X	X	X	X											
S04-3'		1150	3	X					X	X	X	X	X											
W01-3'		1200	3	X					X	X	X	X	X											
W02-3'		1210	3	X					X	X	X	X	X											
W03-3'		1220	3	X					X	X	X	X	X											
Relinquished By: 	Date: 4/5/24	Time: 841	Received By: 	Date: 4/5/24	Time: 1544	T turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard																		

Temp Received: 10 Date Results Needed: _____

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 44041109

Client: Ensolum

Client Project ID: GNB W 31-3,4,5J,6

Checklist Completed by: JAM/EMS

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

Date/time completed: 4/5/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 10 °C °C °C (Describe) _____ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}		/		SO
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	/		/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	/		/	
Were all samples received intact ^{(1)?}	/			
Was adequate sample volume provided ^{(1)?}	/			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}	/	/		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	/			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	/			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	/			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JAM Date/Time Reviewed 4/5/12

Origins Laboratory, Inc.

J. Bynon

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B01@6'

4/5/2024 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B4D0805	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	89.0 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B01@6'

4/5/2024 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	0.784	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B01@6'

4/5/2024 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-01 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	102 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	97.3 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	112 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	7.78		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.53	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.453	0.249	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	18.2	8.59	"	"	"	HJD	"	"	
Cadmium	ND	0.0859	"	"	"	HJD	"	"	
Copper	ND	8.59	"	"	"	HJD	"	"	
Lead	1.30	0.859	"	"	"	HJD	"	"	
Nickel	0.908	0.859	"	"	"	HJD	"	"	
Selenium	ND	0.223	"	"	"	HJD	"	"	
Silver	ND	0.0859	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

B01@6'

4/5/2024 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-01 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	31.8	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B02@6'

4/5/2024 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B4D0805	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	88.2 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B02@6'

4/5/2024 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.605	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.08	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B02@6'

4/5/2024 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	104 %	60-130			"		"	"	
Surrogate: Pyrene-d10	98.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	112 %	60-130			"		"	"	

pH in Soil by 9045D

pH	7.99		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.57	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.517	0.245	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	9.14	8.45	"	"	"	HJD	"	"	
Cadmium	ND	0.0845	"	"	"	HJD	"	"	
Copper	ND	8.45	"	"	"	HJD	"	"	
Lead	1.56	0.845	"	"	"	HJD	"	"	
Nickel	ND	0.845	"	"	"	HJD	"	"	
Selenium	ND	0.220	"	"	"	HJD	"	"	
Silver	ND	0.0845	"	"	"	HJD	"	"	
Zinc	ND	31.3	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B03@6'

4/5/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4D0805	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.0 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B03@6'

4/5/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.23	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.79	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B03@6'

4/5/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	96.2 %	60-130			"		"	"	
Surrogate: Pyrene-d10	103 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	110 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.19		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.84	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.450	0.280	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	ND	9.67	"	"	"	HJD	"	"	
Cadmium	ND	0.0967	"	"	"	HJD	"	"	
Copper	ND	9.67	"	"	"	HJD	"	"	
Lead	1.38	0.967	"	"	"	HJD	"	"	
Nickel	ND	0.967	"	"	"	HJD	"	"	
Selenium	ND	0.251	"	"	"	HJD	"	"	
Silver	ND	0.0967	"	"	"	HJD	"	"	
Zinc	ND	35.8	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B04@6'

4/5/2024 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.7 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B04@6'

4/5/2024 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.10	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.61	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B04@6'

4/5/2024 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-04 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	101 %	60-130			"		"	"	
Surrogate: Pyrene-d10	96.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	115 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.31		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.74	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.603	0.267	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	19.0	9.19	"	"	"	HJD	"	"	
Cadmium	ND	0.0919	"	"	"	HJD	"	"	
Copper	ND	9.19	"	"	"	HJD	"	"	
Lead	1.50	0.919	"	"	"	HJD	"	"	
Nickel	0.941	0.919	"	"	"	HJD	"	"	
Selenium	ND	0.239	"	"	"	HJD	"	"	
Silver	ND	0.0919	"	"	"	HJD	"	"	
Zinc	ND	34.0	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B05@6'

4/5/2024 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	98.8 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B05@6'

4/5/2024 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.749	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.20	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B05@6'

4/5/2024 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-05 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	103 %	60-130			"		"	"	
Surrogate: Pyrene-d10	90.8 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	109 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.04		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.58	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.606	0.289	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	ND	9.95	"	"	"	HJD	"	"	
Cadmium	ND	0.0995	"	"	"	HJD	"	"	
Copper	ND	9.95	"	"	"	HJD	"	"	
Lead	1.56	0.995	"	"	"	HJD	"	"	
Nickel	1.68	0.995	"	"	"	HJD	"	"	
Selenium	ND	0.259	"	"	"	HJD	"	"	
Silver	ND	0.0995	"	"	"	HJD	"	"	
Zinc	ND	36.8	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B06@6'

4/5/2024 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	83.4 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B06@6'

4/5/2024 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.31	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.86	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B06@6'

4/5/2024 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-06 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	101 %	60-130			"		"	"	
Surrogate: Pyrene-d10	96.2 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	107 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.26		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.85	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.449	0.267	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	ND	9.20	"	"	"	HJD	"	"	
Cadmium	ND	0.0920	"	"	"	HJD	"	"	
Copper	ND	9.20	"	"	"	HJD	"	"	
Lead	1.47	0.920	"	"	"	HJD	"	"	
Nickel	ND	0.920	"	"	"	HJD	"	"	
Selenium	ND	0.239	"	"	"	HJD	"	"	
Silver	ND	0.0920	"	"	"	HJD	"	"	
Zinc	ND	34.0	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B07@6'

4/5/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.1 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B07@6'

4/5/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.528	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.10	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B07@6'

4/5/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-07 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	98.9 %	60-130			"		"	"	
Surrogate: Pyrene-d10	94.2 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	110 %	60-130			"		"	"	

pH in Soil by 9045D

pH	7.98		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.70	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.563	0.275	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	ND	9.48	"	"	"	HJD	"	"	
Cadmium	ND	0.0948	"	"	"	HJD	"	"	
Copper	ND	9.48	"	"	"	HJD	"	"	
Lead	1.17	0.948	"	"	"	HJD	"	"	
Nickel	ND	0.948	"	"	"	HJD	"	"	
Selenium	ND	0.247	"	"	"	HJD	"	"	
Silver	ND	0.0948	"	"	"	HJD	"	"	
Zinc	ND	35.1	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E01@3'

4/5/2024 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.108	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	87.7 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	2.90	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	89.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E01@3'

4/5/2024 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.985	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.70	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E01@3'

4/5/2024 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-08 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	100 %	60-130			"		"	"	
Surrogate: Pyrene-d10	97.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	118 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.34		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.98	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.968	0.253	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	16.3	8.74	"	"	"	HJD	"	"	
Cadmium	ND	0.0874	"	"	"	HJD	"	"	
Copper	ND	8.74	"	"	"	HJD	"	"	
Lead	3.16	0.874	"	"	"	HJD	"	"	
Nickel	1.52	0.874	"	"	"	HJD	"	"	
Selenium	ND	0.227	"	"	"	HJD	"	"	
Silver	ND	0.0874	"	"	"	HJD	"	"	
Zinc	ND	32.3	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E02@3'

4/5/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	91.6 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	89.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E02@3'

4/5/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	0.892	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E02@3'

4/5/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-09 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
Surrogate: Fluorene-d10	104 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	101 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	92.4 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	7.96		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.57	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.57	0.254	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	9.60	8.77	"	"	"	HJD	"	"	
Cadmium	ND	0.0877	"	"	"	HJD	"	"	
Copper	ND	8.77	"	"	"	HJD	"	"	
Lead	4.27	0.877	"	"	"	HJD	"	"	
Nickel	1.06	0.877	"	"	"	HJD	"	"	
Selenium	ND	0.228	"	"	"	HJD	"	"	
Silver	ND	0.0877	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

E02@3'

4/5/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-09 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	32.5	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
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Origins Laboratory, Inc.



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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E03@3'

4/5/2024 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.4 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E03@3'

4/5/2024 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	0.809	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E03@3'

4/5/2024 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-10 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
Surrogate: Fluorene-d10	103 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	99.8 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	92.4 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	7.80		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.59	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.653	0.276	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	ND	9.53	"	"	"	HJD	"	"	
Cadmium	ND	0.0953	"	"	"	HJD	"	"	
Copper	ND	9.53	"	"	"	HJD	"	"	
Lead	1.69	0.953	"	"	"	HJD	"	"	
Nickel	ND	0.953	"	"	"	HJD	"	"	
Selenium	ND	0.248	"	"	"	HJD	"	"	
Silver	ND	0.0953	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

E03@3'

4/5/2024 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-10 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	35.3	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E04@3'

4/5/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.6 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E04@3'

4/5/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-11 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.633	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.22	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E04@3'

4/5/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-11 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	101 %	60-130			"		"	"	
Surrogate: Pyrene-d10	98.5 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	111 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.11		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.77	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.640	0.267	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	11.2	9.21	"	"	"	HJD	"	"	
Cadmium	ND	0.0921	"	"	"	HJD	"	"	
Copper	ND	9.21	"	"	"	HJD	"	"	
Lead	1.10	0.921	"	"	"	HJD	"	"	
Nickel	ND	0.921	"	"	"	HJD	"	"	
Selenium	ND	0.239	"	"	"	HJD	"	"	
Silver	ND	0.0921	"	"	"	HJD	"	"	
Zinc	ND	34.1	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E05@3'
4/5/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.00	mg/L	10	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	87.1 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E05@3'

4/5/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-12 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.54	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	9.55	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

E05@3'

4/5/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-12 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	102 %	60-130			"		"	"	
Surrogate: Pyrene-d10	96.4 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	111 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.88		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	8.80	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.54	0.248	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	138	8.55	"	"	"	HJD	"	"	
Cadmium	0.123	0.0855	"	"	"	HJD	"	"	
Copper	8.69	8.55	"	"	"	HJD	"	"	
Lead	8.37	0.855	"	"	"	HJD	"	"	
Nickel	7.96	0.855	"	"	"	HJD	"	"	
Selenium	ND	0.222	"	"	"	HJD	"	"	
Silver	ND	0.0855	"	"	"	HJD	"	"	
Zinc	42.6	31.6	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S01@3'

4/5/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	100 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S01@3'

4/5/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-14 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.55	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	2.65	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S01@3'

4/5/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-14 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	103 %	60-130			"		"	"	
Surrogate: Pyrene-d10	95.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	110 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.43		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	2.45	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.07	0.248	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	10.2	8.56	"	"	"	HJD	"	"	
Cadmium	ND	0.0856	"	"	"	HJD	"	"	
Copper	ND	8.56	"	"	"	HJD	"	"	
Lead	3.73	0.856	"	"	"	HJD	"	"	
Nickel	2.04	0.856	"	"	"	HJD	"	"	
Selenium	ND	0.222	"	"	"	HJD	"	"	
Silver	ND	0.0856	"	"	"	HJD	"	"	
Zinc	ND	31.7	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S02@3'

4/5/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-15 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	102 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S02@3'

4/5/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-15 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.653	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.01	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S02@3'

4/5/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-15 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	104 %	60-130			"		"	"	
Surrogate: Pyrene-d10	101 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	119 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.03		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	1.44	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.998	0.273	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	14.5	9.43	"	"	"	HJD	"	"	
Cadmium	ND	0.0943	"	"	"	HJD	"	"	
Copper	ND	9.43	"	"	"	HJD	"	"	
Lead	2.65	0.943	"	"	"	HJD	"	"	
Nickel	1.18	0.943	"	"	"	HJD	"	"	
Selenium	ND	0.245	"	"	"	HJD	"	"	
Silver	ND	0.0943	"	"	"	HJD	"	"	
Zinc	ND	34.9	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S03@3'

4/5/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-16 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	97.2 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S03@3'

4/5/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-16 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.96	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S03@3'

4/5/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-16 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	104 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	98.2 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	116 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	7.77		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	3.32	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.915	0.275	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	17.3	9.49	"	"	"	HJD	"	"	
Cadmium	ND	0.0949	"	"	"	HJD	"	"	
Copper	ND	9.49	"	"	"	HJD	"	"	
Lead	3.25	0.949	"	"	"	HJD	"	"	
Nickel	1.11	0.949	"	"	"	HJD	"	"	
Selenium	ND	0.247	"	"	"	HJD	"	"	
Silver	ND	0.0949	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

S03@3'

4/5/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-16 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	35.1	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S04@3'

4/5/2024 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-17 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	94.3 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S04@3'

4/5/2024 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-17 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.515	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.94	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

S04@3'

4/5/2024 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-17 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	99.6 %	60-130			"		"	"	
Surrogate: Pyrene-d10	95.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	116 %	60-130			"		"	"	

pH in Soil by 9045D

pH	7.92		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	3.07	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.10	0.273	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	16.5	9.40	"	"	"	HJD	"	"	
Cadmium	ND	0.0940	"	"	"	HJD	"	"	
Copper	ND	9.40	"	"	"	HJD	"	"	
Lead	3.51	0.940	"	"	"	HJD	"	"	
Nickel	1.13	0.940	"	"	"	HJD	"	"	
Selenium	ND	0.244	"	"	"	HJD	"	"	
Silver	ND	0.0940	"	"	"	HJD	"	"	
Zinc	ND	34.8	"	"	"	HJD	"	"	

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W01@3'

4/5/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-18 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W01@3'

4/5/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-18 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.35	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	2.23	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W01@3'

4/5/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-18 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	101 %	60-130			"		"	"	
Surrogate: Pyrene-d10	94.7 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	113 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.15		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	2.18	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.766	0.284	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	14.3	9.78	"	"	"	HJD	"	"	
Cadmium	ND	0.0978	"	"	"	HJD	"	"	
Copper	ND	9.78	"	"	"	HJD	"	"	
Lead	3.23	0.978	"	"	"	HJD	"	"	
Nickel	1.24	0.978	"	"	"	HJD	"	"	
Selenium	ND	0.254	"	"	"	HJD	"	"	
Silver	ND	0.0978	"	"	"	HJD	"	"	
Zinc	ND	36.2	"	"	"	HJD	"	"	

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W02@3'

4/5/2024 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-19 (Soil)

Boron (DTPA Sorbitol)

Boron	2.35	1.00	mg/L	10	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	96.3 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W02@3'

4/5/2024 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-19 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.92	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	1.17	0.823	"	"	"	ACC	"	"	
Sodium	10.8	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W02@3'

4/5/2024 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-19 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	102 %	60-130			"		"	"	
Surrogate: Pyrene-d10	91.2 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	112 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.49		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	8.67	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.37	0.276	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	122	9.52	"	"	"	HJD	"	"	
Cadmium	0.229	0.0952	"	"	"	HJD	"	"	
Copper	21.7	9.52	"	"	"	HJD	"	"	
Lead	19.3	0.952	"	"	"	HJD	"	"	
Nickel	9.42	0.952	"	"	"	HJD	"	"	
Selenium	0.434	0.248	"	"	"	HJD	"	"	
Silver	0.163	0.0952	"	"	"	HJD	"	"	
Zinc	65.2	35.2	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W03@3'

4/5/2024 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404168-20 (Soil)

Boron (DTPA Sorbitol)

Boron	1.23	0.100	mg/L	1	B4D0806	ACC	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0523	ADM	04/05/2024	04/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 84.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0525	HK	04/05/2024	04/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	5.91	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.7 % 70-130 " " "
 Surrogate: Toluene-d8 87.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 122 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W03@3'

4/5/2024 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-20 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.499	meq/L	10	[CALC]	ACC	04/06/2024	04/08/2024	
Magnesium	1.32	0.823	"	"	"	ACC	"	"	
Sodium	14.6	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4D0531	agile	04/05/2024	04/06/2024	
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

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Jeremy Espinoza
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

W03@3'

4/5/2024 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404168-20 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	102 %	60-130			B4D05 31		04/05/2024	04/06/2024	
Surrogate: Anthracene-d10	107 %	60-130			"		"	"	
Surrogate: Pyrene-d10	91.6 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	115 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.53		pH Units	1	B4D0613	ACN	04/06/2024	04/07/2024	
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SAR by 20B Saturated Paste

SAR	12.2	0.0100	SAR	1	B4D0603	ACC	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.23	0.256	mg/kg	10	B4D0527	HJD	04/05/2024	04/06/2024	
Barium	155	8.84	"	"	"	HJD	"	"	
Cadmium	0.277	0.0884	"	"	"	HJD	"	"	
Copper	23.3	8.84	"	"	"	HJD	"	"	
Lead	18.8	0.884	"	"	"	HJD	"	"	
Nickel	11.3	0.884	"	"	"	HJD	"	"	
Selenium	0.532	0.230	"	"	"	HJD	"	"	
Silver	0.149	0.0884	"	"	"	HJD	"	"	
Zinc	79.7	32.7	"	"	"	HJD	"	"	

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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
Batch B4D0523 - EPA 3550B										
Blank (B4D0523-BLK1)										
					Prepared: 04/05/2024 Analyzed: 04/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.5	50-150			

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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 B4D0523 - EPA 3550B

LCS (B4D0523-BS1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

Diesel (C10-C28)	870	50.0	mg/kg	1000		87.0	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000		99.2	70-130			
Surrogate: o-Terphenyl	60		"	49.8		121	50-150			

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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 B4D0523 - EPA 3550B

Matrix Spike (B4D0523-MS1)	Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/06/2024						
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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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 B4D0523 - EPA 3550B

Matrix Spike Dup (B4D0523-MSD1)	Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/06/2024						
Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130	4.45	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	5.59	35	
Surrogate: o-Terphenyl	46		"	49.8		93.3	50-150			

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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 B4D0525 - EPA 5030 (soil)

Blank (B4D0525-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0525 - EPA 5030 (soil)

LCS (B4D0525-BS1)

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

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0900	0.00200	"	0.100		90.0	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0895	0.00200	"	0.100		89.5	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	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 B4D0525 - EPA 5030 (soil)

Matrix Spike (B4D0525-MS1)	Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.000840	100	70-130			
Toluene	0.0918	0.00200	"	0.100	ND	91.8	70-130			
o-Xylene	0.0938	0.00200	"	0.100	ND	93.8	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0525 - EPA 5030 (soil)

Matrix Spike Dup (B4D0525-MSD1)	Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	2.38	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.84	20	
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	0.413	20	
Ethylbenzene	0.0953	0.00200	"	0.100	ND	95.3	70-130	1.73	20	
Naphthalene	0.0985	0.00380	"	0.100	0.000840	97.6	70-130	2.51	20	
Toluene	0.0885	0.00200	"	0.100	ND	88.5	70-130	3.64	20	
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130	2.50	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130	1.41	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0527 - EPA 3050B

Blank (B4D0527-BLK1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

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

LCS (B4D0527-BS1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

Arsenic	5.14	0.290	mg/kg	5.00		103	80-120			
Barium	508	10.0	"	500		102	80-120			
Cadmium	5.31	0.100	"	5.00		106	80-120			
Copper	55.2	10.0	"	50.0		110	80-120			
Lead	5.22	1.00	"	5.00		104	80-120			
Nickel	5.41	1.00	"	5.00		108	80-120			
Selenium	9.60	0.260	"	9.50		101	80-120			
Silver	5.29	0.100	"	5.00		106	80-120			
Zinc	50.3	37.0	"	50.0		101	80-120			

Matrix Spike (B4D0527-MS1)

Source: Y404168-12

Prepared: 04/05/2024 Analyzed: 04/06/2024

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0527 - EPA 3050B

Matrix Spike (B4D0527-MS1)		Source: Y404168-12			Prepared: 04/05/2024 Analyzed: 04/06/2024					
Arsenic	6.87	0.263	mg/kg	4.53	2.54	95.4	75-125			
Barium	600	9.07	"	453	138	102	75-125			
Cadmium	5.05	0.0907	"	4.53	0.123	109	75-125			
Copper	60.0	9.07	"	45.3	8.69	113	75-125			
Lead	13.8	0.907	"	4.53	8.37	120	75-125			
Nickel	12.7	0.907	"	4.53	7.96	104	75-125			
Selenium	9.43	0.236	"	8.61	0.204	107	75-125			
Silver	4.89	0.0907	"	4.53	0.0367	107	75-125			
Zinc	90.7	33.6	"	45.3	42.6	106	75-125			
Matrix Spike Dup (B4D0527-MSD1)		Source: Y404168-12			Prepared: 04/05/2024 Analyzed: 04/06/2024					
Arsenic	6.10	0.248	mg/kg	4.27	2.54	83.3	75-125	11.8	20	
Barium	563	8.54	"	427	138	99.6	75-125	6.21	20	
Cadmium	4.68	0.0854	"	4.27	0.123	107	75-125	7.57	20	
Copper	55.0	8.54	"	42.7	8.69	108	75-125	8.71	20	
Lead	12.9	0.854	"	4.27	8.37	107	75-125	6.63	20	
Nickel	11.4	0.854	"	4.27	7.96	81.1	75-125	10.4	20	
Selenium	8.22	0.222	"	8.11	0.204	98.8	75-125	13.7	20	
Silver	4.43	0.0854	"	4.27	0.0367	103	75-125	9.80	20	
Zinc	86.6	31.6	"	42.7	42.6	103	75-125	4.57	20	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0531 - EPA 3580

Blank (B4D0531-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		97.5	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		115	60-130			

LCS (B4D0531-BS1)

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

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.4	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.7	70-130			
Acenaphthene	0.174	0.020	"	0.200		87.0	70-130			
Anthracene	0.189	0.020	"	0.200		94.7	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0531 - EPA 3580

LCS (B4D0531-BS1)

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

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		91.9	70-130			
Benzo (a) pyrene	0.222	0.020	"	0.200		111	70-130			
Benzo (b) fluoranthene	0.217	0.020	"	0.200		109	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		99.9	70-130			
Benzo (k) fluoranthene	0.192	0.020	"	0.200		96.0	70-130			
Chrysene	0.197	0.020	"	0.200		98.6	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130			
Fluoranthene	0.175	0.020	"	0.200		87.7	70-130			
Fluorene	0.178	0.020	"	0.200		88.9	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200		109	70-130			
Naphthalene	0.179	0.002	"	0.200		89.3	70-130			
Phenanthrene	0.186	0.020	"	0.200		93.0	70-130			
Pyrene	0.179	0.020	"	0.200		89.7	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		95.8	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

Matrix Spike (B4D0531-MS1)

Source: Y404168-01

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

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	0.0004	100	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200	0.0008	100	70-130			
Acenaphthene	0.177	0.020	"	0.200	0.001	87.9	70-130			
Anthracene	0.184	0.020	"	0.200	0.003	90.8	70-130			
Benzo (a) anthracene	0.190	0.005	"	0.200	0.002	93.7	70-130			
Benzo (a) pyrene	0.222	0.020	"	0.200	0.003	109	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.002	103	70-130			
Benzo (g,h,i) perylene	0.224	0.020	"	0.200	0.003	110	70-130			

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0531 - EPA 3580

Matrix Spike (B4D0531-MS1)		Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/05/2024					
Benzo (k) fluoranthene	0.191	0.020	mg/kg	0.200	0.003	93.9	70-130			
Chrysene	0.190	0.020	"	0.200	0.001	94.2	70-130			
Dibenz (a,h) anthracene	0.209	0.020	"	0.200	0.004	103	70-130			
Fluoranthene	0.174	0.020	"	0.200	0.002	85.7	70-130			
Fluorene	0.179	0.020	"	0.200	0.002	88.7	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.004	105	70-130			
Naphthalene	0.185	0.002	"	0.200	ND	92.4	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	94.8	70-130			
Pyrene	0.181	0.020	"	0.200	0.0009	90.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		118	60-130			

Matrix Spike Dup (B4D0531-MSD1)		Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/05/2024					
1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	0.0004	103	70-130	2.73	20	
2-Methylnaphthalene	0.205	0.002	"	0.200	0.0008	102	70-130	2.12	20	
Acenaphthene	0.179	0.020	"	0.200	0.001	89.2	70-130	1.43	20	
Anthracene	0.175	0.020	"	0.200	0.003	85.9	70-130	5.53	20	
Benzo (a) anthracene	0.186	0.005	"	0.200	0.002	92.1	70-130	1.71	20	
Benzo (a) pyrene	0.220	0.020	"	0.200	0.003	108	70-130	0.979	20	
Benzo (b) fluoranthene	0.221	0.020	"	0.200	0.002	109	70-130	5.64	20	
Benzo (g,h,i) perylene	0.227	0.020	"	0.200	0.003	112	70-130	1.31	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	0.003	102	70-130	8.59	20	
Chrysene	0.190	0.020	"	0.200	0.001	94.3	70-130	0.129	20	
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	0.004	109	70-130	6.44	20	
Fluoranthene	0.169	0.020	"	0.200	0.002	83.6	70-130	2.41	20	

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0531 - EPA 3580

Matrix Spike Dup (B4D0531-MSD1)	Source: Y404168-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
Fluorene	0.179	0.020	mg/kg	0.200	0.002	88.9	70-130	0.232	20	
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200	0.004	113	70-130	7.75	20	
Naphthalene	0.186	0.002	"	0.200	ND	92.8	70-130	0.400	20	
Phenanthrene	0.192	0.020	"	0.200	ND	95.9	70-130	1.16	20	
Pyrene	0.173	0.020	"	0.200	0.0009	86.0	70-130	4.65	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	180		"	200		91.5	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		115	60-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0603 - Saturated Paste Metals

Blank (B4D0603-BLK1)

Prepared: 04/06/2024 Analyzed: 04/08/2024

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

Duplicate (B4D0603-DUP1)

Source: Y404168-01

Prepared: 04/06/2024 Analyzed: 04/08/2024

Calcium PPM	4.90	10.0	mg/L		6.51			28.2	50	
SAR	ND	0.0100	SAR		1.53				200	
Magnesium PPM	1.84	10.0	mg/L		2.39			26.0	50	
Sodium PPM	13.9	10.0	"		18.0			25.6	50	

Batch B4D0805 - DTPA Sorbitol Preparation

Blank (B4D0805-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D0805-DUP1)

Source: Y404097-76

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	0.693	0.0995	mg/L		0.722			4.18	50	
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Batch B4D0806 - DTPA Sorbitol Preparation

Blank (B4D0806-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D0806-DUP1)

Source: Y404168-04

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	0.0242	0.100	mg/L		0.0286			16.7	50	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0613 - Saturated Paste pH/EC

Duplicate (B4D0613-DUP1)

Source: Y404168-01

Prepared: 04/06/2024 Analyzed: 04/07/2024

pH	7.98		pH Units		7.78			2.54	25	
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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April 16, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404187-01.

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: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW02	Y404187-01	Water	April 5, 2024 9:00	04/05/2024 15:41

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Sample Receipt Checklist

Origins Work Order: 4404197 Client: ENSOLUM
 Client Project ID: GNB W 31-3
 Checklist Completed by: JW/ETU Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 4/5/12 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 10 °C / _____ °C / _____ °C (Describe) / _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/	/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/5/12

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

GW02

4/5/2024 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404187-01 (Water)

Anions by IC 300.0

Chloride	183	31.2	mg/L	125	B4D0925	DLT	04/09/2024	04/11/2024	
Sulfate	526	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0544	JSM	04/05/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.5 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1120	5.00	mg/L	1	B4D0540	KRM	04/05/2024	04/08/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

Blank (B4D0544-BLK1)

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5	114		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.1		70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5	87.6		70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

LCS (B4D0544-BS1)

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

1,2,4-Trimethylbenzene	43.6	2.00	ug/L	50.0		87.3	70-130			
1,3,5-Trimethylbenzene	43.8	2.00	"	50.0		87.6	70-130			
Benzene	40.3	1.00	"	50.0		80.6	70-130			
Ethylbenzene	50.3	1.00	"	50.0		101	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	51.0	2.00	"	50.0		102	70-130			
o-Xylene	53.3	1.00	"	50.0		107	70-130			
Toluene	42.5	1.00	"	50.0		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	50		"	62.5		80.5	70-130			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

Matrix Spike (B4D0544-MS1)	Source: Y404156-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
1,2,4-Trimethylbenzene	590	2.00	ug/L	50.0	581	17.7	70-130			QM-07
1,3,5-Trimethylbenzene	45.9	2.00	"	50.0	ND	91.8	70-130			
Benzene	46.6	1.00	"	50.0	ND	93.2	70-130			
Ethylbenzene	450	1.00	"	50.0	441	16.6	70-130			QM-07
m,p-Xylene	119	2.00	"	100	29.3	89.5	70-130			
Naphthalene	54.6	2.00	"	50.0	9.50	90.1	70-130			
o-Xylene	52.6	1.00	"	50.0	5.91	93.3	70-130			
Toluene	45.0	1.00	"	50.0	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.7	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

Matrix Spike Dup (B4D0544-MSD1)	Source: Y404156-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
1,2,4-Trimethylbenzene	601	2.00	ug/L	50.0	581	39.7	70-130	1.85	20	QM-07
1,3,5-Trimethylbenzene	43.5	2.00	"	50.0	ND	87.0	70-130	5.37	20	
Benzene	45.2	1.00	"	50.0	ND	90.4	70-130	3.01	20	
Ethylbenzene	438	1.00	"	50.0	441	NR	70-130	2.68	20	QM-07
m,p-Xylene	113	2.00	"	100	29.3	83.7	70-130	5.04	20	
Naphthalene	52.4	2.00	"	50.0	9.50	85.8	70-130	4.00	20	
o-Xylene	49.4	1.00	"	50.0	5.91	87.0	70-130	6.26	20	
Toluene	44.0	1.00	"	50.0	ND	87.9	70-130	2.23	20	
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.4	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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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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 B4D0540 - NO PREP

Blank (B4D0540-BLK1)

Prepared: 04/05/2024 Analyzed: 04/08/2024

Total Dissolved Solids ND 5.00 mg/L

LCS (B4D0540-BS1)

Prepared: 04/05/2024 Analyzed: 04/08/2024

Total Dissolved Solids 1010 5.00 mg/L 1040 97.3 90-110

Duplicate (B4D0540-DUP1)

Source: Y404187-01

Prepared: 04/05/2024 Analyzed: 04/08/2024

Total Dissolved Solids 1120 5.00 mg/L 1120 0.358 10

Batch B4D0925 - Filter .45um non acidified

Blank (B4D0925-BLK1)

Prepared: 04/09/2024 Analyzed: 04/11/2024

Chloride ND 0.250 mg/L U

Sulfate ND 0.250 " U

LCS (B4D0925-BS1)

Prepared: 04/09/2024 Analyzed: 04/11/2024

Chloride 4.26 0.250 mg/L 4.00 107 90-110

Sulfate 4.14 0.250 " 4.00 104 90-110

Matrix Spike (B4D0925-MS1)

Source: Y404148-04

Prepared: 04/09/2024 Analyzed: 04/11/2024

Chloride 770 mg/L 500 317 90.6 90-110

Sulfate 1220 " 500 836 76.9 90-110 QM-07

Matrix Spike Dup (B4D0925-MSD1)

Source: Y404148-04

Prepared: 04/09/2024 Analyzed: 04/11/2024

Origins Laboratory, Inc.



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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4D0925 - Filter .45um non acidified

Matrix Spike Dup (B4D0925-MSD1)		Source: Y404148-04			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	778		mg/L	500	317	92.3	90-110	1.08	5	
Sulfate	1230		"	500	836	78.9	90-110	0.804	5	QM-07

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

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 at a wet weight basis.

Origins Laboratory, Inc.



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

April 24, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. April 17, 2024. This project is associated with Origins project number Y404475-01.

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: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W04@3'	Y404475-01	Soil	April 17, 2024 10:36	04/17/2024 15:50
W05@3'	Y404475-02	Soil	April 17, 2024 10:39	04/17/2024 15:50
N01@3'	Y404475-03	Soil	April 17, 2024 10:42	04/17/2024 15:50
N02@3'	Y404475-04	Soil	April 17, 2024 10:45	04/17/2024 15:50
N03@3'	Y404475-05	Soil	April 17, 2024 10:48	04/17/2024 15:50
B08@6'	Y404475-06	Soil	April 17, 2024 10:51	04/17/2024 15:50

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

ORIGINS
 LABORATORY, INC

IMPACTED
 4404925

www.originslaboratory.com

page 1 of 1

Client: Ensolum
 Address: _____
 Telephone Number: _____
 Email Address: KMG-Team
 Project Manager: Jeremy Espinoza
 Project Name: GNB W 31-3,4,5J,6 Facility
 Project Number: O9A1417648
 Samples Collected By: JR

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis			Sample Instructions						
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		BTEX	TMS	TPH, PAH	Boron	PH, SAR	GIS-1
W04e3	4/11/14	1036	3	<input checked="" type="checkbox"/>														* EXACT CNT
W05e3		1039																
N01e3		1042																
N02e3		1045																
N03e3		1048																
G08e6		1051																

Temp Received- 3

Date Results Needed

Relinquished By: [Signature] Date: 4/11/14 Time: 1550
 Received By: [Signature] Date: 4/17/14 Time: 1550
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

Origins Laboratory, Inc.
J. Bynon

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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4404475

Client: Ensolum

Client Project ID: GNB W 31-3,4,5J,6

Checklist Completed by: WJ

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

Date/time completed: 4/17/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3 °C _____ °C _____ °C _____ °C

Thermometer ID: 7005

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

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

Reviewed by (Project Manager) WJ

Date/Time Reviewed 4/17/12

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W04@3'

4/17/2024 10:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/L	10	B4D1809	ACC	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1701	ZZZ	04/17/2024	04/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	113 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1719	HKS	04/17/2024	04/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W04@3'

4/17/2024 10:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.55	0.499	meq/L	10	[CALC]	ACC	04/18/2024	04/19/2024	
Magnesium	1.21	0.823	"	"	"	ACC	"	"	
Sodium	4.17	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W04@3'

4/17/2024 10:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	97.9 %	60-130			B4D17 25		04/17/2024	04/17/2024	
Surrogate: Anthracene-d10	101 %	60-130			"		"	"	
Surrogate: Pyrene-d10	94.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	104 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.54		pH Units	1	B4D1815	EAL	04/18/2024	04/19/2024	
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SAR by 20B Saturated Paste

SAR	3.04	0.0100	SAR	1	B4D1805	ACC	04/18/2024	04/19/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.33	0.278	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
Barium	142	9.58	"	"	"	JAH	"	"	
Cadmium	0.436	0.0958	"	"	"	JAH	"	"	
Copper	27.5	9.58	"	"	"	JAH	"	"	
Lead	28.0	0.958	"	"	"	JAH	"	"	
Nickel	8.39	0.958	"	"	"	JAH	"	"	
Selenium	0.357	0.249	"	"	"	JAH	"	"	
Silver	0.295	0.0958	"	"	"	JAH	"	"	
Zinc	84.6	35.4	"	"	"	JAH	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W05@3'

4/17/2024 10:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/L	10	B4D1809	ACC	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1701	ZZZ	04/17/2024	04/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	115 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1719	HKS	04/17/2024	04/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W05@3'

4/17/2024 10:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.71	0.499	meq/L	10	[CALC]	ACC	04/18/2024	04/19/2024	
Magnesium	1.11	0.823	"	"	"	ACC	"	"	
Sodium	9.61	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

W05@3'

4/17/2024 10:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	96.9 %	60-130			B4D17 25		04/17/2024	04/17/2024	
Surrogate: Anthracene-d10	99.7 %	60-130			"		"	"	
Surrogate: Pyrene-d10	96.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	94.0 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.55		pH Units	1	B4D1815	EAL	04/18/2024	04/19/2024	
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SAR by 20B Saturated Paste

SAR	8.10	0.0100	SAR	1	B4D1805	ACC	04/18/2024	04/19/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.88	0.249	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
Barium	234	8.59	"	"	"	JAH	"	"	
Cadmium	0.285	0.0859	"	"	"	JAH	"	"	
Copper	16.4	8.59	"	"	"	JAH	"	"	
Lead	12.1	0.859	"	"	"	JAH	"	"	
Nickel	9.40	0.859	"	"	"	JAH	"	"	
Selenium	0.845	0.223	"	"	"	JAH	"	"	
Silver	ND	0.0859	"	"	"	JAH	"	"	
Zinc	67.1	31.8	"	"	"	JAH	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N01@3'

4/17/2024 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.08	1.01	mg/L	10	B4D1810	ACC	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1701	ZZZ	04/17/2024	04/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	114 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1719	HKS	04/17/2024	04/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N01@3'

4/17/2024 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.85	0.499	meq/L	10	[CALC]	ACC	04/18/2024	04/19/2024	
Magnesium	3.99	0.823	"	"	"	ACC	"	"	
Sodium	31.2	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N01@3'

4/17/2024 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	99.7 %	60-130			B4D17 25		04/17/2024	04/17/2024	
Surrogate: Anthracene-d10	98.2 %	60-130			"		"	"	
Surrogate: Pyrene-d10	100 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.60		pH Units	1	B4D1815	EAL	04/18/2024	04/19/2024	
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SAR by 20B Saturated Paste

SAR	14.8	0.0100	SAR	1	B4D1805	ACC	04/18/2024	04/19/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.16	0.280	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
Barium	148	9.65	"	"	"	JAH	"	"	
Cadmium	0.107	0.0965	"	"	"	JAH	"	"	
Copper	ND	9.65	"	"	"	JAH	"	"	
Lead	10.1	0.965	"	"	"	JAH	"	"	
Nickel	8.28	0.965	"	"	"	JAH	"	"	
Selenium	0.274	0.251	"	"	"	JAH	"	"	
Silver	ND	0.0965	"	"	"	JAH	"	"	
Zinc	60.4	35.7	"	"	"	JAH	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N02@3'

4/17/2024 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4D1810	ACC	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1701	ZZZ	04/17/2024	04/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	123 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1719	HKS	04/17/2024	04/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N02@3'

4/17/2024 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404475-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.30	0.499	meq/L	10	[CALC]	ACC	04/18/2024	04/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.39	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N02@3'

4/17/2024 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-04 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	98.0 %	60-130			B4D17 25		04/17/2024	04/17/2024	
Surrogate: Anthracene-d10	102 %	60-130			"		"	"	
Surrogate: Pyrene-d10	99.2 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.28		pH Units	1	B4D1815	EAL	04/18/2024	04/19/2024	
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SAR by 20B Saturated Paste

SAR	1.46	0.0100	SAR	1	B4D1805	ACC	04/18/2024	04/19/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.46	0.254	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
Barium	22.9	8.77	"	"	"	JAH	"	"	
Cadmium	ND	0.0877	"	"	"	JAH	"	"	
Copper	ND	8.77	"	"	"	JAH	"	"	
Lead	2.98	0.877	"	"	"	JAH	"	"	
Nickel	1.48	0.877	"	"	"	JAH	"	"	
Selenium	ND	0.228	"	"	"	JAH	"	"	
Silver	ND	0.0877	"	"	"	JAH	"	"	
Zinc	ND	32.5	"	"	"	JAH	"	"	

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N03@3'

4/17/2024 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.990	mg/L	10	B4D1810	ACC	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1701	ZZZ	04/17/2024	04/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	117 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1719	HKS	04/17/2024	04/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N03@3'

4/17/2024 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.30	0.499	meq/L	10	[CALC]	ACC	04/18/2024	04/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

N03@3'

4/17/2024 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-05 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
Surrogate: Fluorene-d10	98.8 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	96.4 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	99.0 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	8.39		pH Units	1	B4D1815	EAL	04/18/2024	04/19/2024	
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SAR by 20B Saturated Paste

SAR	0.182	0.0100	SAR	1	B4D1805	ACC	04/18/2024	04/19/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.38	0.258	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
Barium	60.8	8.90	"	"	"	JAH	"	"	
Cadmium	0.198	0.0890	"	"	"	JAH	"	"	
Copper	8.92	8.90	"	"	"	JAH	"	"	
Lead	8.06	0.890	"	"	"	JAH	"	"	
Nickel	5.25	0.890	"	"	"	JAH	"	"	
Selenium	ND	0.231	"	"	"	JAH	"	"	
Silver	ND	0.0890	"	"	"	JAH	"	"	

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

N03@3'

4/17/2024 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-05 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	32.9	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B08@6'

4/17/2024 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B4D1810	ACC	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1701	ZZZ	04/17/2024	04/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	123 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1719	HKS	04/17/2024	04/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B08@6'

4/17/2024 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.714	0.499	meq/L	10	[CALC]	ACC	04/18/2024	04/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.24	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1725	agile	04/17/2024	04/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

B08@6'

4/17/2024 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404475-06 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B4D17 25		04/17/2024	04/17/2024	
Surrogate: Anthracene-d10	94.9 %	60-130			"		"	"	
Surrogate: Pyrene-d10	105 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.17		pH Units	1	B4D1815	EAL	04/18/2024	04/19/2024	
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SAR by 20B Saturated Paste

SAR	1.68	0.0100	SAR	1	B4D1805	ACC	04/18/2024	04/19/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.426	0.244	mg/kg	10	B4D1729	JAH	04/17/2024	04/18/2024	
Barium	ND	8.42	"	"	"	JAH	"	"	
Cadmium	ND	0.0842	"	"	"	JAH	"	"	
Copper	ND	8.42	"	"	"	JAH	"	"	
Lead	1.44	0.842	"	"	"	JAH	"	"	
Nickel	ND	0.842	"	"	"	JAH	"	"	
Selenium	ND	0.219	"	"	"	JAH	"	"	
Silver	ND	0.0842	"	"	"	JAH	"	"	
Zinc	ND	31.2	"	"	"	JAH	"	"	

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1701 - EPA 3550B										
Blank (B4D1701-BLK1)										
					Prepared: 04/17/2024 Analyzed: 04/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1701 - EPA 3550B

LCS (B4D1701-BS1)

Prepared: 04/17/2024 Analyzed: 04/17/2024

Diesel (C10-C28)	928	50.0	mg/kg	1000		92.8	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1701 - EPA 3550B

Matrix Spike (B4D1701-MS1)	Source: Y404470-01			Prepared: 04/17/2024 Analyzed: 04/17/2024						
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	997	200	"	1000	ND	99.7	70-130			
Surrogate: o-Terphenyl	65		"	49.8		131	50-150			

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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 B4D1701 - EPA 3550B

Matrix Spike Dup (B4D1701-MSD1)	Source: Y404470-01		Prepared: 04/17/2024 Analyzed: 04/17/2024							
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130	1.21	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	0.783	35	
Surrogate: o-Terphenyl	67		"	49.8		134	50-150			

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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 B4D1719 - EPA 5030 (soil)

Blank (B4D1719-BLK1)

Prepared: 04/17/2024 Analyzed: 04/17/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1719 - EPA 5030 (soil)

LCS (B4D1719-BS1)

Prepared: 04/17/2024 Analyzed: 04/17/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0979	0.00200	"	0.100		97.9	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0976	0.00200	"	0.100		97.6	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1719 - EPA 5030 (soil)

Matrix Spike (B4D1719-MS1)	Source: Y404470-01			Prepared: 04/17/2024 Analyzed: 04/17/2024						
1,2,4-Trimethylbenzene	0.0996	0.00200	mg/kg	0.100	ND	99.6	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
o-Xylene	0.0991	0.00200	"	0.100	ND	99.1	70-130			
m,p-Xylene	0.194	0.00400	"	0.200	ND	96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	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 B4D1719 - EPA 5030 (soil)

Matrix Spike Dup (B4D1719-MSD1)	Source: Y404470-01	Prepared: 04/17/2024	Analyzed: 04/17/2024						
1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100	ND	99.9	70-130	0.321	20
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	0.793	20
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	2.15	20
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	0.238	20
Naphthalene	0.111	0.00380	"	0.100	ND	111	70-130	0.883	20
Toluene	0.0963	0.00200	"	0.100	ND	96.3	70-130	0.709	20
o-Xylene	0.0991	0.00200	"	0.100	ND	99.1	70-130	0.0202	20
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.4	70-130	0.608	20
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130		
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130		
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130		

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1729 - EPA 3050B

Blank (B4D1729-BLK1)

Prepared: 04/17/2024 Analyzed: 04/18/2024

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

LCS (B4D1729-BS1)

Prepared: 04/17/2024 Analyzed: 04/18/2024

Arsenic	5.53	0.290	mg/kg	5.00		111	80-120			
Barium	550	10.0	"	500		110	80-120			
Cadmium	5.86	0.100	"	5.00		117	80-120			
Copper	56.9	10.0	"	50.0		114	80-120			
Lead	5.51	1.00	"	5.00		110	80-120			
Nickel	5.21	1.00	"	5.00		104	80-120			
Selenium	11.0	0.260	"	9.50		116	80-120			
Silver	5.96	0.100	"	5.00		119	80-120			
Zinc	54.9	37.0	"	50.0		110	80-120			

Matrix Spike (B4D1729-MS1)

Source: Y404474-22

Prepared: 04/17/2024 Analyzed: 04/18/2024

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1729 - EPA 3050B

Matrix Spike (B4D1729-MS1)		Source: Y404474-22			Prepared: 04/17/2024 Analyzed: 04/18/2024					
Arsenic	6.58	0.249	mg/kg	4.30	1.00	130	75-125			QM-07
Barium	531	8.60	"	430	30.9	116	75-125			
Cadmium	5.09	0.0860	"	4.30	0.0337	117	75-125			
Copper	54.9	8.60	"	43.0	3.17	120	75-125			
Lead	9.78	0.860	"	4.30	4.13	131	75-125			QM-07
Nickel	8.64	0.860	"	4.30	2.44	144	75-125			QM-07
Selenium	9.50	0.224	"	8.17	0.0543	116	75-125			
Silver	5.25	0.0860	"	4.30	0.0159	122	75-125			
Zinc	69.7	31.8	"	43.0	14.0	129	75-125			QM-07

Matrix Spike Dup (B4D1729-MSD1)		Source: Y404474-22			Prepared: 04/17/2024 Analyzed: 04/18/2024					
Arsenic	5.93	0.250	mg/kg	4.32	1.00	114	75-125	10.4	20	
Barium	509	8.63	"	432	30.9	111	75-125	4.31	20	
Cadmium	5.04	0.0863	"	4.32	0.0337	116	75-125	0.863	20	
Copper	55.5	8.63	"	43.2	3.17	121	75-125	1.09	20	
Lead	9.11	0.863	"	4.32	4.13	115	75-125	7.08	20	
Nickel	7.77	0.863	"	4.32	2.44	123	75-125	10.6	20	
Selenium	9.47	0.224	"	8.20	0.0543	115	75-125	0.366	20	
Silver	5.17	0.0863	"	4.32	0.0159	119	75-125	1.49	20	
Zinc	62.9	31.9	"	43.2	14.0	113	75-125	10.3	20	

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1725 - EPA 3580

Blank (B4D1725-BLK1)

Prepared: 04/17/2024 Analyzed: 04/17/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		92.6	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130			

LCS (B4D1725-BS1)

Prepared: 04/17/2024 Analyzed: 04/17/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.1	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.3	70-130			
Acenaphthene	0.180	0.020	"	0.200		90.0	70-130			
Anthracene	0.186	0.020	"	0.200		93.2	70-130			

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Jeremy Espinoza
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1725 - EPA 3580

LCS (B4D1725-BS1)

Prepared: 04/17/2024 Analyzed: 04/17/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.5	70-130			
Benzo (a) pyrene	0.184	0.020	"	0.200		91.9	70-130			
Benzo (b) fluoranthene	0.170	0.020	"	0.200		84.9	70-130			
Benzo (g,h,i) perylene	0.175	0.020	"	0.200		87.7	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.3	70-130			
Chrysene	0.183	0.020	"	0.200		91.7	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		95.1	70-130			
Fluoranthene	0.181	0.020	"	0.200		90.5	70-130			
Fluorene	0.182	0.020	"	0.200		90.9	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		84.8	70-130			
Naphthalene	0.179	0.002	"	0.200		89.7	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.7	70-130			
Pyrene	0.188	0.020	"	0.200		93.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.8	60-130			

Matrix Spike (B4D1725-MS1)

Source: Y404475-01

Prepared: 04/17/2024 Analyzed: 04/17/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	ND	96.7	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.5	70-130			
Acenaphthene	0.183	0.020	"	0.200	0.0006	91.0	70-130			
Anthracene	0.188	0.020	"	0.200	ND	93.9	70-130			
Benzo (a) anthracene	0.181	0.005	"	0.200	0.001	89.9	70-130			
Benzo (a) pyrene	0.188	0.020	"	0.200	ND	94.0	70-130			
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.001	96.2	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.0008	96.8	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1725 - EPA 3580

Matrix Spike (B4D1725-MS1)		Source: Y404475-01			Prepared: 04/17/2024 Analyzed: 04/17/2024					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.001	96.4	70-130			
Chrysene	0.184	0.020	"	0.200	0.0007	91.8	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.6	70-130			
Fluoranthene	0.180	0.020	"	0.200	0.001	89.4	70-130			
Fluorene	0.184	0.020	"	0.200	0.0003	91.6	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	0.002	92.2	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.6	70-130			
Phenanthrene	0.189	0.020	"	0.200	ND	94.6	70-130			
Pyrene	0.187	0.020	"	0.200	0.0008	93.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4D1725-MSD1)		Source: Y404475-01			Prepared: 04/17/2024 Analyzed: 04/17/2024					
1-Methylnaphthalene	0.169	0.002	mg/kg	0.200	ND	84.4	70-130	13.6	20	
2-Methylnaphthalene	0.165	0.002	"	0.200	ND	82.4	70-130	17.8	20	
Acenaphthene	0.177	0.020	"	0.200	0.0006	88.2	70-130	3.02	20	
Anthracene	0.178	0.020	"	0.200	ND	89.1	70-130	5.31	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	0.001	87.2	70-130	2.99	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	ND	92.1	70-130	2.03	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	0.001	88.8	70-130	7.92	20	
Benzo (g,h,i) perylene	0.179	0.020	"	0.200	0.0008	89.1	70-130	8.26	20	
Benzo (k) fluoranthene	0.169	0.020	"	0.200	0.001	83.6	70-130	14.1	20	
Chrysene	0.182	0.020	"	0.200	0.0007	90.5	70-130	1.47	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130	4.50	20	
Fluoranthene	0.178	0.020	"	0.200	0.001	88.2	70-130	1.34	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1725 - EPA 3580

Matrix Spike Dup (B4D1725-MSD1)	Source: Y404475-01			Prepared: 04/17/2024 Analyzed: 04/17/2024						
Fluorene	0.172	0.020	mg/kg	0.200	0.0003	86.1	70-130	6.23	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	0.002	89.9	70-130	2.52	20	
Naphthalene	0.176	0.002	"	0.200	ND	87.8	70-130	6.38	20	
Phenanthrene	0.179	0.020	"	0.200	ND	89.7	70-130	5.29	20	
Pyrene	0.187	0.020	"	0.200	0.0008	92.9	70-130	0.150	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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Ensolum
 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1805 - Saturated Paste Metals

Blank (B4D1805-BLK1)

Prepared: 04/18/2024 Analyzed: 04/19/2024

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

Duplicate (B4D1805-DUP1)

Source: Y404474-21

Prepared: 04/18/2024 Analyzed: 04/19/2024

Calcium PPM	13.5	10.0	mg/L		14.0			3.71	50	
SAR	ND	0.0100	SAR		8.63				200	
Magnesium PPM	7.38	10.0	mg/L		7.46			1.08	50	
Sodium PPM	158	10.0	"		161			1.88	50	

Batch B4D1809 - DTPA Sorbitol Preparation

Blank (B4D1809-BLK1)

Prepared: 04/18/2024 Analyzed: 04/19/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D1809-DUP1)

Source: Y404474-09

Prepared: 04/18/2024 Analyzed: 04/19/2024

Boron	0.429	0.101	mg/L		0.349			20.5	50	
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Batch B4D1810 - DTPA Sorbitol Preparation

Blank (B4D1810-BLK1)

Prepared: 04/18/2024 Analyzed: 04/19/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D1810-DUP1)

Source: Y404475-03

Prepared: 04/18/2024 Analyzed: 04/19/2024

Boron	0.998	1.00	mg/L		1.08			8.22	50	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1815 - Saturated Paste pH/EC

Duplicate (B4D1815-DUP1)		Source: Y404474-21			Prepared: 04/18/2024 Analyzed: 04/19/2024					
pH	8.46		pH Units		8.47			0.118	25	

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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

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 at a wet weight basis.

Origins Laboratory, Inc.



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April 30, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404191-01.

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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL02@5'	Y404191-01	Soil	April 5, 2024 13:00	04/05/2024 16:14
FL02@5-V	Y404191-02	Soil	April 5, 2024 13:00	04/05/2024 16:14
FL03@5'	Y404191-03	Soil	April 5, 2024 13:10	04/05/2024 16:14
FL03@5-V	Y404191-04	Soil	April 5, 2024 13:10	04/05/2024 16:14
FL04@4'	Y404191-05	Soil	April 5, 2024 13:25	04/05/2024 16:14
FL04@4-V	Y404191-06	Soil	April 5, 2024 13:25	04/05/2024 16:14
FL04-GW	Y404191-07	Water	April 5, 2024 13:25	04/05/2024 16:14
FL-05@4'	Y404191-08	Soil	April 5, 2024 13:45	04/05/2024 16:14
FL-05@4-V	Y404191-09	Soil	April 5, 2024 13:45	04/05/2024 16:14
FL05-GW	Y404191-10	Water	April 5, 2024 13:45	04/05/2024 16:14
FL06@5'	Y404191-11	Soil	April 5, 2024 14:00	04/05/2024 16:14
FL06@5-V	Y404191-12	Soil	April 5, 2024 14:00	04/05/2024 16:14
FL07@4'	Y404191-13	Soil	April 5, 2024 14:20	04/05/2024 16:14
FL07@4-V	Y404191-14	Soil	April 5, 2024 14:20	04/05/2024 16:14

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL06-GW	Y404191-15	Water	April 5, 2024 14:00	04/05/2024 16:14

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility



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440191

page | of 2

Client: Ensolum Project Manager: Jeremy Espinoza
 Address: _____ Project Name: GNB W 31-3,4,5J,6 Facility
 Telephone Number: 303 888 9943 Project Number: O9A1417648
 Email Address: kmg@ensolum.com Samples Collected By: JE

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
FLO205	4/5/24	1300	3	X				X						
FLO205-V		1300	3											Added to FLO205-V & Cr V12
FLO305		1310												
FLO305-V		1310												Added to FLO205-V
FLO404		1325												FLO205-V per
FLO404-V		1325												Jeremy's email on
FLO404-AW		1325												NO JK
FLO504		1345	3					X						
FLO504-V		1345	3					X						
FLO504-AW		1345	4					X						

Relinquished By: Jeremy Espinoza Date: 4/5/24 Time: 1614
 Relinquished By: _____ Date: _____ Time: _____
 Temp Received: 5 Date Results Needed: _____

Origins Laboratory, Inc.

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

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4404191

Client: Ensolum

Client Project ID: GNB W 31-3,4,5J,6

Checklist Completed by: JJA/ETIS

Shipped Via: FD

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

Date/time completed: 4/5/12

Airbill #: N/A

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

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

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/5/12

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL02@5'

4/5/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.220		0.0990	mg/L	1	B4D0807	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0535	04/05/2024	04/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0539	04/05/2024	04/05/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	125 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL02@5'

4/5/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %		70-130			B4D05 39	04/05/2024	04/05/2024	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.85		0.499	meq/L	10	[CALC]	04/06/2024	04/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.966		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL02@5'
4/5/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	113 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.47			pH Units	1	B4D0615	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	0.853		0.0100	SAR	1	B4D0605	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.394		0.00500	mmhos/cm	1	B4D0615	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL02@5'

4/5/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.62	0.282	mg/kg	10	B4D0541	04/05/2024	04/06/2024	
Barium	73.2	9.71	"	"	"	"	"	
Cadmium	0.178	0.0971	"	"	"	"	"	
Copper	10.7	9.71	"	"	"	"	"	
Lead	13.8	0.971	"	"	"	"	"	
Nickel	6.62	0.971	"	"	"	"	"	
Selenium	ND	0.252	"	"	"	"	"	
Silver	0.0990	0.0971	"	"	"	"	"	
Zinc	41.1	35.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.135	0.338	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL02@5-V

4/5/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-02 (Soil)

pH in Soil by 9045D

pH	8.47			pH Units	1	B4D1020	04/10/2024	04/11/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL03@5'

4/5/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.278		0.0989	mg/L	1	B4D0807	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0535	04/05/2024	04/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	100 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0539	04/05/2024	04/06/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	127 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL03@5'

4/5/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.2 %		70-130			B4D05 39	04/05/2024	04/06/2024	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.68		0.499	meq/L	10	[CALC]	04/06/2024	04/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.35		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL03@5'

4/5/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	117 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.53			pH Units	1	B4D0615	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	2.21		0.0100	SAR	1	B4D0605	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.563		0.00500	mmhos/cm	1	B4D0615	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL03@5'

4/5/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.42		0.281	mg/kg	10	B4D0541	04/05/2024	04/06/2024	
Barium	115		9.68	"	"	"	"	"	
Cadmium	0.147		0.0968	"	"	"	"	"	
Copper	10.1		9.68	"	"	"	"	"	
Lead	11.1		0.968	"	"	"	"	"	
Nickel	7.34		0.968	"	"	"	"	"	
Selenium	0.381		0.252	"	"	"	"	"	
Silver	ND		0.0968	"	"	"	"	"	
Zinc	49.3		35.8	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.103	0.257	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL03@5-V

4/5/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-04 (Soil)

pH in Soil by 9045D

pH	8.55			pH Units	1	B4D1020	04/10/2024	04/11/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL04@4'

4/5/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-05 (Soil)

Boron (DTPA Sorbitol)

Boron	1.68		0.0982	mg/L	1	B4D0807	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0535	04/05/2024	04/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0539	04/05/2024	04/06/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL04@4'
4/5/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %		70-130			B4D05 39	04/05/2024	04/06/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.76	0.499	meq/L	10	[CALC]		04/06/2024	04/08/2024	
Magnesium	1.02	0.823	"	"	"	"	"	"	
Sodium	14.4	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0536		04/05/2024	04/06/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL04@4'

4/5/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	114 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.44			pH Units	1	B4D0615	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	12.2		0.0100	SAR	1	B4D0605	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.75		0.00500	mmhos/cm	1	B4D0615	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL04@4'

4/5/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.54		0.286	mg/kg	10	B4D0541	04/05/2024	04/06/2024	
Barium	168		9.87	"	"	"	"	"	
Cadmium	0.496		0.0987	"	"	"	"	"	
Copper	24.4		9.87	"	"	"	"	"	
Lead	28.3		0.987	"	"	"	"	"	
Nickel	9.26		0.987	"	"	"	"	"	
Selenium	0.411		0.257	"	"	"	"	"	
Silver	0.286		0.0987	"	"	"	"	"	
Zinc	81.7		36.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.404	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL04@4-V

4/5/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-06 (Soil)

pH in Soil by 9045D

pH	8.78			pH Units	1	B4D1020	04/10/2024	04/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.97	0.249	mg/kg	10	B4D1626	04/16/2024	04/17/2024	
Barium	145	8.58	"	"	"	"	"	"
Cadmium	0.160	0.0858	"	"	"	"	"	"
Copper	12.8	8.58	"	"	"	"	"	"
Lead	11.9	0.858	"	"	"	"	"	"
Nickel	8.69	0.858	"	"	"	"	"	"
Selenium	0.284	0.223	"	"	"	"	"	"
Silver	0.0978	0.0858	"	"	"	"	"	"
Zinc	58.4	31.7	"	"	"	"	"	"

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL04-GW
4/5/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-07 (Water)

Anions by IC 300.0

Chloride	193		31.2	mg/L	125	B4D0925	04/09/2024	04/11/2024	
Sulfate	537		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4D0544	04/05/2024	04/05/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.9 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1130		5.00	mg/L	1	B4D0540	04/05/2024	04/08/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL-05@4'
4/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.721		0.100	mg/L	1	B4D0807	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0535	04/05/2024	04/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0539	04/05/2024	04/06/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	127 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL-05@4'

4/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %		70-130			B4D05 39	04/05/2024	04/06/2024	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.91	0.499	meq/L	10	[CALC]		04/06/2024	04/08/2024	
Magnesium	2.21	0.823	"	"	"	"	"	"	
Sodium	11.2	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0536		04/05/2024	04/06/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL-05@4'
4/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-08 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B4D0615	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	5.94		0.0100	SAR	1	B4D0605	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.78		0.00500	mmhos/cm	1	B4D0615	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL-05@4'

4/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.87	0.277	mg/kg	10	B4D0541	04/05/2024	04/06/2024	
Barium	97.9	9.54	"	"	"	"	"	
Cadmium	0.358	0.0954	"	"	"	"	"	
Copper	19.4	9.54	"	"	"	"	"	
Lead	19.9	0.954	"	"	"	"	"	
Nickel	6.23	0.954	"	"	"	"	"	
Selenium	ND	0.248	"	"	"	"	"	
Silver	0.253	0.0954	"	"	"	"	"	
Zinc	59.7	35.3	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.131	0.327	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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Origins Laboratory, Inc.



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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL-05@4-V

4/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-09 (Soil)

pH in Soil by 9045D

pH	8.58			pH Units	1	B4D1020	04/10/2024	04/11/2024	
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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL05-GW
4/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-10 (Water)

Anions by IC 300.0

Chloride	201		31.2	mg/L	125	B4D0926	04/09/2024	04/11/2024	
Sulfate	513		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4D0544	04/05/2024	04/05/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	5.63		1.00	"	"	"	"	"	
Xylenes, total	4.37		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.3 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1220		5.00	mg/L	1	B4D0540	04/05/2024	04/08/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL06@5'

4/5/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.997	mg/L	10	B4D0807	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0535	04/05/2024	04/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0539	04/05/2024	04/06/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	127 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL06@5'

4/5/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.6 %		70-130			B4D05 39	04/05/2024	04/06/2024	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.69		0.499	meq/L	10	[CALC]	04/06/2024	04/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.63		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL06@5'
4/5/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-11 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	115 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B4D0615	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	3.34		0.0100	SAR	1	B4D0605	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.722		0.00500	mmhos/cm	1	B4D0615	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL06@5'

4/5/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-11 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.70		0.244	mg/kg	10	B4D0541	04/05/2024	04/06/2024	
Barium	103		8.42	"	"	"	"	"	
Cadmium	0.246		0.0842	"	"	"	"	"	
Copper	16.0		8.42	"	"	"	"	"	
Lead	14.1		0.842	"	"	"	"	"	
Nickel	8.91		0.842	"	"	"	"	"	
Selenium	0.561		0.219	"	"	"	"	"	
Silver	0.122		0.0842	"	"	"	"	"	
Zinc	71.9		31.1	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	0.179	0.157	0.393	mg/kg dry	1	2594781	04/10/2024	04/10/2024	J
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Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL06@5-V

4/5/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-12 (Soil)

pH in Soil by 9045D

pH	8.60			pH Units	1	B4D1020	04/10/2024	04/11/2024	
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Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.378	mg/kg dry	1	2600610	04/23/2024	04/25/2024	U
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL07@4'
4/5/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.992	mg/L	10	B4D0807	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0535	04/05/2024	04/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0539	04/05/2024	04/06/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130			"	"	"	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL07@4'

4/5/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.5 %		70-130			B4D05 39	04/05/2024	04/06/2024	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.50		0.499	meq/L	10	[CALC]	04/06/2024	04/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.35		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL07@4'
4/5/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-13 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D0536	04/05/2024	04/06/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	117 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B4D0615	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	3.24		0.0100	SAR	1	B4D0605	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.693		0.00500	mmhos/cm	1	B4D0615	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL07@4'

4/5/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-13 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.07		0.269	mg/kg	10	B4D0541	04/05/2024	04/06/2024	
Barium	120		9.27	"	"	"	"	"	
Cadmium	ND		0.0927	"	"	"	"	"	
Copper	9.63		9.27	"	"	"	"	"	
Lead	9.99		0.927	"	"	"	"	"	
Nickel	8.12		0.927	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	
Silver	ND		0.0927	"	"	"	"	"	
Zinc	48.9		34.3	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	0.245	0.145	0.362	mg/kg dry	1	2594781	04/10/2024	04/10/2024	J
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL07@4-V

4/5/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-14 (Soil)

pH in Soil by 9045D

pH	8.25			pH Units	1	B4D1020	04/10/2024	04/11/2024	
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Total Metals by 7196A

Hexavalent Chromium	ND	0.144	0.359	mg/kg dry	1	2600610	04/23/2024	04/25/2024	U
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL06-GW
4/5/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404191-15 (Water)

Anions by IC 300.0

Chloride	204		31.2	mg/L	125	B4D0926	04/09/2024	04/11/2024	
Sulfate	494		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	3.91		2.00	ug/L	1	B4D0544	04/05/2024	04/05/2024	
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	1.14		1.00	"	"	"	"	"	
Ethylbenzene	2.07		1.00	"	"	"	"	"	
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	25.7		1.00	"	"	"	"	"	
Xylenes, total	30.6		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.1 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1180		5.00	mg/L	1	B4D0540	04/05/2024	04/08/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0535 - EPA 3550B										
Blank (B4D0535-BLK1)										
					Prepared: 04/05/2024 Analyzed: 04/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0535 - EPA 3550B

LCS (B4D0535-BS1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

Diesel (C10-C28)	981	50.0	mg/kg	1000		98.1	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0535 - EPA 3550B

Matrix Spike (B4D0535-MS1)	Source: Y404162-21			Prepared: 04/05/2024 Analyzed: 04/06/2024						
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0535 - EPA 3550B

Matrix Spike Dup (B4D0535-MSD1)	Source: Y404162-21			Prepared: 04/05/2024 Analyzed: 04/06/2024						
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130	0.0889	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	0.543	35	
<i>Surrogate: o-Terphenyl</i>	54		"	49.8		108	50-150			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0539 - EPA 5030 (soil)

Blank (B4D0539-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	120		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0539 - EPA 5030 (soil)

LCS (B4D0539-BS1)

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

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0887	0.00200	"	0.100		88.7	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.196	0.00400	"	0.200		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0539 - EPA 5030 (soil)

Matrix Spike (B4D0539-MS1)	Source: Y404162-21		Prepared: 04/05/2024 Analyzed: 04/05/2024							
1,2,4-Trimethylbenzene	0.0907	0.00200	mg/kg	0.100	0.000440	90.3	70-130			
1,3,5-Trimethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Benzene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
Ethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Naphthalene	0.0947	0.00380	"	0.100	0.00254	92.1	70-130			
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
o-Xylene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0539 - EPA 5030 (soil)

Matrix Spike Dup (B4D0539-MSD1)	Source: Y404162-21		Prepared: 04/05/2024 Analyzed: 04/05/2024							
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.000440	112	70-130	21.4	20	QR-02
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	22.6	20	QR-02
Benzene	0.119	0.00200	"	0.100	ND	119	70-130	22.4	20	QR-02
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	20.4	20	QR-02
Naphthalene	0.113	0.00380	"	0.100	0.00254	110	70-130	17.2	20	
Toluene	0.120	0.00200	"	0.100	ND	120	70-130	22.4	20	QR-02
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	21.0	20	QR-02
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130	20.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		126	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

Blank (B4D0544-BLK1)

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5	114		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.1		70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5	87.6		70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

LCS (B4D0544-BS1)

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

1,2,4-Trimethylbenzene	43.6	2.00	ug/L	50.0		87.3	70-130			
1,3,5-Trimethylbenzene	43.8	2.00	"	50.0		87.6	70-130			
Benzene	40.3	1.00	"	50.0		80.6	70-130			
Ethylbenzene	50.3	1.00	"	50.0		101	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	51.0	2.00	"	50.0		102	70-130			
o-Xylene	53.3	1.00	"	50.0		107	70-130			
Toluene	42.5	1.00	"	50.0		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	50		"	62.5		80.5	70-130			

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

Matrix Spike (B4D0544-MS1)	Source: Y404156-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
1,2,4-Trimethylbenzene	590	2.00	ug/L	50.0	581	17.7	70-130			QM-07
1,3,5-Trimethylbenzene	45.9	2.00	"	50.0	ND	91.8	70-130			
Benzene	46.6	1.00	"	50.0	ND	93.2	70-130			
Ethylbenzene	450	1.00	"	50.0	441	16.6	70-130			QM-07
m,p-Xylene	119	2.00	"	100	29.3	89.5	70-130			
Naphthalene	54.6	2.00	"	50.0	9.50	90.1	70-130			
o-Xylene	52.6	1.00	"	50.0	5.91	93.3	70-130			
Toluene	45.0	1.00	"	50.0	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.7	70-130			

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 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0544 - EPA 5030B (Water)

Matrix Spike Dup (B4D0544-MSD1)	Source: Y404156-01			Prepared: 04/05/2024 Analyzed: 04/05/2024						
1,2,4-Trimethylbenzene	601	2.00	ug/L	50.0	581	39.7	70-130	1.85	20	QM-07
1,3,5-Trimethylbenzene	43.5	2.00	"	50.0	ND	87.0	70-130	5.37	20	
Benzene	45.2	1.00	"	50.0	ND	90.4	70-130	3.01	20	
Ethylbenzene	438	1.00	"	50.0	441	NR	70-130	2.68	20	QM-07
m,p-Xylene	113	2.00	"	100	29.3	83.7	70-130	5.04	20	
Naphthalene	52.4	2.00	"	50.0	9.50	85.8	70-130	4.00	20	
o-Xylene	49.4	1.00	"	50.0	5.91	87.0	70-130	6.26	20	
Toluene	44.0	1.00	"	50.0	ND	87.9	70-130	2.23	20	
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.4	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0541 - EPA 3050B

Blank (B4D0541-BLK1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

Arsenic	ND	0.290	mg/kg						
Barium	ND	10.0	"						
Selenium	ND	0.260	"						

LCS (B4D0541-BS1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

Arsenic	5.08	0.290	mg/kg	5.00		102	80-120		
Barium	523	10.0	"	500		105	80-120		
Selenium	9.99	0.260	"	9.50		105	80-120		

Matrix Spike (B4D0541-MS1)

Source: Y404170-01

Prepared: 04/05/2024 Analyzed: 04/06/2024

Arsenic	6.12	0.258	mg/kg	4.44	1.60	102	75-125		
Barium	504	8.89	"	444	43.7	104	75-125		
Selenium	8.72	0.231	"	8.44	0.0769	102	75-125		

Matrix Spike Dup (B4D0541-MSD1)

Source: Y404170-01

Prepared: 04/05/2024 Analyzed: 04/06/2024

Arsenic	5.94	0.244	mg/kg	4.20	1.60	103	75-125	3.13	20
Barium	472	8.40	"	420	43.7	102	75-125	6.48	20
Selenium	8.52	0.219	"	7.98	0.0769	106	75-125	2.36	20

Batch B4D1626 - EPA 3050B

Blank (B4D1626-BLK1)

Prepared: 04/16/2024 Analyzed: 04/17/2024

Arsenic	ND	0.290	mg/kg						
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1626 - EPA 3050B

Blank (B4D1626-BLK1)

Prepared: 04/16/2024 Analyzed: 04/17/2024

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

LCS (B4D1626-BS1)

Prepared: 04/16/2024 Analyzed: 04/17/2024

Arsenic	4.89	0.290	mg/kg	5.00		97.8	80-120			
Barium	481	10.0	"	500		96.1	80-120			
Cadmium	5.13	0.100	"	5.00		103	80-120			
Copper	52.9	10.0	"	50.0		106	80-120			
Lead	4.81	1.00	"	5.00		96.2	80-120			
Nickel	5.15	1.00	"	5.00		103	80-120			
Selenium	9.80	0.260	"	9.50		103	80-120			
Silver	4.88	0.100	"	5.00		97.7	80-120			
Zinc	49.4	37.0	"	50.0		98.9	80-120			

LCS (B4D1626-BS2)

Prepared: 04/16/2024 Analyzed: 04/17/2024

Arsenic	4.89	0.290	mg/kg	5.00		97.8	80-120			
Barium	481	10.0	"	500		96.1	80-120			
Cadmium	5.13	0.100	"	5.00		103	80-120			
Copper	52.9	10.0	"	50.0		106	80-120			
Lead	4.81	1.00	"	5.00		96.2	80-120			
Nickel	5.15	1.00	"	5.00		103	80-120			

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1626 - EPA 3050B

LCS (B4D1626-BS2)

Prepared: 04/16/2024 Analyzed: 04/17/2024

Selenium	9.80	0.260	mg/kg	9.50		103	80-120			
Silver	4.88	0.100	"	5.00		97.7	80-120			
Zinc	49.4	37.0	"	50.0		98.9	80-120			

Matrix Spike (B4D1626-MS1)

Source: Y404433-01

Prepared: 04/16/2024 Analyzed: 04/17/2024

Arsenic	8.02	0.260	mg/kg	4.49	6.41	35.8	75-125			QM-07
Barium	562	8.98	"	449	762	NR	75-125			QM-07
Cadmium	4.58	0.0898	"	4.49	0.200	97.5	75-125			
Copper	54.8	8.98	"	44.9	16.8	84.6	75-125			
Lead	11.7	0.898	"	4.49	18.5	NR	75-125			QM-07
Nickel	13.5	0.898	"	4.49	13.7	NR	75-125			QM-07
Selenium	8.40	0.233	"	8.53	0.557	91.9	75-125			
Silver	4.28	0.0898	"	4.49	0.0653	93.9	75-125			
Zinc	72.8	33.2	"	44.9	89.7	NR	75-125			QM-07

Matrix Spike Dup (B4D1626-MSD1)

Source: Y404433-01

Prepared: 04/16/2024 Analyzed: 04/17/2024

Arsenic	9.07	0.285	mg/kg	4.91	6.41	54.0	75-125	12.3	20	QM-07
Barium	633	9.82	"	491	762	NR	75-125	11.9	20	QM-07
Cadmium	5.22	0.0982	"	4.91	0.200	102	75-125	13.1	20	
Copper	61.5	9.82	"	49.1	16.8	91.1	75-125	11.7	20	
Lead	12.6	0.982	"	4.91	18.5	NR	75-125	7.62	20	QM-07
Nickel	14.8	0.982	"	4.91	13.7	22.1	75-125	9.42	20	QM-07
Selenium	9.79	0.255	"	9.33	0.557	98.9	75-125	15.3	20	
Silver	5.00	0.0982	"	4.91	0.0653	101	75-125	15.5	20	
Zinc	83.3	36.3	"	49.1	89.7	NR	75-125	13.5	20	QM-07

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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 B4D0536 - EPA 3580

Blank (B4D0536-BLK1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	190		"	200		96.7	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

LCS (B4D0536-BS1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.6	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200		98.2	70-130			
Acenaphthene	0.174	0.020	"	0.200		87.0	70-130			
Anthracene	0.174	0.020	"	0.200		87.0	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 B4D0536 - EPA 3580

LCS (B4D0536-BS1)

Prepared: 04/05/2024 Analyzed: 04/06/2024

Benzo (a) anthracene	0.181	0.005	mg/kg	0.200		90.4	70-130			
Benzo (a) pyrene	0.223	0.020	"	0.200		112	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200		109	70-130			
Benzo (g,h,i) perylene	0.224	0.020	"	0.200		112	70-130			
Benzo (k) fluoranthene	0.208	0.020	"	0.200		104	70-130			
Chrysene	0.190	0.020	"	0.200		95.1	70-130			
Dibenz (a,h) anthracene	0.227	0.020	"	0.200		114	70-130			
Fluoranthene	0.163	0.020	"	0.200		81.7	70-130			
Fluorene	0.177	0.020	"	0.200		88.3	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200		111	70-130			
Naphthalene	0.183	0.002	"	0.200		91.7	70-130			
Phenanthrene	0.185	0.020	"	0.200		92.3	70-130			
Pyrene	0.180	0.020	"	0.200		90.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.3	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

Matrix Spike (B4D0536-MS1)

Source: Y404179-01

Prepared: 04/05/2024 Analyzed: 04/06/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.0007	97.4	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.0	70-130			
Acenaphthene	0.173	0.020	"	0.200	ND	86.7	70-130			
Anthracene	0.172	0.020	"	0.200	ND	86.1	70-130			
Benzo (a) anthracene	0.185	0.005	"	0.200	ND	92.7	70-130			
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	107	70-130			
Benzo (b) fluoranthene	0.221	0.020	"	0.200	0.001	110	70-130			
Benzo (g,h,i) perylene	0.223	0.020	"	0.200	0.001	111	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 B4D0536 - EPA 3580

Matrix Spike (B4D0536-MS1)		Source: Y404179-01			Prepared: 04/05/2024 Analyzed: 04/06/2024					
Benzo (k) fluoranthene	0.181	0.020	mg/kg	0.200	0.002	89.5	70-130			
Chrysene	0.188	0.020	"	0.200	ND	94.1	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.002	110	70-130			
Fluoranthene	0.176	0.020	"	0.200	ND	88.0	70-130			
Fluorene	0.177	0.020	"	0.200	ND	88.4	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Naphthalene	0.178	0.002	"	0.200	ND	89.0	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Pyrene	0.181	0.020	"	0.200	ND	90.7	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		94.8	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

Matrix Spike Dup (B4D0536-MSD1)		Source: Y404179-01			Prepared: 04/05/2024 Analyzed: 04/06/2024					
1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.0007	98.7	70-130	1.27	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	99.8	70-130	1.79	20	
Acenaphthene	0.171	0.020	"	0.200	ND	85.6	70-130	1.24	20	
Anthracene	0.174	0.020	"	0.200	ND	87.1	70-130	1.12	20	
Benzo (a) anthracene	0.184	0.005	"	0.200	ND	91.8	70-130	0.943	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	109	70-130	1.80	20	
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.001	108	70-130	1.39	20	
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	0.001	103	70-130	6.83	20	
Benzo (k) fluoranthene	0.205	0.020	"	0.200	0.002	101	70-130	12.2	20	
Chrysene	0.188	0.020	"	0.200	ND	94.1	70-130	0.0979	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	0.002	109	70-130	1.04	20	
Fluoranthene	0.176	0.020	"	0.200	ND	88.0	70-130	0.0294	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 B4D0536 - EPA 3580

Matrix Spike Dup (B4D0536-MSD1)	Source: Y404179-01			Prepared: 04/05/2024 Analyzed: 04/06/2024						
Fluorene	0.175	0.020	mg/kg	0.200	ND	87.4	70-130	1.10	20	
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	ND	104	70-130	5.76	20	
Naphthalene	0.182	0.002	"	0.200	ND	90.9	70-130	2.17	20	
Phenanthrene	0.186	0.020	"	0.200	ND	93.0	70-130	0.308	20	
Pyrene	0.180	0.020	"	0.200	ND	89.9	70-130	0.894	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	190		"	200		95.6	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		117	60-130			

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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 B4D0540 - NO PREP

Blank (B4D0540-BLK1)

Prepared: 04/05/2024 Analyzed: 04/08/2024

Total Dissolved Solids ND 5.00 mg/L

LCS (B4D0540-BS1)

Prepared: 04/05/2024 Analyzed: 04/08/2024

Total Dissolved Solids 1010 5.00 mg/L 1040 97.3 90-110

Duplicate (B4D0540-DUP1)

Source: Y404187-01

Prepared: 04/05/2024 Analyzed: 04/08/2024

Total Dissolved Solids 1120 5.00 mg/L 1120 0.358 10

Batch B4D0605 - Saturated Paste Metals

Blank (B4D0605-BLK1)

Prepared: 04/06/2024 Analyzed: 04/08/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4D0605-DUP1)

Source: Y404131-01

Prepared: 04/06/2024 Analyzed: 04/08/2024

SAR ND 0.0100 SAR 5.15 200

Calcium PPM 518 10.0 mg/L 542 4.47 50

Magnesium PPM 284 10.0 " 306 7.27 50

Sodium PPM 576 10.0 " 604 4.80 50

Batch B4D0807 - DTPA Sorbitol Preparation

Blank (B4D0807-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron ND 0.100 mg/L

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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0807 - DTPA Sorbitol Preparation										
Duplicate (B4D0807-DUP1)		Source: Y404127-01			Prepared: 04/08/2024 Analyzed: 04/09/2024					
Boron	0.529	0.0998	mg/L		0.519			1.95	50	
Batch B4D0925 - Filter .45um non acidified										
Blank (B4D0925-BLK1)					Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4D0925-BS1)					Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	4.26	0.250	mg/L	4.00		107	90-110			
Sulfate	4.14	0.250	"	4.00		104	90-110			
Matrix Spike (B4D0925-MS1)		Source: Y404148-04			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	770		mg/L	500	317	90.6	90-110			
Sulfate	1220		"	500	836	76.9	90-110			QM-07
Matrix Spike Dup (B4D0925-MSD1)		Source: Y404148-04			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	778		mg/L	500	317	92.3	90-110	1.08	5	
Sulfate	1230		"	500	836	78.9	90-110	0.804	5	QM-07
Batch B4D0926 - Filter .45um non acidified										
Blank (B4D0926-BLK1)					Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							

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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0926 - Filter .45um non acidified										
LCS (B4D0926-BS1)					Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	3.71	0.250	mg/L	4.00		92.8	90-110			
Sulfate	4.12	0.250	"	4.00		103	90-110			
Matrix Spike (B4D0926-MS1)					Source: Y404191-10 Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	661		mg/L	500	201	92.1	90-110			
Sulfate	949		"	500	513	87.2	90-110			QM-07
Matrix Spike Dup (B4D0926-MSD1)					Source: Y404191-10 Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	658		mg/L	500	201	91.4	90-110	0.523	5	
Sulfate	951		"	500	513	87.7	90-110	0.259	5	QM-07

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D0615 - Saturated Paste pH/EC

Blank (B4D0615-BLK1)

Prepared: 04/06/2024 Analyzed: 04/08/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4D0615-DUP1)

Source: Y404131-01

Prepared: 04/06/2024 Analyzed: 04/08/2024

pH 7.75 pH Units 7.95 2.55 25

Specific Conductance (EC) 5.66 0.00500 mmhos/cm 6.03 6.40 25

Batch B4D1020 - Saturated Paste pH/EC

Duplicate (B4D1020-DUP1)

Source: Y403236-02

Prepared: 04/10/2024 Analyzed: 04/11/2024

pH 8.38 pH Units 8.56 2.13 25

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 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2600610 - SW846 3060A										
BLANK (1205710642-BLK)					Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	ND	0.352	mg/kg				-			U
LCS (1205710643-BKS)					Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	3.66	0.363	mg/kg	3.63		101	80-120			
DUP (1205710644 D)					Source: 663918007 Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	ND	0.382	mg/kg dry		<0.153		0-50	N/A	50	U
MS (1205710645 S)					Source: 663918007 Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	3.71	0.446	mg/kg dry	4.46	<0.178	83	75-125			
DUP (1205710646 D)					Source: 664071013 Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	ND	0.303	mg/kg dry		<0.121		0-50	N/A	50	U
MS (1205710647 S)					Source: 664071013 Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	3.37	0.374	mg/kg dry	3.74	<0.150	89.7	75-125			
ILCS (1205710648-ILCS)					Prepared: 04/23/2024 Analyzed: 04/25/2024					
Hexavalent Chromium	5.28	0.255	mg/kg	5.15		103	80-120			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2594781 - SW846 3060A										
BLANK (1205699478-BLK)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
LCS (1205699479-BKS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	3.77	0.383	mg/kg	3.83		98.5	80-120			
DUP (1205699480 D)					Source: 662211001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.414	mg/kg dry		<0.166		0-50	N/A	50	U
MS (1205699481 S)					Source: 662211001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	2.89	0.414	mg/kg dry	4.14	<0.166	67.4	75-125			
DUP (1205699482 D)					Source: Y404191-11 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.395	mg/kg dry		0.179		0-50	N/A	50	U
MS (1205699483 S)					Source: Y404191-11 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	0.791	0.395	mg/kg dry	3.95	0.179	15.5	75-125			
ILCS (1205699484-ILCS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	7.64	0.373	mg/kg	7.62		100	80-120			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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 Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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April 22, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - GNB W 31-3,4,5J,6 Facility Project Number - 09A1417648

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. April 11, 2024. This project is associated with Origins project number Y404349-01.

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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL08@3'	Y404349-01	Soil	April 11, 2024 14:05	04/11/2024 17:38
FL08@3'-V	Y404349-02	Soil	April 11, 2024 14:05	04/11/2024 17:38
FL09@2'	Y404349-03	Soil	April 11, 2024 14:20	04/11/2024 17:38
FL09@2'-V	Y404349-04	Soil	April 11, 2024 14:20	04/11/2024 17:38
FL10@3'	Y404349-05	Soil	April 11, 2024 15:25	04/11/2024 17:38
FL10@3'-V	Y404349-06	Soil	April 11, 2024 15:25	04/11/2024 17:38
FL11@3'	Y404349-07	Soil	April 11, 2024 15:30	04/11/2024 17:38
FL11@3'-V	Y404349-08	Soil	April 11, 2024 15:30	04/11/2024 17:38
FL08-GW@3'	Y404349-09	Water	April 11, 2024 14:15	04/11/2024 17:38
FL09-GW@2'	Y404349-10	Water	April 11, 2024 14:25	04/11/2024 17:38
NATIVE-BG02@3'	Y404349-11	Soil	April 11, 2024 16:00	04/11/2024 17:38
NATIVE-BG02@6'	Y404349-12	Soil	April 11, 2024 16:05	04/11/2024 17:38
BG02-GW@6'	Y404349-13	Water	April 11, 2024 16:10	04/11/2024 17:38
NATIVE-BG03@3'	Y404349-14	Soil	April 11, 2024 16:15	04/11/2024 17:38

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG03@6'	Y404349-15	Soil	April 11, 2024 16:20	04/11/2024 17:38
BG03-GW@6'	Y404349-16	Water	April 11, 2024 16:22	04/11/2024 17:38

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

ORIGINS
 LABORATORY, INC

1404349
 IMPACTED

www.originslaboratory.com

page 1 of 2

Client: Ensolum
 Address: _____
 Telephone Number: _____
 Email Address: KMG-Team
 Project Manager: Jeremy Espinoza
 Project Name: GNB W 31-3, 4, 5J, 6 Facility
 Project Number: O9A1417648
 Samples Collected By: JLE

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	
E108e31	4/11/24	1405	3	X							
E108e31-V		1405	1					X	Fullst pH		Hold for additional analysis
E109e21		1420	1					X			Hold for additional analysis
E109e21-V		1420	1					X			Hold for additional analysis
E110e31		1525	1					X			Hold for additional analysis
E110e31-V		1525	1					X			Hold for additional analysis
E111e31		1530	1					X			Hold for additional analysis
E111e31-V		1530	1					X			Hold for additional analysis
E112e31		1415	4					X			Hold for additional analysis
E112e31-V		1415	4					X			Hold for additional analysis
E112e31		1425	4					X			Hold for additional analysis
E112e31-V		1425	4					X			Hold for additional analysis
Relinquished By: <u>[Signature]</u>	Date: 4/11/24	Time: 1338	Received By: <u>[Signature]</u>	Date: 4/11/24	Time: 1338	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					

Temp Received: S.O

Date Results Needed

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
 Project Number: 09A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YU04349

Client: ENSOLUM

Client Project ID: GNB 31-31415J16

Checklist Completed by: EAD

Shipped Via: HO

Date/time completed: 4/11/12

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

Airbill #: N/A

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

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

Thermometer ID: TOAS

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

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

EAD
 Reviewed by (Project Manager)

4/11/12
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL08@3'

4/11/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0994	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1144	04/11/2024	04/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1145	04/11/2024	04/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL08@3'

4/11/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B4D11 45	04/11/2024	04/11/2024	
Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.21		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.43		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL08@3'

4/11/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	87.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	118 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	2.59		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.520		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL08@3'

4/11/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.64	0.256	mg/kg	10	B4D1142	04/11/2024	04/12/2024
Barium	42.1	8.84	"	"	"	"	"
Cadmium	0.114	0.0884	"	"	"	"	"
Copper	ND	8.84	"	"	"	"	"
Lead	6.41	0.884	"	"	"	"	"
Nickel	2.83	0.884	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.0884	"	"	"	"	"
Zinc	ND	32.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.149	0.373	mg/kg dry	1	2597961	04/16/2024	04/17/2024	U
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL08@3'-V

4/11/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-02 (Soil)

pH in Soil by 9045D

pH	8.22			pH Units	1	B4D1511	04/15/2024	04/16/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL09@2'

4/11/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1144	04/11/2024	04/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1145	04/11/2024	04/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL09@2'

4/11/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4D11 45	04/11/2024	04/11/2024	
Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.961		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.47		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL09@2'

4/11/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	83.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	121 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	2.89		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.496		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL09@2'

4/11/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.30		0.280	mg/kg	10	B4D1142	04/11/2024	04/12/2024	
Barium	26.4		9.64	"	"	"	"	"	
Cadmium	ND		0.0964	"	"	"	"	"	
Copper	ND		9.64	"	"	"	"	"	
Lead	4.29		0.964	"	"	"	"	"	
Nickel	1.64		0.964	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	
Silver	ND		0.0964	"	"	"	"	"	
Zinc	ND		35.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	0.109	0.0977	0.244	mg/kg dry	1	2598540	04/18/2024	04/19/2024	
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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL09@2'-V

4/11/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-04 (Soil)

pH in Soil by 9045D

pH	8.15			pH Units	1	B4D1511	04/15/2024	04/16/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL10@3'
4/11/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.273		0.0997	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1144	04/11/2024	04/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1145	04/11/2024	04/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL10@3'

4/11/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4D11 45	04/11/2024	04/11/2024	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.20	0.499	meq/L	10	[CALC]		04/12/2024	04/15/2024	
Magnesium	0.875	0.823	"	"	"	"	"	"	
Sodium	3.08	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1146		04/11/2024	04/11/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL10@3'

4/11/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	124 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.46			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	2.49		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.703		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL10@3'

4/11/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.38	0.260	mg/kg	10	B4D1142	04/11/2024	04/12/2024
Barium	72.3	8.97	"	"	"	"	"
Cadmium	0.196	0.0897	"	"	"	"	"
Copper	11.5	8.97	"	"	"	"	"
Lead	10.3	0.897	"	"	"	"	"
Nickel	5.14	0.897	"	"	"	"	"
Selenium	ND	0.233	"	"	"	"	"
Silver	0.0978	0.0897	"	"	"	"	"
Zinc	36.7	33.2	"	"	"	"	"

Total Metals by 7196A

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Hexavalent Chromium	ND	0.155	0.387	mg/kg dry	1	2597961	04/16/2024	04/17/2024
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Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL10@3'-V

4/11/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-06 (Soil)

pH in Soil by 9045D

pH	8.32			pH Units	1	B4D1511	04/15/2024	04/16/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL11@3'
 4/11/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404349-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.155		0.102	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1144	04/11/2024	04/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1145	04/11/2024	04/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL11@3'

4/11/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	109 %		70-130			B4D11 45	04/11/2024	04/11/2024	
Surrogate: 4-Bromofluorobenzene	90.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.886		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.600		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL11@3'

4/11/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-07 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1146	04/11/2024	04/11/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	124 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	0.771		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.211		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL11@3'

4/11/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404349-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.12	0.290	mg/kg	10	B4D1142	04/11/2024	04/12/2024
Barium	53.7	9.99	"	"	"	"	"
Cadmium	0.157	0.0999	"	"	"	"	"
Copper	ND	9.99	"	"	"	"	"
Lead	6.58	0.999	"	"	"	"	"
Nickel	3.86	0.999	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"
Silver	ND	0.0999	"	"	"	"	"
Zinc	ND	36.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.103	0.257	mg/kg dry	1	2598540	04/18/2024	04/19/2024
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Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

FL11@3'-V

4/11/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-08 (Soil)

pH in Soil by 9045D

pH	7.75			pH Units	1	B4D1511	04/15/2024	04/16/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL08-GW@3'

4/11/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-09 (Water)

Anions by IC 300.0

Chloride	223		31.2	mg/L	125	B4D1207	04/12/2024	04/15/2024	
Sulfate	423		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4D1138	04/11/2024	04/11/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1150		5.00	mg/L	1	B4D1217	04/12/2024	04/15/2024	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

FL09-GW@2'

4/11/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-10 (Water)

Anions by IC 300.0

Chloride	255		31.2	mg/L	125	B4D1207	04/12/2024	04/15/2024	
Sulfate	491		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4D1138	04/11/2024	04/11/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1450		5.00	mg/L	1	B4D1217	04/12/2024	04/15/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG02@3'
4/11/2024 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.218		0.101	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.34		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.16		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	3.20		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.593		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.51		0.277	mg/kg	10	B4D1142	04/11/2024	04/12/2024	
Barium	46.1		9.55	"	"	"	"	"	
Cadmium	0.289		0.0955	"	"	"	"	"	
Copper	11.3		9.55	"	"	"	"	"	

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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG02@3'
4/11/2024 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-11 (Soil)

Table 915 metals by EPA 6020B

Lead	11.8		0.955	mg/kg	10	B4D1142	04/11/2024	04/12/2024	
Nickel	4.01		0.955	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	
Silver	0.170		0.0955	"	"	"	"	"	
Zinc	39.7		35.3	"	"	"	"	"	

Total Metals by 7196A

U

Hexavalent Chromium	ND	0.160	0.401	mg/kg dry	1	2597961	04/16/2024	04/17/2024	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG02@6'
4/11/2024 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.674		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.75		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.94			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	2.45		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.307		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.55		0.259	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	29.0		8.93	"	"	"	"	"	
Cadmium	ND		0.0893	"	"	"	"	"	

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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG02@6'
4/11/2024 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.93	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	2.61		0.893	"	"	"	"	"	
Nickel	1.82		0.893	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0893	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

Total Metals by 7196A

U

Hexavalent Chromium	ND	0.136	0.341	mg/kg dry	1	2597961	04/16/2024	04/17/2024	
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

BG02-GW@6'

4/11/2024 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-13 (Water)

Anions by IC 300.0

Chloride	251		31.2	mg/L	125	B4D1207	04/12/2024	04/15/2024	
Sulfate	486		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1350		5.00	"	1	B4D1217	04/12/2024	04/15/2024	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG03@3'
4/11/2024 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0996	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.34		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.34		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	2.38		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.427		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.47		0.289	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	66.2		9.96	"	"	"	"	"	
Cadmium	ND		0.0996	"	"	"	"	"	

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG03@3'
4/11/2024 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-14 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.96	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	3.60		0.996	"	"	"	"	"	
Nickel	2.59		0.996	"	"	"	"	"	
Selenium	ND		0.259	"	"	"	"	"	
Silver	ND		0.0996	"	"	"	"	"	
Zinc	ND		36.9	"	"	"	"	"	

Total Metals by 7196A

U

Hexavalent Chromium	ND	0.166	0.416	mg/kg dry	1	2597961	04/16/2024	04/17/2024	
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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG03@6'
4/11/2024 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-15 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0996	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.32		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.06		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.27			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	3.14		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.598		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.69		0.279	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	43.3		9.63	"	"	"	"	"	
Cadmium	ND		0.0963	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

NATIVE-BG03@6'
4/11/2024 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-15 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.63	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	3.54		0.963	"	"	"	"	"	
Nickel	2.53		0.963	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	ND		35.6	"	"	"	"	"	

Total Metals by 7196A

U

Hexavalent Chromium	ND	0.150	0.376	mg/kg dry	1	2597961	04/16/2024	04/17/2024	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

BG03-GW@6'

4/11/2024 4:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404349-16 (Water)

Anions by IC 300.0

Chloride	229		31.2	mg/L	125	B4D1207	04/12/2024	04/15/2024	
Sulfate	419		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1550		5.00	"	1	B4D1217	04/12/2024	04/15/2024	
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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: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1138 - EPA 5030B (Water)

Blank (B4D1138-BLK1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	105		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.2		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1138 - EPA 5030B (Water)

LCS (B4D1138-BS1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	49.8	2.00	ug/L	50.0		99.6	70-130			
1,3,5-Trimethylbenzene	49.3	2.00	"	50.0		98.6	70-130			
Benzene	50.3	1.00	"	50.0		101	70-130			
Ethylbenzene	50.4	1.00	"	50.0		101	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
Naphthalene	50.7	2.00	"	50.0		101	70-130			
o-Xylene	51.3	1.00	"	50.0		103	70-130			
Toluene	47.2	1.00	"	50.0		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.7	70-130			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1138 - EPA 5030B (Water)

Matrix Spike (B4D1138-MS1)	Source: Y404311-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	50.2	2.00	ug/L	50.0	ND	100	70-130			
1,3,5-Trimethylbenzene	51.4	2.00	"	50.0	ND	103	70-130			
Benzene	50.5	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	52.4	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	45.3	2.00	"	50.0	0.440	89.7	70-130			
o-Xylene	53.0	1.00	"	50.0	ND	106	70-130			
Toluene	49.8	1.00	"	50.0	ND	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	70-130			

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1138 - EPA 5030B (Water)

Matrix Spike Dup (B4D1138-MSD1)	Source: Y404311-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	56.3	2.00	ug/L	50.0	ND	113	70-130	11.5	20	
1,3,5-Trimethylbenzene	55.8	2.00	"	50.0	ND	112	70-130	8.08	20	
Benzene	55.0	1.00	"	50.0	ND	110	70-130	8.49	20	
Ethylbenzene	57.0	1.00	"	50.0	ND	114	70-130	8.50	20	
m,p-Xylene	114	2.00	"	100	ND	114	70-130	8.97	20	
Naphthalene	55.9	2.00	"	50.0	0.440	111	70-130	20.9	20	QR-02
o-Xylene	57.5	1.00	"	50.0	ND	115	70-130	8.06	20	
Toluene	53.8	1.00	"	50.0	ND	108	70-130	7.64	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1144 - EPA 3550B										
Blank (B4D1144-BLK1)										
					Prepared: 04/11/2024 Analyzed: 04/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		99.0	50-150			

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

Jeremy Espinoza
Project Number: O9A1417648
Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1144 - EPA 3550B

LCS (B4D1144-BS1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

Diesel (C10-C28)	913	50.0	mg/kg	1000		91.3	70-130			
Residual Range Organics (C28-C40)	987	200	"	1000		98.7	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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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 B4D1144 - EPA 3550B

Matrix Spike (B4D1144-MS1)	Source: Y404349-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130			
Residual Range Organics (C28-C40)	938	200	"	1000	ND	93.8	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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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 B4D1144 - EPA 3550B

Matrix Spike Dup (B4D1144-MSD1)	Source: Y404349-01		Prepared: 04/11/2024 Analyzed: 04/11/2024							
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130	1.86	35	
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130	0.590	35	
<i>Surrogate: o-Terphenyl</i>	58		"	49.8		117	50-150			

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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 B4D1145 - EPA 5030 (soil)

Blank (B4D1145-BLK1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	115		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.5		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 B4D1145 - EPA 5030 (soil)

LCS (B4D1145-BS1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.0885	0.00200	"	0.100		88.5	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0860	0.00380	"	0.100		86.0	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	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 B4D1145 - EPA 5030 (soil)

Matrix Spike (B4D1145-MS1)	Source: Y404349-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	0.121	0.00200	mg/kg	0.100	0.000520	121	70-130			
1,3,5-Trimethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Benzene	0.114	0.00200	"	0.100	ND	114	70-130			
Ethylbenzene	0.120	0.00200	"	0.100	ND	120	70-130			
Naphthalene	0.0966	0.00380	"	0.100	0.00270	93.9	70-130			
Toluene	0.131	0.00200	"	0.100	ND	131	70-130			QM-07
o-Xylene	0.130	0.00200	"	0.100	ND	130	70-130			
m,p-Xylene	0.240	0.00400	"	0.200	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 B4D1145 - EPA 5030 (soil)

Matrix Spike Dup (B4D1145-MSD1)	Source: Y404349-01		Prepared: 04/11/2024 Analyzed: 04/11/2024							
1,2,4-Trimethylbenzene	0.128	0.00200	mg/kg	0.100	0.000520	127	70-130	5.02	20	
1,3,5-Trimethylbenzene	0.127	0.00200	"	0.100	ND	127	70-130	4.89	20	
Benzene	0.125	0.00200	"	0.100	ND	125	70-130	8.50	20	
Ethylbenzene	0.127	0.00200	"	0.100	ND	127	70-130	5.27	20	
Naphthalene	0.101	0.00380	"	0.100	0.00270	98.6	70-130	4.71	20	
Toluene	0.140	0.00200	"	0.100	ND	140	70-130	6.80	20	QM-07
o-Xylene	0.137	0.00200	"	0.100	ND	137	70-130	5.20	20	QM-07
m,p-Xylene	0.251	0.00400	"	0.200	ND	125	70-130	4.58	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	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
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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
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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 B4D1142 - EPA 3050B

Blank (B4D1142-BLK1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

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

LCS (B4D1142-BS1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	5.36	0.290	mg/kg	5.00		107	80-120			
Barium	532	10.0	"	500		106	80-120			
Cadmium	5.44	0.100	"	5.00		109	80-120			
Copper	56.2	10.0	"	50.0		112	80-120			
Lead	5.03	1.00	"	5.00		101	80-120			
Nickel	5.73	1.00	"	5.00		115	80-120			
Selenium	10.1	0.260	"	9.50		107	80-120			
Silver	5.23	0.100	"	5.00		105	80-120			
Zinc	53.0	37.0	"	50.0		106	80-120			

Matrix Spike (B4D1142-MS1)

Source: Y404345-01

Prepared: 04/11/2024 Analyzed: 04/12/2024

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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 B4D1142 - EPA 3050B

Matrix Spike (B4D1142-MS1)

Source: Y404345-01

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	5.45	0.249	mg/kg	4.29	1.29	96.9	75-125			
Barium	498	8.58	"	429	28.1	110	75-125			
Cadmium	5.08	0.0858	"	4.29	0.0596	117	75-125			
Copper	53.4	8.58	"	42.9	7.31	107	75-125			
Lead	6.73	0.858	"	4.29	6.79	NR	75-125			QM-07
Nickel	6.18	0.858	"	4.29	2.64	82.5	75-125			
Selenium	9.14	0.223	"	8.15	0.143	110	75-125			
Silver	4.85	0.0858	"	4.29	0.0220	112	75-125			
Zinc	54.9	31.7	"	42.9	19.1	83.5	75-125			

Matrix Spike Dup (B4D1142-MSD1)

Source: Y404345-01

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	5.75	0.254	mg/kg	4.38	1.29	102	75-125	5.39	20	
Barium	500	8.76	"	438	28.1	108	75-125	0.323	20	
Cadmium	5.12	0.0876	"	4.38	0.0596	116	75-125	0.924	20	
Copper	53.3	8.76	"	43.8	7.31	105	75-125	0.142	20	
Lead	6.88	0.876	"	4.38	6.79	1.96	75-125	2.21	20	QM-07
Nickel	6.58	0.876	"	4.38	2.64	90.0	75-125	6.25	20	
Selenium	9.69	0.228	"	8.32	0.143	115	75-125	5.83	20	
Silver	4.83	0.0876	"	4.38	0.0220	110	75-125	0.246	20	
Zinc	56.6	32.4	"	43.8	19.1	85.6	75-125	2.98	20	

Batch B4D1143 - EPA 3050B

Blank (B4D1143-BLK1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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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 B4D1143 - EPA 3050B

Blank (B4D1143-BLK1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

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

LCS (B4D1143-BS1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	5.40	0.290	mg/kg	5.00		108	80-120			
Barium	518	10.0	"	500		104	80-120			
Cadmium	5.40	0.100	"	5.00		108	80-120			
Copper	55.8	10.0	"	50.0		112	80-120			
Lead	5.11	1.00	"	5.00		102	80-120			
Nickel	5.61	1.00	"	5.00		112	80-120			
Selenium	10.4	0.260	"	9.50		110	80-120			
Silver	5.34	0.100	"	5.00		107	80-120			
Zinc	53.1	37.0	"	50.0		106	80-120			

Matrix Spike (B4D1143-MS1)

Source: Y404346-01

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	10.4	0.276	mg/kg	4.76	2.72	161	75-125			QM-07
Barium	682	9.52	"	476	82.5	126	75-125			QM-07
Cadmium	5.44	0.0952	"	4.76	0.295	108	75-125			
Copper	72.1	9.52	"	47.6	13.5	123	75-125			
Lead	20.8	0.952	"	4.76	23.0	NR	75-125			QM-07
Nickel	18.9	0.952	"	4.76	7.53	240	75-125			QM-07
Selenium	10.3	0.248	"	9.05	0.202	112	75-125			
Silver	4.93	0.0952	"	4.76	0.124	101	75-125			

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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
Batch B4D1143 - EPA 3050B										
Matrix Spike (B4D1143-MS1)		Source: Y404346-01			Prepared: 04/11/2024 Analyzed: 04/12/2024					
Zinc	133	35.2	mg/kg	47.6	45.9	183	75-125			QM-07
Matrix Spike Dup (B4D1143-MSD1)		Source: Y404346-01			Prepared: 04/11/2024 Analyzed: 04/12/2024					
Arsenic	10.4	0.272	mg/kg	4.69	2.72	164	75-125	0.0107	20	QM-07
Barium	682	9.38	"	469	82.5	128	75-125	0.00297	20	QM-07
Cadmium	5.41	0.0938	"	4.69	0.295	109	75-125	0.552	20	
Copper	70.4	9.38	"	46.9	13.5	121	75-125	2.32	20	
Lead	21.0	0.938	"	4.69	23.0	NR	75-125	1.15	20	QM-07
Nickel	19.2	0.938	"	4.69	7.53	248	75-125	1.10	20	QM-07
Selenium	9.81	0.244	"	8.91	0.202	108	75-125	5.01	20	
Silver	5.03	0.0938	"	4.69	0.124	105	75-125	1.94	20	
Zinc	135	34.7	"	46.9	45.9	190	75-125	1.28	20	QM-07

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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 B4D1146 - EPA 3580

Blank (B4D1146-BLK1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	170		"	200		86.9	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		117	60-130			

LCS (B4D1146-BS1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200		96.1	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		95.0	70-130			
Acenaphthene	0.164	0.020	"	0.200		82.2	70-130			
Anthracene	0.175	0.020	"	0.200		87.5	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 B4D1146 - EPA 3580

LCS (B4D1146-BS1)

Prepared: 04/11/2024 Analyzed: 04/11/2024

Benzo (a) anthracene	0.175	0.005	mg/kg	0.200		87.6	70-130			
Benzo (a) pyrene	0.220	0.020	"	0.200		110	70-130			
Benzo (b) fluoranthene	0.222	0.020	"	0.200		111	70-130			
Benzo (g,h,i) perylene	0.222	0.020	"	0.200		111	70-130			
Benzo (k) fluoranthene	0.194	0.020	"	0.200		97.0	70-130			
Chrysene	0.183	0.020	"	0.200		91.5	70-130			
Dibenz (a,h) anthracene	0.260	0.020	"	0.200		130	70-130			
Fluoranthene	0.152	0.020	"	0.200		76.1	70-130			
Fluorene	0.162	0.020	"	0.200		81.2	70-130			
Indeno (1,2,3-cd) pyrene	0.237	0.020	"	0.200		119	70-130			
Naphthalene	0.176	0.002	"	0.200		88.0	70-130			
Phenanthrene	0.174	0.020	"	0.200		86.9	70-130			
Pyrene	0.155	0.020	"	0.200		77.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	170		"	200		85.1	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		117	60-130			

Matrix Spike (B4D1146-MS1)

Source: Y404349-01

Prepared: 04/11/2024 Analyzed: 04/12/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	ND	91.3	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.7	70-130			
Acenaphthene	0.159	0.020	"	0.200	ND	79.4	70-130			
Anthracene	0.173	0.020	"	0.200	ND	86.5	70-130			
Benzo (a) anthracene	0.180	0.005	"	0.200	0.0005	89.7	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.002	107	70-130			
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	0.002	104	70-130			

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

Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1146 - EPA 3580

Matrix Spike (B4D1146-MS1)		Source: Y404349-01			Prepared: 04/11/2024 Analyzed: 04/12/2024					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.003	95.8	70-130			
Chrysene	0.187	0.020	"	0.200	0.0006	93.0	70-130			
Dibenz (a,h) anthracene	0.251	0.020	"	0.200	0.003	124	70-130			
Fluoranthene	0.155	0.020	"	0.200	0.0005	77.2	70-130			
Fluorene	0.156	0.020	"	0.200	0.002	77.0	70-130			
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200	0.003	111	70-130			
Naphthalene	0.162	0.002	"	0.200	ND	81.0	70-130			
Phenanthrene	0.181	0.020	"	0.200	ND	90.5	70-130			
Pyrene	0.160	0.020	"	0.200	ND	79.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	180		"	200		88.3	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		119	60-130			

Matrix Spike Dup (B4D1146-MSD1)		Source: Y404349-01			Prepared: 04/11/2024 Analyzed: 04/11/2024					
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.3	70-130	3.15	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.5	70-130	6.11	20	
Acenaphthene	0.164	0.020	"	0.200	ND	81.9	70-130	3.04	20	
Anthracene	0.173	0.020	"	0.200	ND	86.7	70-130	0.216	20	
Benzo (a) anthracene	0.181	0.005	"	0.200	0.0005	90.4	70-130	0.796	20	
Benzo (a) pyrene	0.225	0.020	"	0.200	ND	113	70-130	7.92	20	
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.002	107	70-130	0.00408	20	
Benzo (g,h,i) perylene	0.232	0.020	"	0.200	0.002	115	70-130	9.75	20	
Benzo (k) fluoranthene	0.210	0.020	"	0.200	0.003	104	70-130	7.86	20	
Chrysene	0.186	0.020	"	0.200	0.0006	92.7	70-130	0.372	20	
Dibenz (a,h) anthracene	0.260	0.020	"	0.200	0.003	128	70-130	3.18	20	
Fluoranthene	0.158	0.020	"	0.200	0.0005	78.6	70-130	1.76	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 B4D1146 - EPA 3580

Matrix Spike Dup (B4D1146-MSD1)	Source: Y404349-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
Fluorene	0.159	0.020	mg/kg	0.200	0.002	78.6	70-130	2.01	20	
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	0.003	117	70-130	4.50	20	
Naphthalene	0.166	0.002	"	0.200	ND	83.0	70-130	2.36	20	
Phenanthrene	0.174	0.020	"	0.200	ND	86.8	70-130	4.14	20	
Pyrene	0.163	0.020	"	0.200	ND	81.5	70-130	2.10	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		88.7	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

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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 B4D1204 - Saturated Paste Metals

Blank (B4D1204-BLK1)

Prepared: 04/12/2024 Analyzed: 04/15/2024

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

Duplicate (B4D1204-DUP1)

Source: Y404346-05

Prepared: 04/12/2024 Analyzed: 04/15/2024

SAR	ND	0.0100	SAR		10.4				200	
Calcium PPM	432	10.0	mg/L		428			0.884	50	
Magnesium PPM	215	10.0	"		223			3.64	50	
Sodium PPM	1030	10.0	"		1070			3.62	50	

Batch B4D1207 - Filter .45um non acidified

Blank (B4D1207-BLK1)

Prepared: 04/12/2024 Analyzed: 04/15/2024

Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							

LCS (B4D1207-BS1)

Prepared: 04/12/2024 Analyzed: 04/18/2024

Chloride	4.04	0.250	mg/L	4.00		101	90-110			
Sulfate	4.24	0.250	"	4.00		106	90-110			

Matrix Spike (B4D1207-MS1)

Source: Y404349-10

Prepared: 04/12/2024 Analyzed: 04/15/2024

Chloride	789		mg/L	500	255	107	90-110			
Sulfate	1070		"	500	491	115	90-110			QM-07

Matrix Spike Dup (B4D1207-MSD1)

Source: Y404349-10

Prepared: 04/12/2024 Analyzed: 04/15/2024

Chloride	775		mg/L	500	255	104	90-110	1.88	5	
Sulfate	1040		"	500	491	109	90-110	2.76	5	

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D1209 - DTPA Sorbitol Preparation										
Blank (B4D1209-BLK1)					Prepared: 04/12/2024 Analyzed: 04/16/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4D1209-DUP1)		Source: Y404346-04			Prepared: 04/12/2024 Analyzed: 04/16/2024					
Boron	0.0305	0.0998	mg/L		ND				50	
Batch B4D1217 - NO PREP										
Blank (B4D1217-BLK1)					Prepared: 04/12/2024 Analyzed: 04/15/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4D1217-BS1)		Source: Y404327-10			Prepared: 04/12/2024 Analyzed: 04/15/2024					
Total Dissolved Solids	938	5.00	mg/L	1040		90.2	90-110			
Duplicate (B4D1217-DUP1)		Source: Y404327-10			Prepared: 04/12/2024 Analyzed: 04/15/2024					
Total Dissolved Solids	2800	5.00	mg/L		2670			4.83	10	

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 Project: KMG - GNB W 31-3,4,5J,6 Facility

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 B4D1214 - Saturated Paste pH/EC

Blank (B4D1214-BLK1)

Prepared: 04/12/2024 Analyzed: 04/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4D1214-DUP1)

Source: Y404346-05

Prepared: 04/12/2024 Analyzed: 04/12/2024

Specific Conductance (EC) 5.63 0.00500 mmhos/cm 5.89 4.47 25

pH 8.10 pH Units 8.01 1.12 25

Batch B4D1511 - Saturated Paste pH/EC

Duplicate (B4D1511-DUP1)

Source: Y404339-01

Prepared: 04/15/2024 Analyzed: 04/16/2024

pH 8.26 pH Units 8.16 1.22 25

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2598540 - SW846 3060A										
BLANK (1205706929-BLK)					Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
LCS (1205706930-BKS)					Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	3.54	0.359	mg/kg	3.59		98.6	80-120			
DUP (1205706953 D)					Source: Y404349-03 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	0.109	0.244	mg/kg dry		0.109		0-50	0	50	J
MS (1205706954 S)					Source: Y404349-03 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	1.62	0.244	mg/kg dry	2.44	0.109	62	75-125			
DUP (1205706955 D)					Source: 663218002 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.355	mg/kg dry		<0.142		0-50	N/A	50	U
MS (1205706956 S)					Source: 663218002 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	1.69	0.355	mg/kg dry	3.55	<0.142	47.6	75-125			
ILCS (1205706990-ILCS)					Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	6.56	0.324	mg/kg	6.76		97.1	80-120			

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Jeremy Espinoza
 Project Number: O9A1417648
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2597961 - SW846 3060A										
BLANK (1205706012-BLK)					Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	ND	0.387	mg/kg				-			U
LCS (1205706013-BKS)					Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	3.51	0.352	mg/kg	3.52		99.7	80-120			
DUP (1205706014 D)					Source: Y404349-01 Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	ND	0.373	mg/kg dry		<0.149		0-50	N/A	50	U
MS (1205706015 S)					Source: Y404349-01 Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	2.96	0.405	mg/kg dry	4.05	<0.162	72.1	75-125			
DUP (1205706016 D)					Source: 663203005 Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	ND	0.404	mg/kg dry		<0.161		0-50	N/A	50	U
MS (1205706017 S)					Source: 663203005 Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	2.04	0.362	mg/kg dry	3.62	<0.145	52.8	75-125			
ILCS (1205706018-ILCS)					Prepared: 04/16/2024 Analyzed: 04/17/2024					
Hexavalent Chromium	5.27	0.256	mg/kg	5.33		98.9	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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 Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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