

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
JUNCTION 11, 12, 22-2 O SA 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								
AST01 @0.5'	3/30/2023	0.5	0.4	NS	NO	40.16704987	-104.9754278	Y
AST01 Base	3/30/2023	0.5	0.3	NS	NO	40.16704852	-104.9754549	N
AST01 Loadout	3/30/2023	0.5	0.2	NS	NO	40.16704132	-104.9754792	N
AST02 @0.5'	3/30/2023	0.5	0.5	NS	NO	40.16704731	-104.9753643	Y
AST02 Base	3/30/2023	0.5	0.3	NS	NO	40.16704929	-104.9753905	N
AST02 Loadout	3/30/2023	0.5	0.2	NS	NO	40.1670484	-104.9754182	N
AST03 @2'	3/30/2023	2	40.0	NS	NO	40.16710052	-104.9753911	Y
AST03 Hatch	3/30/2023	2	0.2	NS	NO	40.167104	-104.975365	N
AST03 Loadout	3/30/2023	2	0.2	NS	NO	40.16710116	-104.9754179	N
N01 @4'	6/29/2023	4	1.3	NS	NO	40.167924	-104.975417	Y
E01 @4'	6/29/2023	4	0.0	NS	NO	40.167924	-104.975361	Y
E02 @4'	6/29/2023	4	0.0	NS	NO	40.167924	-104.97536	Y
E03 @4'	6/29/2023	4	0.0	NS	NO	40.167071	-104.975367	Y
W01 @4'	6/29/2023	4	0.0	Stain	NO	40.167924	-104.975457	Y
W02 @4'	6/29/2023	4	0.0	NS	NO	40.167924	-104.975477	Y
S01 @4'	6/29/2023	4	1.0	NS	NO	40.167056	-104.975443	Y
B01 @6'	6/29/2023	6	0.0	NS	NO	40.167924	-104.975415	Y
B02 @6'	6/29/2023	6	0.0	NS	NO	40.167924	-104.975399	Y
B03 @6'	6/29/2023	6	0.0	NS	NO	40.167062	-104.975387	Y
B04 @8'	7/24/2023	8	7.2	NS	NO	40.167924	-104.97543	Y
B05 @8'	7/24/2023	8	3.8	NS	NO	40.167924	-104.975392	Y
E04 @6'	7/24/2023	6	9.4	NS	NO	40.16711542	-104.975332	Y
PRODUCED WATER VESSEL SAMPLES								
PWV-B01 @6'	3/30/2023	6	0.1	NS	NO	40.1670997	-104.9754565	Y
PWV-N01 @3'	3/30/2023	3	0.4	NS	NO	40.16711449	-104.9754581	Y
PWV E Wall	3/30/2023	3	0.2	NS	NO	40.16709987	-104.9754388	N
PWV S Wall	3/30/2023	3	0.2	NS	NO	40.16708693	-104.9754566	N
PWV W Wall	3/30/2023	3	0.0	NS	NO	40.16709968	-104.9754747	N
SEPARATOR SAMPLES								
Sep01-Inlet @4'	3/30/2023	4	1.1	NS	NO	40.16727702	-104.9760596	Y
Sep02-Inlet @4'	3/30/2023	4	0.0	NS	NO	40.16727791	-104.9759571	Y
Sep02-Outlet @3.5'	3/30/2023	3.5	0.0	NS	NO	40.16727795	-104.9759194	Y
SEP02-N01 @2'	7/24/2023	2	5.0	NS	NO	40.16729338	-104.9759189	Y
SEP02-E01 @2'	7/24/2023	2	233.1	NS	Odor	40.16727328	-104.9758875	Y

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WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
SEPARATOR SAMPLES								
SEP02-S01 @2'	7/24/2023	2	12.5	NS	NO	40.16725365	-104.9759008	Y
SEP02-W01 @2'	7/24/2023	2	4.4	NS	NO	40.1672802	-104.9759368	Y
SEP02-B01 @4'	7/24/2023	4	7.4	NS	NO	40.167925	-104.975926	Y
FLOWLINE POTHOLE SAMPLES								
PH01	3/30/2023	4	0.0	NS	NO	40.16726822	-104.9755857	N
FL01 @4'	3/30/2023	4	987.0	NS	Odor	40.16726756	-104.9754149	Y
PH03 @4'	6/29/2023	4	0.0	NS	NO	40.167925	-104.975794	N
FL01-N01 @4'	7/24/2023	4	389.3	NS	Odor	40.167924	-104.975492	Y
FL01-N02 @4'	7/24/2023	4	1253.0	Stain	Odor	40.1673059	-104.9754201	Y
FL01-E01 @4'	7/24/2023	4	4.3	NS	NO	40.167924	-104.975394	Y
FL01-S01 @4'	7/24/2023	4	8.9	NS	NO	40.167924	-104.975494	Y
FL01-S02 @4'	7/24/2023	4	3.0	NS	NO	40.167924	-104.975426	Y
FL01-W01 @4'	7/24/2023	4	3.9	Stain	NO	40.167924	-104.975532	Y
FL01-B01 @6'	7/24/2023	6	29.8	NS	NO	40.167924	-104.975484	Y
FL01-B02 @6'	7/24/2023	6	89.3	NS	NO	40.167924	-104.975447	Y
MISCELLANEOUS SAMPLES								
MH INLET	3/30/2023	0.5	0.0	NS	NO	40.16714533	-104.9755518	N
ECD	3/30/2023	2	0.0	NS	NO	40.16728178	-104.9757045	N
BACKGROUND SOIL SAMPLES								
TB-BG01 @0.5'	3/30/2023	0.5	0.2	NS	NO	40.16702356	-104.9753522	Y
Native-BG01 @3' (Rem No. 27343)	3/23/2023	3	0.0	NS	NO	40.16707406	-104.9757116	Y
Native-BG01 @6' (Rem No. 27343)	3/23/2023	6	0.0	NS	NO	40.16707406	-104.9757116	Y
Native-BG02 @3' (Rem No. 27343)	3/23/2023	3	0.0	NS	NO	40.16693379	-104.9759466	Y
Native-BG02 @6' (Rem No. 27343)	3/23/2023	6	0.0	NS	NO	40.16693379	-104.9759466	Y
Native-BG03 @3' (Rem No. 27343)	3/23/2023	3	0.0	NS	NO	40.16708531	-104.9761329	Y
Native-BG03 @6' (Rem No. 27343)	3/23/2023	6	0.0	NS	NO	40.16708531	-104.9761329	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
JUNCTION 11, 12, 22-2 O SA 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)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01 @0.5'	3/30/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
AST02 @0.5'	3/30/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
AST03 @2'	3/30/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.0256	0.0124	0.00494	<0.00380
N01 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
E01 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
E02 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
E03 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
S01 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
W01 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
W02 @4'	6/29/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
B01 @6'	6/29/2023	6	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
B02 @6'	6/29/2023	6	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
B03 @6'	6/29/2023	6	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00200
B04 @8'	7/24/2023	8	NA	NA	NA	NA	NA	NA	NA	<0.00200	NA	<0.00200
B05 @8'	7/24/2023	8	NA	NA	NA	NA	NA	NA	NA	<0.00200	NA	<0.00200
E04 @6'	7/24/2023	6	NA	NA	NA	NA	NA	NA	NA	<0.00200	NA	<0.00200
PRODUCED WATER VESSEL SAMPLES												
PWV-B01 @6'	3/30/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00372	<0.00200	<0.00200	<0.00201
PWV-N01 @3'	3/30/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR SAMPLES												
Sep01-Inlet @4'	3/30/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Sep02-Inlet @4'	3/30/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Sep02-Outlet @3.5'	3/30/2023	3.5	<0.200	<25.0	<100	0.00572	0.00810	<0.00200	0.00596	<0.00200	<0.00200	<0.00380
SEP02-N01 @2'	7/24/2023	2	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	<0.00200
SEP02-E01 @2'	7/24/2023	2	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	<0.00200
SEP02-S01 @2'	7/24/2023	2	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	<0.00200
SEP02-W01 @2'	7/24/2023	2	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	<0.00200
SEP02-B01 @4'	7/24/2023	4	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	<0.00200
FLOWLINE POTHOLE SAMPLES												
FL01 @4'	3/30/2023	4	1030	6320	2870	0.0128	0.00642	0.0210	17.6	27.8	0.398	0.997
FL01-N01 @4'	7/24/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA
FL01-N02 @4'	7/24/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	0.00762	0.0170	0.0177	NA	NA
FL01-E01 @4'	7/24/2023	4	1.67	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA
FL01-S01 @4'	7/24/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA
FL01-S02 @4'	7/24/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA
FL01-W01 @4'	7/24/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA
FL01-B01 @6'	7/24/2023	6	1.54	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA
FL01-B02 @6'	7/24/2023	6	20.9	40.5	<100	<0.00200	<0.00200	0.0236	0.0157	0.326	NA	NA

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
JUNCTION 11, 12, 22-2 O SA 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)
Groundwater Protection Values (GPV)			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'	3/30/2023	0.5	0.000503	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00173	<0.00067	<0.00067	0.0011	<0.00067	<0.00201	0.00218	<0.00067
AST02@0.5'	3/30/2023	0.5	0.000427	<0.00067	0.000519	0.000966	0.000693	<0.00067	0.00186	<0.00067	0.00103	0.00114	0.000718	<0.00201	0.00207	0.00119
AST03@2'	3/30/2023	2	0.000354	<0.00067	<0.00067	0.000715	<0.00067	0.000772	0.00107	<0.00067	0.000532	0.000537	<0.00067	0.00238	0.00442	<0.00067
N01@4'	6/29/2023	4	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
E01@4'	6/29/2023	4	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
E02@4'	6/29/2023	4	<0.02000	<0.02000	0.014	<0.02000	0.029	0.026	0.024	<0.02000	0.023	<0.02000	0.020	<0.00200	<0.00200	<0.02000
E03@4'	6/29/2023	4	<0.02000	<0.02000	0.006	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
S01@4'	6/29/2023	4	<0.02000	<0.02000	0.006	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
W01@4'	6/29/2023	4	<0.02000	<0.02000	0.010	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
W02@4'	6/29/2023	4	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
B01@6'	6/29/2023	6	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
B02@6'	6/29/2023	6	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
B03@6'	6/29/2023	6	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
B04@8'	7/24/2023	8	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
B05@8'	7/24/2023	8	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.00200	<0.02000
E04@6'	7/24/2023	6	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	0.013	<0.02000
PRODUCED WATER VESSEL SAMPLES																
PWV-B01@6'	3/30/2023	6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
PWV-N01@3'	3/30/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
SEPARATOR SAMPLES																
Sep01-Inlet@4'	3/30/2023	4	0.00146	0.000408	0.000861	0.000898	0.00052	<0.00067	0.00432	<0.00067	0.00174	0.00397	0.000698	0.00298	0.00544	0.00306
Sep02-Inlet@4'	3/30/2023	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
Sep02-Outlet@3.5'	3/30/2023	3.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
SEP02-N01@2'	7/24/2023	2	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	0.002	<0.02000
SEP02-E01@2'	7/24/2023	2	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.02000	<0.02000
SEP02-S01@2'	7/24/2023	2	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.02000	<0.02000
SEP02-W01@2'	7/24/2023	2	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.02000	<0.02000
SEP02-B01@4'	7/24/2023	4	<0.02000	<0.02000	<0.00500	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.00200	<0.02000	<0.02000
FLOWLINE POTHOLE SAMPLES																
FL01@4'	3/30/2023	4	0.0922	<0.0134	0.0505	<0.0134	<0.0134	<0.0134	0.113	<0.0134	0.0191	0.536	<0.0134	2.44	4.66	0.0598
FL01-N01@4'	7/24/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-N02@4'	7/24/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-E01@4'	7/24/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-S01@4'	7/24/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-S02@4'	7/24/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-W01@4'	7/24/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-B01@6'	7/24/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-B02@6'	7/24/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
JUNCTION 11, 12, 22-2 O SA 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)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
ABOVEGROUND STORAGE TANK SAMPLES						
AST01@0.5'	3/30/2023	0.5	0.361	1.00	8.11	0.178
AST02@0.5'	3/30/2023	0.5	0.409	0.902	8.06	0.297
AST03@2'	3/30/2023	2	0.562	0.77	8.03	0.407
N01@4'	6/29/2023	4	NA	NA	NA	1.01
E01@4'	6/29/2023	4	NA	NA	NA	1.17
E02@4'	6/29/2023	4	NA	NA	NA	1.67
E03@4'	6/29/2023	4	NA	NA	NA	1.25
S01@4'	6/29/2023	4	NA	NA	NA	0.599
W01@4'	6/29/2023	4	NA	NA	NA	2.00
W02@4'	6/29/2023	4	NA	NA	NA	0.931
B01@6'	6/29/2023	6	NA	NA	NA	0.539
B02@6'	6/29/2023	6	NA	NA	NA	0.166
B03@6'	6/29/2023	6	NA	NA	NA	0.195
B04@8'	7/24/2023	8	NA	NA	NA	0.413
B05@8'	7/24/2023	8	NA	NA	NA	0.162
E04@6'	7/24/2023	6	NA	NA	NA	2.11
PRODUCED WATER VESSEL SAMPLES						
PWV-B01@6'	3/30/2023	6	0.096	0.274	7.53	<0.0992
PWV-N01@3'	3/30/2023	3	0.0720	0.158	7.41	<0.989
SEPARATOR SAMPLES						
Sep01-Inlet@4'	3/30/2023	4	0.510	0.323	7.97	<0.0984
Sep02-Inlet@4'	3/30/2023	4	0.719	1.18	8.02	1.10
Sep02-Outlet@3.5'	3/30/2023	3.5	1.910	1.17	7.80	1.14
SEP02-N01@2'	7/24/2023	2	NA	NA	NA	2.21
SEP02-E01@2'	7/24/2023	2	NA	NA	NA	1.00
SEP02-S01@2'	7/24/2023	2	NA	NA	NA	2.80
SEP02-W01@2'	7/24/2023	2	NA	NA	NA	1.18
SEP02-B01@4'	7/24/2023	4	NA	NA	NA	0.925
FLOWLINE SAMPLES SAMPLES						
FL01@4'	3/30/2023	4	3.130	17.4	7.52	2.21
FL01-N01@4'	7/24/2023	4	NA	17.0	NA	0.792
FL01-N02@4'	7/24/2023	4	NA	18.9	NA	0.308
FL01-E01@4'	7/24/2023	4	NA	7.55*	NA	0.991
FL01-S01@4'	7/24/2023	4	NA	14.8	NA	0.961
FL01-S02@4'	7/24/2023	4	NA	9.74	NA	0.554
FL01-W01@4'	7/24/2023	4	NA	5.27	NA	1.85
FL01-B01@6'	7/24/2023	6	NA	3.79	NA	1.06
FL01-B02@6'	7/24/2023	6	NA	5.74	NA	0.423
BACKGROUND SAMPLES						
TB-BG01@0.5'	3/30/2023	0.5	0.564	0.898	7.97	0.248

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
JUNCTION 11, 12, 22-2 O SA 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)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
BACKGROUND SAMPLES						
Native-BG01 @3' (Rem No. 27343)	3/23/2023	3	4.48	3.36	7.79	0.989
Native-BG01 @6' (Rem No. 27343)	3/23/2023	6	4.15	3.48	7.86	1.67
Native-BG02 @3' (Rem No. 27343)	3/23/2023	3	4.34	3.57	8.07	0.956
Native-BG02 @6' (Rem No. 27343)	3/23/2023	6	4.91	5.58	7.98	0.766
Native-BG03 @3' (Rem No. 27343)	3/23/2023	3	3.25	2.82	8.05	0.677
Native-BG03 @6' (Rem No. 27343)	3/23/2023	6	6.09	8.93	8.21	1.69

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth	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)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ABOVEGROUND STORAGE TANK SAMPLES												
AST01 @0.5'	3/30/2023	0.5	3.75*	56.1	0.105	<0.514	9.52	<8.45	9.10	<0.0845	<0.0845	<84.5
AST02 @0.5'	3/30/2023	0.5	3.45*	93.8*	0.142	<1.01	10.9	<9.14	9.91	0.124	<0.0914	<91.4
AST03 @2'	3/30/2023	2	3.00*	99.6*	0.113	<2.58	10.4	<9.14	10.8	0.134	<0.0914	<91.4
N01 @4'	6/29/2023	4	4.36*	150*	0.187	NA	16.4	NA	14.9	0.203	NA	NA
E01 @4'	6/29/2023	4	4.39*	188*	0.195	NA	17.6	NA	16.7	0.195	NA	NA
E02 @4'	6/29/2023	4	3.40*	110*	0.184	NA	12.7	NA	12.5	0.227	NA	NA
E03 @4'	6/29/2023	4	4.14*	135*	0.216	NA	15.2	NA	14.0	0.262*	NA	NA
S01 @4'	6/29/2023	4	3.64*	112*	0.143	NA	12.1	NA	12.4	0.138	NA	NA
W01 @4'	6/29/2023	4	3.98*	158*	0.222	NA	14.7	NA	13.4	0.201	NA	NA
W02 @4'	6/29/2023	4	4.32	163*	0.202	NA	12.1	NA	12.0	0.180	NA	NA
B01 @6'	6/29/2023	6	3.98*	181*	0.193	NA	12.7	NA	15.2	0.161	NA	NA
B02 @6'	6/29/2023	6	5.50	133*	<0.0998	NA	16.6	NA	18.2	0.147	NA	NA
B03 @6'	6/29/2023	6	3.44*	105*	<0.0853	NA	12.9	NA	14.3	0.117	NA	NA
B04 @8'	7/24/2023	8	2.06*	61.7	0.0959	NA	<9.59	NA	<9.59	0.115	NA	NA
B05 @8'	7/24/2023	8	1.44*	37.9	<0.0885	NA	<8.85	NA	<8.85	<0.0885	NA	NA
E04 @6'	7/24/2023	6	3.25*	161*	0.235	NA	13.7	NA	12.4	0.199	NA	NA
PRODUCED WATER VESSEL SAMPLES												
PWV-B01 @6'	3/30/2023	6	2.37*	26.0	0.115	<0.5	<9.23	<9.23	<9.23	0.310	<0.0923	<92.3
PWV-N01 @3'	3/30/2023	3	1.54*	26.4	<0.0941	<0.5	<9.41	<9.41	<9.41	<0.0941	<0.0941	<94.1
SEPARATOR SAMPLES												
Sep01-Inlet @4'	3/30/2023	4	2.95*	50.9	0.223	<0.5	<8.63	<8.63	<8.63	0.112	<0.0863	<86.3
Sep02-Inlet @4'	3/30/2023	4	4.48*	133*	0.269	<2.52	16.7	14.0	14.9	0.209	<0.0848	<84.8
Sep02-Outlet @3.5'	3/30/2023	3.5	3.73*	146*	0.230	<2.5	14.5	13.5	13.7	0.192	<0.0966	<96.6
SEP02-N01 @2'	7/24/2023	2	3.10*	153*	0.258	NA	14.8	13.0	13.1	0.171	NA	NA
SEP02-E01 @2'	7/24/2023	2	3.44*	155*	0.126	NA	13.0	9.2	12.0	0.246	NA	NA
SEP02-S01 @2'	7/24/2023	2	3.35*	168*	0.299	NA	17.3	15.6	14.6	0.292	NA	NA
SEP02-W01 @2'	7/24/2023	2	4.09*	150*	0.218	NA	13.9	12.7	11.8	0.155	NA	NA
SEP02-B01 @4'	7/24/2023	4	4.91*	201*	0.247	NA	16.4	11.7	14.8	0.208	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01 @4'	3/30/2023	4	5.22*	172*	0.157	<1	18.2	12.3	20.2	0.140	<0.0911	<91.1
FL01-N01 @4'	7/24/2023	4	2.89*	71.0	<0.0972	NA	<9.72	<9.72	<9.72	0.110	NA	NA
FL01-N02 @4'	7/24/2023	4	4.32*	206*	0.280	NA	18.5	11.0	29.2	0.115	NA	NA
FL01-E01 @4'	7/24/2023	4	2.67*	95.6*	0.122	NA	9.88	<9.26	10.3	0.150	NA	NA
FL01-S01 @4'	7/24/2023	4	3.82*	130*	0.164	NA	39.0	14.2*	18.7	0.160	NA	NA
FL01-S02 @4'	7/24/2023	4	3.43*	129*	0.111	NA	16.6	10.9	15.5	0.117	NA	NA
FL01-W01 @4'	7/24/2023	4	3.24*	128*	0.201	NA	11.7	10.7	10.8	0.148	NA	NA
FL01-B01 @6'	7/24/2023	6	2.51*	121*	0.210	NA	11.8	11.1	10.7	0.144	NA	NA
FL01-B02 @6'	7/24/2023	6	1.79*	58.0	<0.0936	NA	<9.36	<9.36	<9.36	<0.0936	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth	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)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BACKGROUND SAMPLES												
TB-BG01 @0.5'	3/30/2023	0.5	3.04	37.2	<0.0929	<1	<9.29	<9.29	<9.29	0.0966	<0.0929	<92.9
Native-BG01 @3' (Rem No. 27343)	3/23/2023	3	5.21	117	0.144	<0.517	10.9	31.7	11.6	0.188	<0.0959	<95.9
Native-BG01 @6' (Rem No. 27343)	3/23/2023	6	4.18	165	0.235	<2.5	16.7	12.5	15.9	0.262	<0.0928	<92.8
Native-BG02 @3' (Rem No. 27343)	3/23/2023	3	2.77	52.5	<0.0894	<2.59	<8.94	<8.94	<8.94	0.132	<0.0894	<89.4
Native-BG02 @6' (Rem No. 27343)	3/23/2023	6	3.49	93.3	0.114	<2.5	9.88	<9.44	10.1	0.170	<0.0944	<94.4
Native-BG03 @3' (Rem No. 27343)	3/23/2023	3	5.40	230	0.222	<2.5	19.0	13.5	22.7	0.192	<0.0887	<88.7
Native-BG03 @6' (Rem No. 27343)	3/23/2023	6	3.32	101	<0.0929	<2.53	20.5	12.4	13.0	0.206	0.114	<92.9

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

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

*Exceeds Table 915-1 allowable level but below background.

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
JUNCTION 11,12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		5	560	700	1400	140	67	67	NA	250,000	250,000	
AST-GW01	6/29/2023	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,490,000	126,000	700,000	6.0
AST03-GW01	7/24/2023	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,430,000	114,000	574,000	7.0
FL01-GW01	7/24/2023	<1.00	<1.00	<1.00	<1.00	<2.00	3.87	<2.00	1,590,000	160,000	777,000	5.0

Notes: ECMC - Energy and Carbon Management Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

µg/L - micrograms per liter

< - less than laboratory reporting limit

Excavation groundwater depth is approximate

April 20, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Junction 11,12,22-2 O SA Facility **Project Number - 09A1417263**

Attached are your analytical results for KMG - Junction 11,12,22-2 O SA Facility received by Origins Laboratory, Inc. March 31, 2023. This project is associated with Origins project number Y303804-01.

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV-B01@6'	Y303804-01	Soil	March 30, 2023 16:00	03/31/2023 08:58
PWV-N01@3'	Y303804-02	Soil	March 30, 2023 16:05	03/31/2023 08:58
AST01@0.5'	Y303804-03	Soil	March 30, 2023 16:10	03/31/2023 08:58
AST02@0.5'	Y303804-04	Soil	March 30, 2023 16:15	03/31/2023 08:58
AST03@2'	Y303804-05	Soil	March 30, 2023 16:20	03/31/2023 08:58
SEP01-INLET@4'	Y303804-06	Soil	March 30, 2023 16:25	03/31/2023 08:58
SEP02-INLET@4'	Y303804-07	Soil	March 30, 2023 16:30	03/31/2023 08:58
SEP02-OUTLET@3.5'	Y303804-08	Soil	March 30, 2023 16:35	03/31/2023 08:58
FL01@4'	Y303804-09	Soil	March 30, 2023 16:40	03/31/2023 08:58
TB-BG01@0.5'	Y303804-10	Soil	March 30, 2023 16:45	03/31/2023 08:58

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.

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

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4303804 page 1 of 1

Client: Ensolum LLC

Address:

Telephone Number:

Email Address:

Project Manager: Jeremy Espinoza

Project Name: Junction 11,12,22-2 OSA Facility

Project Number: 09A1417263

Samples Collected By: Glenn Thompson

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Soil	Groundwater	Full Table 915-1	BTEXN	1,2,4-/1,3,5-TMB	THI-GRO/DECHORO	TC/ptd/A/B/Bion (SP)	Sample Instructions
PWV-Bo1+6'	3-30-23	1600	2	X				X	X	X	X	Full q15 added to 1 all samples except 2 to Boreas mbrs only per the email sent on 4/13/23 4/6
PWV-No1+3'		1605	2									
AST01+0.5'		1610	2									
AST02+0.5'		1615	2									
AST03+2'		1620	2									
Depol-1a1e+4'		1625	2									
Sep02-1a1e+4'		1630	2									
Sep02-1a1e+3.5'		1635	2									
FL01+4'		1640	2									
TB-B001+0.5'		1645	2									
Relinquished By:	Date: 3/3/23	Time: 8:58	Received By: JEM	Date: 3-31-23	Time: 8:58	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"/>						

Date Results Needed: 3.30

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4303803

Client: ENSOLUM

Client Project ID: Junction 11,12,22-2 O S

Checklist Completed by: EHC

Shipped Via: HD

Date/time completed: 3/31/23

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

Airbill #: NA

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

Cooler Number/Temperature: 1 13.3 °C °C °C °C

Thermometer ID: T004

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

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

Sam Hunter
Reviewed by (Project Manager)

3/31/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'
3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'
3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	86.5 %	70-130	B3C31 28	03/31/2023	03/31/2023
Surrogate: Toluene-d8	91.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'

3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L674189	04/05/2023	04/06/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.53	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.274	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0964	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	2.37	0.0923	mg/kg	10	B3D0334	04/03/2023	04/04/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'

3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-01 (Soil)

Table 915 metals by EPA 6020B

Barium	26.0	9.23	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	0.115	0.0923	"	"	"	"	"
Copper	ND	9.23	"	"	"	"	"
Lead	ND	9.23	"	"	"	"	"
Nickel	ND	9.23	"	"	"	"	"
Selenium	0.310	0.0923	"	"	"	"	"
Silver	ND	0.0923	"	"	"	"	"
Zinc	ND	92.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L674313	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-N01@3'
3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.989	mg/L	10	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.7 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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	0.00372	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-N01@3'

3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130	B3C31 28	03/31/2023	03/31/2023
Surrogate: Toluene-d8	92.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-N01@3'

3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-02 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.41	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.158	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0720	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	1.54	0.0941	mg/kg	10	B3D0334	04/03/2023	04/04/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-N01@3'
3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-02 (Soil)

Table 915 metals by EPA 6020B

Barium	26.4	9.41	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	ND	0.0941	"	"	"	"	"
Copper	ND	9.41	"	"	"	"	"
Lead	ND	9.41	"	"	"	"	"
Nickel	ND	9.41	"	"	"	"	"
Selenium	ND	0.0941	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	ND	94.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L674313	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.178	0.100	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.8 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	92.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.44		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	0.960		0.823	"	"	"	"	"	
Sodium	1.10		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	0.00218	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000503	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00173	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-03 (Soil)

PAH by 8270D SIM

Fluorene	0.0011	0.000286	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.11	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	1.00	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.361	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.75	0.0845	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	56.1	8.45	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.105		0.0845	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Copper	9.52		8.45	"	"	"	"	"	
Lead	ND		8.45	"	"	"	"	"	
Nickel	9.10		8.45	"	"	"	"	"	
Selenium	ND		0.0845	"	"	"	"	"	
Silver	ND		0.0845	"	"	"	"	"	
Zinc	ND		84.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L674313	03/30/2023	04/05/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'
3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.297	0.0985	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'
3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.9 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	91.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.04		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	1.20		0.823	"	"	"	"	"	
Sodium	1.15		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	0.00207	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000427	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000519	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000966	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000693	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00186	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00103	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'

3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y303804-04 (Soil)

PAH by 8270D SIM

Fluorene	0.00114	0.000286	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023	
Indeno(1,2,3-cd)pyrene	0.000718	0.000627	0.00067	"	"	"	"	"	
Pyrene	0.00119	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	48.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.06	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.902	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.409	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.45	0.0914	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	93.8	9.14	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'
3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.142		0.0914	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Copper	10.9		9.14	"	"	"	"	"	
Lead	ND		9.14	"	"	"	"	"	
Nickel	9.91		9.14	"	"	"	"	"	
Selenium	0.124		0.0914	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		91.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	1	L674313	03/30/2023	04/05/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.407	0.0988	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0124	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	
1,3,5-Trimethylbenzene	0.00494	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0256	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.7 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.9 %	70-130	B3C31 28	03/31/2023	03/31/2023
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.66	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	1.82	0.823	"	"	"	"	"
Sodium	1.14	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00238	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023
2-Methylnaphthalene	0.00442	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000354	0.000304	0.00067	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000772	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000715	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00107	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000532	0.000394	0.00067	"	"	"	"	J
Fluorene	0.000537	0.000286	0.00067	"	"	"	"	J

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	46.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.03	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.765	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.562	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.00	0.0914	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	99.6	9.14	"	"	"	"	"
Cadmium	0.113	0.0914	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-05 (Soil)

Table 915 metals by EPA 6020B

Copper	10.4		9.14	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Lead	ND		9.14	"	"	"	"	"	
Nickel	10.8		9.14	"	"	"	"	"	
Selenium	0.134		0.0914	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		91.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.26	2.58	mg/Kg	1	L674315	03/30/2023	04/05/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'
3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'
3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.3 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	92.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.08		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	0.493		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00298	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	0.00544	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00146	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000408	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.000861	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000898	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00052	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00432	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00174	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00397	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'

3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y303804-06 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000698	0.000627	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023	
Pyrene	0.00306	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B3D0314	04/03/2023	04/04/2023	
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SAR by 20B Saturated Paste

SAR	0.323			SAR	1	B3D0309	04/03/2023	04/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.510		0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.95		0.0863	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Barium	50.9		8.63	"	"	"	"	"	
Cadmium	0.223		0.0863	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'
3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.63	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Lead	ND		8.63	"	"	"	"	"
Nickel	ND		8.63	"	"	"	"	"
Selenium	0.112		0.0863	"	"	"	"	"
Silver	ND		0.0863	"	"	"	"	"
Zinc	ND		86.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L674315	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.10	0.0981	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.5 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	89.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.00		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	2.93		0.823	"	"	"	"	"	
Sodium	2.04		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-07 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.02	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	1.18	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.719	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	4.48	0.0848	mg/kg	10	B3D0334	04/03/2023	04/04/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-07 (Soil)

Table 915 metals by EPA 6020B

Barium	133	8.48	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	0.269	0.0848	"	"	"	"	"
Copper	16.7	8.48	"	"	"	"	"
Lead	14.0	8.48	"	"	"	"	"
Nickel	14.9	8.48	"	"	"	"	"
Selenium	0.209	0.0848	"	"	"	"	"
Silver	ND	0.0848	"	"	"	"	"
Zinc	ND	84.8	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.23	2.52	mg/Kg	1	L674315	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.14	0.0999	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.4 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00572	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	0.00810	0.00200	"	"	"	"	"	
Xylenes, total	0.00596	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.4 %	70-130	B3C31 28	03/31/2023	03/31/2023
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	10.3	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	9.24	0.823	"	"	"	"	"
Sodium	3.67	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.80	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	1.17	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.91	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.73	0.0966	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	146	9.66	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-08 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.230	0.0966	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Copper	14.5	9.66	"	"	"	"	"
Lead	13.5	9.66	"	"	"	"	"
Nickel	13.7	9.66	"	"	"	"	"
Selenium	0.192	0.0966	"	"	"	"	"
Silver	ND	0.0966	"	"	"	"	"
Zinc	ND	96.6	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	1	L674315	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-09 (Soil)

Boron (DTPA Sorbitol)

Boron	2.21	0.0994	mg/L	1	B3D0304	04/03/2023	04/04/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	6320	250	mg/kg	10	B3C3120	03/31/2023	04/02/2023
Residual Range Organics (C28-C40)	2870	100	"	1	"	"	03/31/2023

Surrogate: o-Terphenyl	282 %	50-150	"	"	04/02/2023	S-04, S-06, U
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	27.8	0.500	mg/kg	250	B3C3128	03/31/2023	04/02/2023
1,3,5-Trimethylbenzene	0.398	0.00200	"	1	"	"	03/31/2023
Benzene	0.0128	0.00200	"	"	"	"	"
Ethylbenzene	0.0210	0.00200	"	"	"	"	"
Toluene	0.00642	0.00200	"	"	"	"	"
Xylenes, total	17.6	0.00200	"	"	"	"	04/02/2023
Gasoline Range Hydrocarbons	1030	50.0	"	250	"	"	"

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.02	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	4.52	0.823	"	"	"	"	"
Sodium	33.7	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	2.44	0.0218	0.0402	mg/Kg	20	L675584	04/12/2023	04/12/2023
2-Methylnaphthalene	4.66	0.0387	0.0402	"	"	"	"	"
Acenaphthene	0.0922	0.00608	0.0134	"	"	"	"	"
Anthracene	ND	0.00668	0.0134	"	"	"	"	"
Benzo(a)anthracene	0.0505	0.00986	0.0134	"	"	"	"	"
Benzo(a)pyrene	ND	0.00936	0.0134	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"
Chrysene	0.113	0.0125	0.0134	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"
Fluoranthene	0.0191	0.00788	0.0134	"	"	"	"	"
Fluorene	0.536	0.00572	0.0134	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"
Naphthalene	0.997	0.029	0.0402	"	"	"	"	"
Pyrene	0.0598	0.0129	0.0134	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	44 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	48.9 %		33-122			"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-09 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	52 %	29-110	L6755 84	04/12/2023	04/12/2023
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pH in Soil by 9045D

pH	7.52	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	17.4	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.13	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	5.22	0.0911	mg/kg	10	B3C3126	03/31/2023	04/04/2023
Barium	172	9.11	"	"	"	"	"
Cadmium	0.157	0.0911	"	"	"	"	"
Copper	18.2	9.11	"	"	"	"	"
Lead	12.3	9.11	"	"	"	"	"
Nickel	20.2	9.11	"	"	"	"	"
Selenium	0.140	0.0911	"	"	"	"	"
Silver	ND	0.0911	"	"	"	"	"
Zinc	ND	91.1	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

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

Y303804-09 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L675725	03/30/2023	04/12/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

TB-BG01@0.5'
3/30/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.248	0.0981	mg/L	1	B3D0304	04/03/2023	04/04/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.05	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	1.31	0.823	"	"	"	"	"
Sodium	1.33	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.97		pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.898		SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.04	0.0929	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	67.2	9.29	"	"	"	"	"
Cadmium	ND	0.0929	"	"	"	"	"
Copper	ND	9.29	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

TB-BG01@0.5'
3/30/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-10 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.29	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Nickel	ND	9.29	"	"	"	"	"
Selenium	0.0966	0.0929	"	"	"	"	"
Silver	ND	0.0929	"	"	"	"	"
Zinc	ND	92.9	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L674315	03/30/2023	04/05/2023
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Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3C3120 - EPA 3580										
Blank (B3C3120-BLK1)					Prepared: 03/31/2023 Analyzed: 03/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.5	50-150			

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3C3120 - EPA 3580

LCS (B3C3120-BS1)

Prepared: 03/31/2023 Analyzed: 03/31/2023

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000		97.7	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	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 B3C3120 - EPA 3580

Matrix Spike (B3C3120-MS1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
Diesel (C10-C28)	855	50.0	mg/kg	1000	ND	85.5	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000	ND	94.7	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	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 B3C3120 - EPA 3580

Matrix Spike Dup (B3C3120-MSD1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130	8.15	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	6.60	35	
Surrogate: o-Terphenyl	46		"	49.8		91.7	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
Batch B3C3128 - EPA 5030 (soil)										
Blank (B3C3128-BLK1)					Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.2	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
Batch B3C3128 - EPA 5030 (soil)										
LCS (B3C3128-BS1)					Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.0944	0.00200	"	0.100		94.4	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	70-130			

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Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3C3128 - EPA 5030 (soil)

Matrix Spike (B3C3128-MS1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Benzene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
Ethylbenzene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
Naphthalene	0.0981	0.00380	"	0.100	0.000820	97.3	70-130			
Toluene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
o-Xylene	0.0869	0.00200	"	0.100	0.000820	86.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	0.000700	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	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
Batch B3C3128 - EPA 5030 (soil)										
Matrix Spike Dup (B3C3128-MSD1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130	3.03	20	
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	4.03	20	
Benzene	0.0958	0.00200	"	0.100	ND	95.8	70-130	0.397	20	
Ethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	4.72	20	
Naphthalene	0.105	0.00380	"	0.100	0.000820	105	70-130	7.21	20	
Toluene	0.0848	0.00200	"	0.100	ND	84.8	70-130	1.43	20	
o-Xylene	0.0838	0.00200	"	0.100	0.000820	83.0	70-130	3.63	20	
m,p-Xylene	0.173	0.00400	"	0.200	0.000700	86.3	70-130	4.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	70-130			

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

Origins Laboratory, Inc.

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C3126 - EPA 3050B

Blank (B3C3126-BLK1)

Prepared: 03/31/2023 Analyzed: 04/04/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"

LCS (B3C3126-BS1)

Prepared: 03/31/2023 Analyzed: 04/04/2023

Arsenic	0.0492	0.000100	mg/kg	0.0500	98.4	80-120
Barium	4.94	0.0100	"	5.00	98.9	80-120
Cadmium	0.0472	0.000100	"	0.0500	94.5	80-120
Copper	0.516	0.0100	"	0.500	103	80-120
Lead	0.0490	0.0100	"	0.0500	98.0	80-120
Nickel	0.0508	0.0100	"	0.0500	102	80-120
Selenium	0.0499	0.000100	"	0.0500	99.9	80-120

Matrix Spike (B3C3126-MS1)

Source: Y303804-09

Prepared: 03/31/2023 Analyzed: 04/04/2023

Arsenic	7.97	0.0866	mg/kg	4.33	5.22	63.7	75-125	QM-07
Barium	573	8.66	"	433	172	92.6	75-125	
Cadmium	4.09	0.0866	"	4.33	0.157	90.8	75-125	
Copper	54.7	8.66	"	43.3	18.2	84.4	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
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Batch B3C3126 - EPA 3050B

Matrix Spike (B3C3126-MS1)		Source: Y303804-09			Prepared: 03/31/2023 Analyzed: 04/04/2023					
Lead	15.2	8.66	mg/kg	4.33	12.3	66.1	75-125			QM-07
Nickel	16.6	8.66	"	4.33	20.2	NR	75-125			QM-07
Selenium	3.81	0.0866	"	4.33	0.140	84.8	75-125			
Matrix Spike Dup (B3C3126-MSD1)		Source: Y303804-09			Prepared: 03/31/2023 Analyzed: 04/04/2023					
Arsenic	8.72	0.0929	mg/kg	4.65	5.22	75.4	75-125	8.94	20	
Barium	688	9.29	"	465	172	111	75-125	18.3	20	
Cadmium	4.43	0.0929	"	4.65	0.157	92.1	75-125	8.08	20	
Copper	61.4	9.29	"	46.5	18.2	93.0	75-125	11.5	20	
Lead	16.2	9.29	"	4.65	12.3	83.4	75-125	6.44	20	
Nickel	19.9	9.29	"	4.65	20.2	NR	75-125	18.0	20	QM-07
Selenium	4.25	0.0929	"	4.65	0.140	88.4	75-125	10.9	20	

Batch B3D0334 - EPA 3050B

Blank (B3D0334-BLK1)		Prepared: 04/03/2023 Analyzed: 04/04/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							
LCS (B3D0334-BS1)		Prepared: 04/03/2023 Analyzed: 04/04/2023								

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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 B3D0334 - EPA 3050B

LCS (B3D0334-BS1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	0.0450	0.000100	mg/kg	0.0500		90.0	80-120			
Barium	4.71	0.0100	"	5.00		94.2	80-120			
Cadmium	0.0484	0.000100	"	0.0500		96.7	80-120			
Copper	0.498	0.0100	"	0.500		99.6	80-120			
Lead	0.0504	0.0100	"	0.0500		101	80-120			
Nickel	0.0508	0.0100	"	0.0500		102	80-120			
Selenium	0.0482	0.000100	"	0.0500		96.5	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.470	0.100	"	0.500		93.9	80-120			

Matrix Spike (B3D0334-MS1)

Source: Y304015-13

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	5.97	0.0877	mg/kg	4.38	1.49	102	75-125			
Barium	483	8.77	"	438	44.6	100	75-125			
Cadmium	4.41	0.0877	"	4.38	0.0465	99.5	75-125			
Copper	47.4	8.77	"	43.8	3.81	99.5	75-125			
Lead	8.33	8.77	"	4.38	3.91	101	75-125			
Nickel	8.39	8.77	"	4.38	3.63	109	75-125			
Selenium	3.99	0.0877	"	4.38	0.0474	89.9	75-125			
Silver	4.42	0.0877	"	4.38	0.0102	101	75-125			
Zinc	60.9	87.7	"	43.8	15.5	104	75-125			

Matrix Spike Dup (B3D0334-MSD1)

Source: Y304015-13

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	6.17	0.0952	mg/kg	4.76	1.49	98.3	75-125	3.27	20	
Barium	516	9.52	"	476	44.6	99.0	75-125	6.51	20	
Cadmium	4.69	0.0952	"	4.76	0.0465	97.5	75-125	6.17	20	
Copper	50.5	9.52	"	47.6	3.81	98.1	75-125	6.34	20	
Lead	8.68	9.52	"	4.76	3.91	100	75-125	4.17	20	

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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 B3D0334 - EPA 3050B

Matrix Spike Dup (B3D0334-MSD1)		Source: Y304015-13			Prepared: 04/03/2023 Analyzed: 04/04/2023					
Nickel	8.51	9.52	mg/kg	4.76	3.63	102	75-125	1.36	20	
Selenium	4.18	0.0952	"	4.76	0.0474	86.9	75-125	4.82	20	
Silver	4.66	0.0952	"	4.76	0.0102	97.8	75-125	5.26	20	
Zinc	62.6	95.2	"	47.6	15.5	98.9	75-125	2.78	20	

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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 B3D0304 - DTPA Sorbitol Preparation

Blank (B3D0304-BLK1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Boron ND 0.100 mg/L

Duplicate (B3D0304-DUP1)

Source: Y303804-01

Prepared: 04/03/2023 Analyzed: 04/04/2023

Boron 0.0243 0.0997 mg/L 0.0302 21.4 50

Batch B3D0309 - Saturated Paste Metals

Blank (B3D0309-BLK1)

Prepared: 04/03/2023 Analyzed: 04/05/2023

SAR 0.00 SAR
Calcium PPM ND 10.0 mg/L
Magnesium PPM ND 10.0 "
Sodium PPM ND 10.0 "

Duplicate (B3D0309-DUP1)

Source: Y303804-01

Prepared: 04/03/2023 Analyzed: 04/05/2023

SAR 0.00 SAR 0.274 200 200
Calcium PPM 5.53 10.0 mg/L 6.87 21.6 50
Magnesium PPM 2.53 10.0 " 3.08 19.5 50
Sodium PPM 3.43 10.0 " 3.44 0.204 50

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Project: KMG - Junction 11,12,22-2 O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0314 - Saturated Paste pH/EC										
Blank (B3D0314-BLK1)					Prepared: 04/03/2023 Analyzed: 04/04/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3D0314-DUP1)					Source: Y303804-01 Prepared: 04/03/2023 Analyzed: 04/04/2023					
pH	7.40		pH Units		7.53			1.74	25	
Specific Conductance (EC)	0.0815	0.00500	mmhos/cm		0.0964			16.8	25	

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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L674382 - 3550B

MSD (L 92244-MSD-L674382)		Source: Y303804-06			Prepared: 04/06/2023 Analyzed: 04/06/2023					
2-Methylnaphthalene	0.106	0.00201	mg/Kg	0.164	0.00544	61.3	30-130	11.8	30	
Indeno(1,2,3-cd)pyrene	0.0723	0.00067	"	0.164	0.000698	43.6	30-130	6.4	30	
1-Methylnaphthalene	0.108	0.00201	"	0.164	0.00298	64	30-130	15.1	30	
Pyrene	0.106	0.00067	"	0.164	0.00306	62.7	30-130	6.5	30	
Naphthalene	0.0991	0.00201	"	0.164	<0.00145	60.4	30-130	13.6	30	
Fluorene	0.116	0.00067	"	0.164	0.00397	68.3	30-130	12.8	30	
Fluoranthene	0.111	0.00067	"	0.164	0.00174	66.6	30-130	7.4	30	
Dibenz(a,h)anthracene	0.124	0.00067	"	0.164	<0.000614	75.6	30-130	10.1	30	
Acenaphthene	0.104	0.00067	"	0.164	0.00146	62.5	30-130	11	30	
Chrysene	0.12	0.00067	"	0.164	0.00432	70.5	30-130	6.8	30	
Anthracene	0.117	0.00067	"	0.164	0.000408	71	30-130	8.9	30	
Benzo(a)anthracene	0.106	0.00067	"	0.164	0.000861	64.1	30-130	8.6	30	
Benzo(a)pyrene	0.117	0.00067	"	0.164	<0.000468	71.3	30-130	0	30	
Benzo(b)fluoranthene	0.0638	0.00067	"	0.164	0.000898	38.3	30-130	13	30	
Benzo(k)fluoranthene	0.0894	0.00067	"	0.164	0.00052	54.1	30-130	10.3	30	
Surrogate: 2-Fluorobiphenyl	57.1		"	0.329	171	57.1	33-115			
Surrogate: Nitrobenzene-d5	53.7		"	0.329	156	53.7	29-110			
Surrogate: 4-Terphenyl-d14	55.6		"	0.329	162	55.6	33-122			

MS (L 92244-MS-L674382)		Source: Y303804-06			Prepared: 04/06/2023 Analyzed: 04/06/2023					
Chrysene	0.112	0.00067	mg/Kg	0.162	0.00432	66.4	30-130			
1-Methylnaphthalene	0.0928	0.00201	"	0.162	0.00298	55.4	30-130			
Naphthalene	0.0864	0.00201	"	0.162	<0.00145	53.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0678	0.00067	"	0.162	0.000698	41.4	30-130			
Fluorene	0.102	0.00067	"	0.162	0.00397	60.5	30-130			
Fluoranthene	0.103	0.00067	"	0.162	0.00174	62.5	30-130			
Dibenz(a,h)anthracene	0.112	0.00067	"	0.162	<0.000614	69.1	30-130			

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L674382 - 3550B

MS (L 92244-MS-L674382)		Source: Y303804-06			Prepared: 04/06/2023 Analyzed: 04/06/2023					
Pyrene	0.0993	0.00067	mg/Kg	0.162	0.00306	59.4	30-130			
Benzo(k)fluoranthene	0.0806	0.00067	"	0.162	0.00052	49.4	30-130			
Benzo(b)fluoranthene	0.056	0.00067	"	0.162	0.000898	34	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.162	<0.000468	72.2	30-130			
Benzo(a)anthracene	0.0972	0.00067	"	0.162	0.000861	59.4	30-130			
Anthracene	0.107	0.00067	"	0.162	0.000408	65.7	30-130			
Acenaphthene	0.0931	0.00067	"	0.162	0.00146	56.5	30-130			
2-Methylnaphthalene	0.0941	0.00201	"	0.162	0.00544	54.7	30-130			
Surrogate: Nitrobenzene-d5	47.3		"	0.325	156	47.3	29-110			
Surrogate: 4-Terphenyl-d14	51.6		"	0.325	162	51.6	33-122			
Surrogate: 2-Fluorobiphenyl	51.3		"	0.325	171	51.3	33-115			

LCS (LCS-L674382)		Prepared: 04/06/2023 Analyzed: 04/06/2023								
2-Methylnaphthalene	0.105	0.00201	mg/Kg	0.167		62.8	30-130			
Pyrene	0.115	0.00067	"	0.167		68.8	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Anthracene	0.132	0.00067	"	0.167		79	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(a)pyrene	0.129	0.00067	"	0.167		77.2	30-130			
Benzo(b)fluoranthene	0.0811	0.00067	"	0.167		48.5	30-130			
Chrysene	0.131	0.00067	"	0.167		78.4	30-130			
Fluorene	0.125	0.00067	"	0.167		74.8	30-130			
1-Methylnaphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Naphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Dibenz(a,h)anthracene	0.135	0.00067	"	0.167		80.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0841	0.00067	"	0.167		50.3	30-130			
Fluoranthene	0.118	0.00067	"	0.167		70.6	30-130			

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Jeremy Espinoza
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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 L674382 - 3550B

LCS (LCS-L674382)

Prepared: 04/06/2023 Analyzed: 04/06/2023

Benzo(k)fluoranthene	0.0947	0.00067	mg/Kg	0.167		56.7	30-130			
Surrogate: 2-Fluorobiphenyl	62.4		"	0.333		62.4	33-115			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			

LRB (LRB-L674382)

Prepared: 04/06/2023 Analyzed: 04/06/2023

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	66		"	0.333		66	33-122			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			
Surrogate: Nitrobenzene-d5	50.7		"	0.333		50.7	29-110			

Batch L675584 - 3550B

MSD (L 94380-MSD-L675584)

Source: 94380

Prepared: 04/12/2023 Analyzed: 04/12/2023

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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 L675584 - 3550B

MSD (L 94380-MSD-L675584)		Source: 94380			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Naphthalene	0.0958	0.00201	mg/Kg	0.166	<0.00145	57.7	30-130	0.1	30	
Benzo(a)anthracene	0.122	0.00067	"	0.166	<0.000493	73.4	30-130	1.6	30	
2-Methylnaphthalene	0.0973	0.00201	"	0.166	<0.00194	58.6	30-130	1	30	
Acenaphthene	0.0998	0.00067	"	0.166	<0.000304	60.1	30-130	0.5	30	
Anthracene	0.106	0.00067	"	0.166	<0.000334	63.8	30-130	0.9	30	
1-Methylnaphthalene	0.0956	0.00201	"	0.166	<0.00109	57.5	30-130	1.5	30	
Pyrene	0.11	0.00067	"	0.166	<0.000643	66.2	30-130	1.8	30	
Benzo(b)fluoranthene	0.0962	0.00067	"	0.166	<0.000585	57.9	30-130	3.1	30	
Benzo(k)fluoranthene	0.0946	0.00067	"	0.166	<0.000437	56.9	30-130	7.5	30	
Chrysene	0.102	0.00067	"	0.166	<0.000624	61.4	30-130	3.8	30	
Dibenz(a,h)anthracene	0.0943	0.00067	"	0.166	<0.000614	56.8	30-130	5.7	30	
Fluoranthene	0.116	0.00067	"	0.166	<0.000394	69.8	30-130	2.5	30	
Indeno(1,2,3-cd)pyrene	0.0955	0.00067	"	0.166	<0.000627	57.5	30-130	1.6	30	
Fluorene	0.104	0.00067	"	0.166	<0.000286	62.6	30-130	0	30	
Benzo(a)pyrene	0.113	0.00067	"	0.166	<0.000468	68	30-130	0.8	30	
Surrogate: 2-Fluorobiphenyl	49.5		"	0.331	153	49.5	33-115			
Surrogate: 4-Terphenyl-d14	61.9		"	0.331	193	61.9	33-122			
Surrogate: Nitrobenzene-d5	52.2		"	0.331	170	52.2	29-110			

MS (L 94380-MS-L675584)		Source: 94380			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Dibenz(a,h)anthracene	0.0999	0.00067	mg/Kg	0.166	<0.000614	60.1	30-130			
Fluoranthene	0.119	0.00067	"	0.166	<0.000394	71.6	30-130			
Fluorene	0.104	0.00067	"	0.166	<0.000286	62.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0971	0.00067	"	0.166	<0.000627	58.4	30-130			
Naphthalene	0.0957	0.00201	"	0.166	<0.00145	57.6	30-130			
Chrysene	0.106	0.00067	"	0.166	<0.000624	63.8	30-130			
Pyrene	0.112	0.00067	"	0.166	<0.000643	67.4	30-130			

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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 L675584 - 3550B

MS (L 94380-MS-L675584)		Source: 94380			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Benzo(k)fluoranthene	0.102	0.00067	mg/Kg	0.166	<0.000437	61.4	30-130			
Benzo(b)fluoranthene	0.0993	0.00067	"	0.166	<0.000585	59.8	30-130			
Benzo(a)pyrene	0.114	0.00067	"	0.166	<0.000468	68.6	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.166	<0.000493	74.6	30-130			
Acenaphthene	0.0993	0.00067	"	0.166	<0.000304	59.8	30-130			
2-Methylnaphthalene	0.0983	0.00201	"	0.166	4.66	59.2	30-130			
1-Methylnaphthalene	0.0971	0.00201	"	0.166	<0.00109	58.4	30-130			
Anthracene	0.107	0.00067	"	0.166	<0.000334	64.4	30-130			
Surrogate: 4-Terphenyl-d14	61.1		"	0.332	193	61.1	33-122			
Surrogate: Nitrobenzene-d5	53.6		"	0.332	170	53.6	29-110			
Surrogate: 2-Fluorobiphenyl	50		"	0.332	153	50	33-115			

LCS (LCS-L675584)		Prepared: 04/12/2023 Analyzed: 04/12/2023								
Benzo(a)anthracene	0.14	0.00067	mg/Kg	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.111	0.00067	"	0.167		66.4	30-130			
Pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Naphthalene	0.115	0.00201	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.167		69.4	30-130			
Fluoranthene	0.137	0.00067	"	0.167		82	30-130			
Chrysene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(k)fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(b)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
Anthracene	0.123	0.00067	"	0.167		73.6	30-130			
2-Methylnaphthalene	0.116	0.00201	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.115	0.00201	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.167		79.6	30-130			

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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 L675584 - 3550B

LCS (LCS-L675584)

Prepared: 04/12/2023 Analyzed: 04/12/2023

Fluorene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Surrogate: Nitrobenzene-d5	66		"	0.333	66		29-110			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333	74.4		33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333	62.7		33-115			

LRB (LRB-L675584)

Prepared: 04/12/2023 Analyzed: 04/12/2023

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.5		"	0.333	58.5		29-110			
Surrogate: 4-Terphenyl-d14	66		"	0.333	66		33-122			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.333	55.8		33-115			

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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 L675725 -										
DUP (L 94228-DUP)	Source: Y303804-09				Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	ND	1.01	mg/Kg		<1.01		-	0	20	
MS (L 94228-MS)	Source: Y303804-09				Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	7.35	2.5	mg/Kg	39	<1.22	19	75-125			*
LCS (LCS)					Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	6.62	0.5	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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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 L674189 - 3550B

MSD (L 92211-MSD-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Indeno(1,2,3-cd)pyrene	0.0824	0.00067	mg/Kg	0.166	0.00114	48.9	30-130	11.4	30	
Fluorene	0.107	0.00067	"	0.166	<0.000286	64.4	30-130	0	30	
Fluoranthene	0.106	0.00067	"	0.166	<0.000394	63.8	30-130	1.8	30	
Dibenz(a,h)anthracene	0.125	0.00067	"	0.166	0.00127	74.5	30-130	4	30	
Benzo(a)anthracene	0.0983	0.00067	"	0.166	<0.000493	59.2	30-130	1	30	
Chrysene	0.122	0.00067	"	0.166	<0.000624	73.4	30-130	0.8	30	
Pyrene	0.104	0.00067	"	0.166	<0.000643	62.6	30-130	0.9	30	
1-Methylnaphthalene	0.0955	0.00201	"	0.166	<0.00109	57.5	30-130	4	30	
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130	0.8	30	
Anthracene	0.116	0.00067	"	0.166	<0.000334	69.8	30-130	0.8	30	
Acenaphthene	0.0957	0.00067	"	0.166	<0.000304	57.6	30-130	1.2	30	
2-Methylnaphthalene	0.0902	0.00201	"	0.166	<0.00194	54.3	30-130	3.1	30	
Benzo(k)fluoranthene	0.108	0.00067	"	0.166	0.000928	64.5	30-130	6.6	30	
Benzo(b)fluoranthene	0.0669	0.00067	"	0.166	0.000793	39.8	30-130	5.8	30	
Surrogate: Nitrobenzene-d5	53		"	0.332	153	53	29-110			
Surrogate: 4-Terphenyl-d14	61.7		"	0.332	186	61.7	33-122			
Surrogate: 2-Fluorobiphenyl	53.6		"	0.332	154	53.6	33-115			

MS (L 92211-MS-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Dibenz(a,h)anthracene	0.12	0.00067	mg/Kg	0.164	0.00127	72.3	30-130			
Fluoranthene	0.108	0.00067	"	0.164	<0.000394	65.8	30-130			
Fluorene	0.107	0.00067	"	0.164	<0.000286	65.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0735	0.00067	"	0.164	0.00114	44.1	30-130			
1-Methylnaphthalene	0.0994	0.00201	"	0.164	<0.00109	60.6	30-130			
Chrysene	0.121	0.00067	"	0.164	<0.000624	73.7	30-130			
Pyrene	0.105	0.00067	"	0.164	<0.000643	64	30-130			
Benzo(b)fluoranthene	0.0631	0.00067	"	0.164	0.000793	37.9	30-130			

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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 L674189 - 3550B

MS (L 92211-MS-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Benzo(a)pyrene	0.119	0.00067	mg/Kg	0.164	<0.000468	72.5	30-130			
Benzo(a)anthracene	0.0973	0.00067	"	0.164	<0.000493	59.3	30-130			
Anthracene	0.115	0.00067	"	0.164	<0.000334	70.1	30-130			
Acenaphthene	0.0969	0.00067	"	0.164	<0.000304	59	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.164	0.000928	61	30-130			
2-Methylnaphthalene	0.0931	0.00201	"	0.164	<0.00194	56.7	30-130			
Surrogate: Nitrobenzene-d5	52.5		"	0.329	153	52.5	29-110			
Surrogate: 4-Terphenyl-d14	62.6		"	0.329	186	62.6	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.329	154	53.7	33-115			

LCS (LCS-L674189)		Prepared: 04/05/2023 Analyzed: 04/06/2023								
Pyrene	0.115	0.00067	mg/Kg	0.167		68.8	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.167		79.6	30-130			
Benzo(b)fluoranthene	0.075	0.00067	"	0.167		44.9	30-130			
Benzo(k)fluoranthene	0.0913	0.00067	"	0.167		54.6	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluorene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.111	0.00067	"	0.167		66.4	30-130			
Chrysene	0.132	0.00067	"	0.167		79	30-130			
Indeno(1,2,3-cd)pyrene	0.0872	0.00067	"	0.167		52.2	30-130			
Acenaphthene	0.109	0.00067	"	0.167		65.2	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130			
Anthracene	0.133	0.00067	"	0.167		79.6	30-130			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	69.9		"	0.333		69.9	33-122			

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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L674189 - 3550B										
LCS (LCS-L674189)					Prepared: 04/05/2023 Analyzed: 04/06/2023					
Surrogate: 2-Fluorobiphenyl	64.2		mg/Kg	0.333		64.2	33-115			
LRB (LRB-L674189)					Prepared: 04/05/2023 Analyzed: 04/06/2023					
Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.1		"	0.333		59.1	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333		63	33-115			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 L674315 -										
DUP (L 92243-DUP)	Source: Y303804-05				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	2.56	mg/Kg		<2.56		-	0	20	
MS (L 92243-MS)	Source: Y303804-05				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	32.2	2.51	mg/Kg	40.2	<1.22	80	75-125			
LCS (LCS)					Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 04/05/2023					
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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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
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Batch L674313 -

DUP (L 92230-DUP)		Source: 92230			Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	2.54	mg/Kg		<2.54		-	0	20	
MS (L 92230-MS)		Source: 92230			Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	31	2.6	mg/Kg	41.5	<1.27	75	75-125			

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Notes and Definitions

U Sample is Non-Detect.

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

J Estimated Value. Analyte below reported quantitation limit.

* 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.



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.



July 14, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Junction 11,12,22-2 O SA Facility **Project Number - 09A1417263**

Attached are your analytical results for KMG - Junction 11,12,22-2 O SA Facility received by Origins Laboratory, Inc. June 29, 2023. This project is associated with Origins project number Y306823-01.

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@4'	Y306823-01	Soil	June 29, 2023 14:40	06/29/2023 17:39
E01@4'	Y306823-02	Soil	June 29, 2023 14:42	06/29/2023 17:39
E02@4'	Y306823-03	Soil	June 29, 2023 14:44	06/29/2023 17:39
S01@4'	Y306823-04	Soil	June 29, 2023 14:50	06/29/2023 17:39
W01@4'	Y306823-05	Soil	June 29, 2023 14:52	06/29/2023 17:39
W02@4'	Y306823-06	Soil	June 29, 2023 14:54	06/29/2023 17:39
B01@6'	Y306823-07	Soil	June 29, 2023 15:00	06/29/2023 17:39
B02@6'	Y306823-08	Soil	June 29, 2023 15:02	06/29/2023 17:39
B03@6'	Y306823-09	Soil	June 29, 2023 15:04	06/29/2023 17:39
E03@4'	Y306823-10	Soil	June 29, 2023 15:08	06/29/2023 17:39
AST-GW01	Y306823-11	Water	June 29, 2023 15:15	06/29/2023 17:39

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

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

ORIGINS
LABORATORY, INC

IMPACTED

430423

page 1 of 2

www.originslaboratory.com

Client: Ensolum

Address:

Project Manager: Jeremy Espinoza

Project Name: Junction 11,12,22-2 O SA Facility

Project Number: 09A1417263

Telephone Number:

Samples Collected By: FS

Email Address: KMG Team

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	TMBS	PAHs	Boron	Arsenic	Barium	Cadmium	Copper	
N01a4'	6/29/23	1440	3	X					X			X	X	X	X	X	X	X	
E01a4'		1442																	
E02a4'		1444																	
S01a4'		1450																	
W01a4'		1452																	
W02a4'		1454																	
B01a6'		1500																	
B02a6'		1502																	
B03a6'		1504																	
E03a4'		1508																	
Relinquished By: <i>[Signature]</i>	Date: 6/29/23	Time: 1513																	
Received By: <i>[Signature]</i>	Date: 6/29/23	Time: 1739																	
Relinquished By: <i>[Signature]</i>	Date: 6/29/23	Time: 1739																	
Received By: <i>[Signature]</i>	Date: 6/29/23	Time: 1739																	
Turnaround Time:																			
Standard																			
48 Hr																			
72 Hr																			

Temp Received -

5

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 43010723

Client: Ensolum

Client Project ID: Junction 11,12,22-2 O

Checklist Completed by: WHI/RS

Shipped Via: Hand Delivered

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

Date/time completed: 10/29/23

Airbill #: N/A

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

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

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) UET

Date/Time Reviewed 10/29/23

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

N01@4'

6/29/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.01	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

N01@4'

6/29/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	112 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	99.5 %	60-130	"	"	"
Surrogate: Terphenyl-d14	105 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.36	0.0859	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	150	8.59	"	"	"	CIH	"	"
Cadmium	0.187	0.0859	"	"	"	CIH	"	"
Copper	16.4	8.59	"	"	"	CIH	"	"
Nickel	14.9	8.59	"	"	"	CIH	"	"
Selenium	0.203	0.0859	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E01@4'

6/29/2023 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.17	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E01@4'

6/29/2023 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	104 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	97.6 %	60-130	"	"	"
Surrogate: Terphenyl-d14	111 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.39	0.0853	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	188	8.53	"	"	"	CIH	"	"
Cadmium	0.195	0.0853	"	"	"	CIH	"	"
Copper	17.6	8.53	"	"	"	CIH	"	"
Nickel	16.7	8.53	"	"	"	CIH	"	"
Selenium	0.195	0.0853	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E02@4'

6/29/2023 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.67	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	0.014	0.005	"	"	"	agile	"	"	
Benzo (a) pyrene	0.026	0.020	"	"	"	agile	"	"	
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	0.029	0.020	"	"	"	agile	"	"	
Chrysene	0.024	0.020	"	"	"	agile	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	0.023	0.020	"	"	"	agile	"	"	

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E02@4'

6/29/2023 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	U
Indeno (1,2,3-cd) pyrene	0.020	0.020	"	"	"	agile	"	"	
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	112 %	60-130			"	"	"
Surrogate: 2-Fluorobiphenyl	95.4 %	60-130			"	"	"
Surrogate: Terphenyl-d14	107 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.40	0.0967	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	110	9.67	"	"	"	CIH	"	"
Cadmium	0.184	0.0967	"	"	"	CIH	"	"
Copper	12.7	9.67	"	"	"	CIH	"	"
Nickel	12.5	9.67	"	"	"	CIH	"	"
Selenium	0.227	0.0967	"	"	"	CIH	"	"

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

S01@4'

6/29/2023 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.599	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/29/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	0.006	0.005	"	"	"	agile	"	"	
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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

S01@4'

6/29/2023 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-04 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	112 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	105 %	60-130	"	"	"
Surrogate: Terphenyl-d14	104 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.64	0.0933	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	112	9.33	"	"	"	CIH	"	"
Cadmium	0.143	0.0933	"	"	"	CIH	"	"
Copper	12.1	9.33	"	"	"	CIH	"	"
Nickel	12.4	9.33	"	"	"	CIH	"	"
Selenium	0.138	0.0933	"	"	"	CIH	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

W01@4'

6/29/2023 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-05 (Soil)

Boron (DTPA Sorbitol)

Boron	2.00	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	0.010	0.005	"	"	"	agile	"	"	
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

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

W01@4'

6/29/2023 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-05 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	104 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	103 %	60-130	"	"	"
Surrogate: Terphenyl-d14	96.1 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.98	0.0865	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	158	8.65	"	"	"	CIH	"	"
Cadmium	0.222	0.0865	"	"	"	CIH	"	"
Copper	14.7	8.65	"	"	"	CIH	"	"
Nickel	13.4	8.65	"	"	"	CIH	"	"
Selenium	0.201	0.0865	"	"	"	CIH	"	"

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

W02@4'

6/29/2023 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.931	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	105 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

W02@4'

6/29/2023 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-06 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	99.7 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	106 %	60-130	"	"	"
Surrogate: Terphenyl-d14	102 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.32	0.0989	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	163	9.89	"	"	"	CIH	"	"
Cadmium	0.202	0.0989	"	"	"	CIH	"	"
Copper	12.1	9.89	"	"	"	CIH	"	"
Nickel	12.0	9.89	"	"	"	CIH	"	"
Selenium	0.180	0.0989	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B01@6'

6/29/2023 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.539	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B01@6'

6/29/2023 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-07 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	104 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	99.3 %	60-130	"	"	"
Surrogate: Terphenyl-d14	108 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.98	0.0873	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	181	8.73	"	"	"	CIH	"	"
Cadmium	0.193	0.0873	"	"	"	CIH	"	"
Copper	12.7	8.73	"	"	"	CIH	"	"
Nickel	15.2	8.73	"	"	"	CIH	"	"
Selenium	0.161	0.0873	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B02@6'

6/29/2023 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.166	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B02@6'

6/29/2023 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-08 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	106 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	104 %	60-130	"	"	"
Surrogate: Terphenyl-d14	104 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	5.50	0.0998	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	133	9.98	"	"	"	CIH	"	"
Cadmium	ND	0.0998	"	"	"	CIH	"	"
Copper	16.6	9.98	"	"	"	CIH	"	"
Nickel	18.2	9.98	"	"	"	CIH	"	"
Selenium	0.147	0.0998	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

B03@6'

6/29/2023 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.195	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B03@6'

6/29/2023 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-09 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/03/2023	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

Surrogate: Nitrobenzene-d5	106 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	103 %	60-130	"	"	"
Surrogate: Terphenyl-d14	97.3 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.44	0.0853	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	105	8.53	"	"	"	CIH	"	"
Cadmium	ND	0.0853	"	"	"	CIH	"	"
Copper	12.9	8.53	"	"	"	CIH	"	"
Nickel	14.3	8.53	"	"	"	CIH	"	"
Selenium	0.117	0.0853	"	"	"	CIH	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E03@4'

6/29/2023 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306823-10 (Soil)

Boron (DTPA Sorbitol)

Boron	1.25	0.100	mg/L	1	B3F3009	CIH	06/30/2023	07/03/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2937	HK	06/29/2023	06/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2935	agile	06/29/2023	07/05/2023	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

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E03@4'

6/29/2023 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-10 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3F2935	agile	06/29/2023	07/05/2023	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

Surrogate: Nitrobenzene-d5	99.4 %	60-130	"	"	"
Surrogate: 2-Fluorobiphenyl	95.6 %	60-130	"	"	"
Surrogate: Terphenyl-d14	94.4 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.14	0.0903	mg/kg	10	B3F2940	CIH	06/29/2023	06/30/2023
Barium	135	9.03	"	"	"	CIH	"	"
Cadmium	0.216	0.0903	"	"	"	CIH	"	"
Copper	15.2	9.03	"	"	"	CIH	"	"
Nickel	14.0	9.03	"	"	"	CIH	"	"
Selenium	0.262	0.0903	"	"	"	CIH	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

AST-GW01

6/29/2023 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306823-11 (Water)

Anions by IC 300.0

Chloride	126	31.2	mg/L	125	B3F3002	ACC	06/30/2023	07/03/2023	
Sulfate	700	31.2	"	"	"	ACC	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3F2933	HKS	06/29/2023	06/29/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4

98.0 % 70-130

"

"

"

Surrogate: Toluene-d8

100 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

104 % 70-130

"

"

"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1490	5.00	mg/L	1	B3F3016	EMILI	06/30/2023	06/30/2023	
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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2933 - EPA 5030B (Water)

Blank (B3F2933-BLK1)

Prepared: 06/29/2023 Analyzed: 06/29/2023

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	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2933 - EPA 5030B (Water)

LCS (B3F2933-BS1)

Prepared: 06/29/2023 Analyzed: 06/29/2023

1,2,4-Trimethylbenzene	50.3	2.00	ug/L	50.0		101	70-130			
1,3,5-Trimethylbenzene	50.7	2.00	"	50.0		101	70-130			
Benzene	46.2	1.00	"	50.0		92.3	70-130			
Ethylbenzene	53.9	1.00	"	50.0		108	70-130			
m,p-Xylene	106	2.00	"	100		106	70-130			
Naphthalene	48.0	2.00	"	50.0		96.0	70-130			
o-Xylene	52.8	1.00	"	50.0		106	70-130			
Toluene	48.2	1.00	"	50.0		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	70-130			

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Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2933 - EPA 5030B (Water)

Matrix Spike (B3F2933-MS1)		Source: Y306797-01			Prepared: 06/29/2023 Analyzed: 06/29/2023					
1,2,4-Trimethylbenzene	50.6	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	51.5	2.00	"	50.0	ND	103	70-130			
Benzene	48.4	1.00	"	50.0	ND	96.8	70-130			
Ethylbenzene	53.4	1.00	"	50.0	ND	107	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	51.0	2.00	"	50.0	ND	102	70-130			
o-Xylene	53.3	1.00	"	50.0	ND	107	70-130			
Toluene	50.9	1.00	"	50.0	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.0	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2933 - EPA 5030B (Water)

Matrix Spike Dup (B3F2933-MSD1)		Source: Y306797-01			Prepared: 06/29/2023 Analyzed: 06/29/2023					
1,2,4-Trimethylbenzene	50.3	2.00	ug/L	50.0	ND	101	70-130	0.594	20	
1,3,5-Trimethylbenzene	49.8	2.00	"	50.0	ND	99.5	70-130	3.46	20	
Benzene	49.2	1.00	"	50.0	ND	98.3	70-130	1.54	20	
Ethylbenzene	51.9	1.00	"	50.0	ND	104	70-130	2.94	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	2.60	20	
Naphthalene	53.6	2.00	"	50.0	ND	107	70-130	4.89	20	
o-Xylene	50.8	1.00	"	50.0	ND	102	70-130	4.80	20	
Toluene	48.2	1.00	"	50.0	ND	96.5	70-130	5.31	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2937 - EPA 5030 (soil)

Blank (B3F2937-BLK1)

Prepared: 06/29/2023 Analyzed: 06/29/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3F2937 - EPA 5030 (soil)										
LCS (B3F2937-BS1)					Prepared: 06/29/2023 Analyzed: 06/29/2023					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0915	0.00200	"	0.100		91.5	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2937 - EPA 5030 (soil)

Matrix Spike (B3F2937-MS1)		Source: Y306823-01			Prepared: 06/29/2023 Analyzed: 06/29/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.100	0.00380	"	0.100	ND	100	70-130			
Toluene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2937 - EPA 5030 (soil)

Matrix Spike Dup (B3F2937-MSD1)		Source: Y306823-01			Prepared: 06/29/2023 Analyzed: 06/29/2023					
1,2,4-Trimethylbenzene	0.0899	0.00200	mg/kg	0.100	ND	89.9	70-130	11.6	20	
1,3,5-Trimethylbenzene	0.0921	0.00200	"	0.100	ND	92.1	70-130	11.1	20	
Benzene	0.0804	0.00200	"	0.100	ND	80.4	70-130	8.66	20	
Ethylbenzene	0.0932	0.00200	"	0.100	ND	93.2	70-130	9.74	20	
Naphthalene	0.0883	0.00380	"	0.100	ND	88.3	70-130	12.6	20	
Toluene	0.0863	0.00200	"	0.100	ND	86.3	70-130	8.69	20	
o-Xylene	0.0973	0.00200	"	0.100	ND	97.3	70-130	9.63	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130	9.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2940 - EPA 3050B

Blank (B3F2940-BLK1)

Prepared: 06/29/2023 Analyzed: 06/30/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3F2940-BS1)

Prepared: 06/29/2023 Analyzed: 06/30/2023

Arsenic	0.0529	0.000100	mg/kg	0.0500	106	80-120
Barium	5.10	0.0100	"	5.00	102	80-120
Cadmium	0.0541	0.000100	"	0.0500	108	80-120
Copper	0.559	0.0100	"	0.500	112	80-120
Lead	0.0518	0.0100	"	0.0500	104	80-120
Nickel	0.0551	0.0100	"	0.0500	110	80-120
Selenium	0.0500	0.000100	"	0.0500	100	80-120
Silver	0.0519	0.000100	"	0.0500	104	80-120
Zinc	0.533	0.100	"	0.500	107	80-120

Matrix Spike (B3F2940-MS1)

Source: Y306823-01

Prepared: 06/29/2023 Analyzed: 06/30/2023

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2940 - EPA 3050B

Matrix Spike (B3F2940-MS1)		Source: Y306823-01			Prepared: 06/29/2023 Analyzed: 06/30/2023					
Arsenic	9.57	0.0961	mg/kg	4.80	4.36	108	75-125			
Barium	628	9.61	"	480	150	99.5	75-125			
Cadmium	5.31	0.0961	"	4.80	0.187	107	75-125			
Copper	65.0	9.61	"	48.0	16.4	101	75-125			
Lead	15.5	9.61	"	4.80	10.3	108	75-125			
Nickel	20.1	9.61	"	4.80	14.9	107	75-125			
Selenium	4.62	0.0961	"	4.80	0.203	92.0	75-125			
Silver	4.93	0.0961	"	4.80	0.0627	101	75-125			
Zinc	102	96.1	"	48.0	55.5	96.7	75-125			
Matrix Spike Dup (B3F2940-MSD1)		Source: Y306823-01			Prepared: 06/29/2023 Analyzed: 06/30/2023					
Arsenic	9.40	0.0935	mg/kg	4.67	4.36	108	75-125	1.76	20	
Barium	625	9.35	"	467	150	102	75-125	0.506	20	
Cadmium	5.04	0.0935	"	4.67	0.187	104	75-125	5.31	20	
Copper	62.7	9.35	"	46.7	16.4	99.1	75-125	3.52	20	
Lead	15.2	9.35	"	4.67	10.3	105	75-125	1.84	20	
Nickel	20.1	9.35	"	4.67	14.9	110	75-125	0.157	20	
Selenium	4.34	0.0935	"	4.67	0.203	88.6	75-125	6.16	20	
Silver	4.73	0.0935	"	4.67	0.0627	99.8	75-125	4.06	20	
Zinc	100	93.5	"	46.7	55.5	95.9	75-125	1.60	20	

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3F2935 - EPA 3580

Blank (B3F2935-BLK1)

Prepared: 06/29/2023 Analyzed: 07/03/2023

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

Surrogate: Nitrobenzene-d5	230		ug/kg	200	115	60-130
Surrogate: 2-Fluorobiphenyl	200		"	200	100	60-130
Surrogate: Terphenyl-d14	200		"	200	98.9	60-130

LCS (B3F2935-BS1)

Prepared: 06/29/2023 Analyzed: 07/03/2023

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	104	70-130
2-Methylnaphthalene	0.218	0.002	"	0.200	109	70-130
Acenaphthene	0.212	0.020	"	0.200	106	70-130
Anthracene	0.216	0.020	"	0.200	108	70-130
Benzo (a) anthracene	0.187	0.005	"	0.200	93.3	70-130

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2935 - EPA 3580

LCS (B3F2935-BS1)

Prepared: 06/29/2023 Analyzed: 07/03/2023

Benzo (a) pyrene	0.190	0.020	mg/kg	0.200		95.2	70-130			
Benzo (b) fluoranthene	0.170	0.020	"	0.200		85.1	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.196	0.020	"	0.200		98.1	70-130			
Chrysene	0.217	0.020	"	0.200		109	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200		97.3	70-130			
Fluoranthene	0.233	0.020	"	0.200		116	70-130			
Fluorene	0.206	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.207	0.020	"	0.200		104	70-130			
Pyrene	0.217	0.020	"	0.200		108	70-130			
Surrogate: Nitrobenzene-d5	230		ug/kg	200		115	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		99.0	60-130			
Surrogate: Terphenyl-dl4	200		"	200		99.8	60-130			

Matrix Spike (B3F2935-MS1)

Source: Y306823-08

Prepared: 06/29/2023 Analyzed: 07/03/2023

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	ND	109	70-130			
2-Methylnaphthalene	0.221	0.002	"	0.200	ND	110	70-130			
Acenaphthene	0.221	0.020	"	0.200	ND	110	70-130			
Anthracene	0.223	0.020	"	0.200	ND	112	70-130			
Benzo (a) anthracene	0.192	0.005	"	0.200	ND	95.9	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200	0.004	99.0	70-130			
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.004	107	70-130			
Benzo (g,h,i) perylene	0.228	0.020	"	0.200	ND	114	70-130			
Benzo (k) fluoranthene	0.228	0.020	"	0.200	ND	114	70-130			
Chrysene	0.218	0.020	"	0.200	ND	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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3F2935 - EPA 3580

Matrix Spike (B3F2935-MS1)		Source: Y306823-08			Prepared: 06/29/2023 Analyzed: 07/03/2023					
Dibenz (a,h) anthracene	0.211	0.020	mg/kg	0.200	ND	106	70-130			
Fluoranthene	0.228	0.020	"	0.200	ND	114	70-130			
Fluorene	0.203	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.224	0.020	"	0.200	ND	112	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.213	0.020	"	0.200	ND	107	70-130			
Pyrene	0.203	0.020	"	0.200	ND	101	70-130			
Surrogate: Nitrobenzene-d5	230		ug/kg	200		113	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		102	60-130			
Surrogate: Terphenyl-dl4	190		"	200		93.0	60-130			

Matrix Spike Dup (B3F2935-MSD1)		Source: Y306823-08			Prepared: 06/29/2023 Analyzed: 07/03/2023					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	5.55	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	ND	103	70-130	6.67	20	
Acenaphthene	0.210	0.020	"	0.200	ND	105	70-130	4.79	20	
Anthracene	0.216	0.020	"	0.200	ND	108	70-130	3.27	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	ND	95.6	70-130	0.365	20	
Benzo (a) pyrene	0.190	0.020	"	0.200	0.004	93.0	70-130	6.08	20	
Benzo (b) fluoranthene	0.188	0.020	"	0.200	0.004	91.9	70-130	14.6	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	91.9	70-130	21.6	20	QR-02
Benzo (k) fluoranthene	0.197	0.020	"	0.200	ND	98.5	70-130	14.7	20	
Chrysene	0.228	0.020	"	0.200	ND	114	70-130	4.56	20	
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	94.0	70-130	11.7	20	
Fluoranthene	0.244	0.020	"	0.200	ND	122	70-130	6.73	20	
Fluorene	0.219	0.020	"	0.200	ND	110	70-130	7.86	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.5	70-130	13.8	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.6	70-130	3.38	20	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3F2935 - EPA 3580

Matrix Spike Dup (B3F2935-MSD1)		Source: Y306823-08			Prepared: 06/29/2023 Analyzed: 07/03/2023					
Phenanthrene	0.211	0.020	mg/kg	0.200	ND	105	70-130	1.33	20	
Pyrene	0.220	0.020	"	0.200	ND	110	70-130	8.01	20	
Surrogate: Nitrobenzene-d5	220		ug/kg	200		110	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		104	60-130			
Surrogate: Terphenyl-d14	220		"	200		111	60-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3F3002 - Filter .45um non acidified										
Blank (B3F3002-BLK1)					Prepared: 06/30/2023 Analyzed: 06/30/2023					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B3F3002-BS1)					Prepared: 06/30/2023 Analyzed: 06/30/2023					
Chloride	4.13	0.250	mg/L	4.00		103	90-110			
Sulfate	4.03	0.250	"	4.00		101	90-110			
Matrix Spike (B3F3002-MS1)		Source: Y306806-02			Prepared: 06/30/2023 Analyzed: 06/30/2023					
Chloride	812		mg/L	500	265	109	90-110			
Sulfate	830		"	500	300	106	90-110			
Matrix Spike Dup (B3F3002-MSD1)		Source: Y306806-02			Prepared: 06/30/2023 Analyzed: 06/30/2023					
Chloride	821		mg/L	500	265	111	90-110	1.15	5	QM-07
Sulfate	839		"	500	300	108	90-110	1.07	5	
Batch B3F3009 - DTPA Sorbitol Preparation										
Blank (B3F3009-BLK1)					Prepared: 06/30/2023 Analyzed: 07/03/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3F3009-DUP1)		Source: Y306820-09			Prepared: 06/30/2023 Analyzed: 07/03/2023					
Boron	2.49	0.100	mg/L		2.44			2.08	50	
Batch B3F3016 - NO PREP										
Blank (B3F3016-BLK1)					Prepared: 06/30/2023 Analyzed: 06/30/2023					
Total Dissolved Solids	ND	5.00	mg/L							

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3F3016 - NO PREP										
LCS (B3F3016-BS1)					Prepared: 06/30/2023 Analyzed: 06/30/2023					
Total Dissolved Solids	960	5.00	mg/L	1000		96.0	90-110			
Duplicate (B3F3016-DUP1)					Source: Y306823-11 Prepared: 06/30/2023 Analyzed: 06/30/2023					
Total Dissolved Solids	1470	5.00	mg/L		1490			1.35	10	

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Notes and Definitions

U Sample is Non-Detect.

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

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

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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July 31, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Junction 11,12,22-2 O SA Facility **Project Number - 09A1417263**

Attached are your analytical results for KMG - Junction 11,12,22-2 O SA Facility received by Origins Laboratory, Inc. July 24, 2023. This project is associated with Origins project number Y307492-01.

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@8'	Y307492-01	Soil	July 24, 2023 8:00	07/24/2023 15:13
B05@8'	Y307492-02	Soil	July 24, 2023 8:05	07/24/2023 15:13
E04@6'	Y307492-03	Soil	July 24, 2023 8:10	07/24/2023 15:13
AST03-GW01	Y307492-04	Water	July 24, 2023 10:00	07/24/2023 15:13
SEP02-N01@2'	Y307492-05	Soil	July 24, 2023 8:30	07/24/2023 15:13
SEP02-E01@2'	Y307492-06	Soil	July 24, 2023 8:35	07/24/2023 15:13
SEP02-S01@2'	Y307492-07	Soil	July 24, 2023 8:39	07/24/2023 15:13
SEP02-W01@2'	Y307492-08	Soil	July 24, 2023 8:42	07/24/2023 15:13
SEP02-B01@4'	Y307492-09	Soil	July 24, 2023 8:45	07/24/2023 15:13
FL01-GW01	Y307492-10	Water	July 24, 2023 9:45	07/24/2023 15:13
FL01-N01@4'	Y307492-11	Soil	July 24, 2023 9:00	07/24/2023 15:13
FL01-N02@4'	Y307492-12	Soil	July 24, 2023 9:05	07/24/2023 15:13
FL01-E01@4'	Y307492-13	Soil	July 24, 2023 9:10	07/24/2023 15:13
FL01-S01@4'	Y307492-14	Soil	July 24, 2023 9:15	07/24/2023 15:13

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-S02@4'	Y307492-15	Soil	July 24, 2023 9:20	07/24/2023 15:13
FL01-W01@4'	Y307492-16	Soil	July 24, 2023 9:25	07/24/2023 15:13
FL01-B01@6'	Y307492-17	Soil	July 24, 2023 9:30	07/24/2023 15:13
FL01-B02@6'	Y307492-18	Soil	July 24, 2023 9:35	07/24/2023 15:13

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Origins Laboratory

Origins Work Order: 4307492

Checklist Completed by: JWH/ELS

Date/time completed: 7/24/23

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

Cooler Number/Temperature: 1, 2 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 7004

Sample Receipt Checklist

Client: Ensolum

Client Project ID: Junction 11,12,22-2 OSA

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

Airbill #: N/A

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

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

Reviewed by (Project Manager): JWH

Date/Time Reviewed: 7/24/23

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B04@8'

7/24/2023 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.413	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
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Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	92.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	85.8 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B04@8'

7/24/2023 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"
Surrogate: Anthracene-d10	98.0 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"	"	"
Surrogate: Pyrene-d10	107 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.06	0.0959	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	61.7	9.59	"	"	"	EDM	"	"
Cadmium	0.0959	0.0959	"	"	"	EDM	"	"
Copper	ND	9.59	"	"	"	EDM	"	"
Nickel	ND	9.59	"	"	"	EDM	"	"
Selenium	0.115	0.0959	"	"	"	EDM	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B05@8'

7/24/2023 8:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.162	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
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Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	87.8 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

B05@8'

7/24/2023 8:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"
Surrogate: Anthracene-d10	97.9 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"	"	"
Surrogate: Pyrene-d10	115 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.44	0.0885	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	37.9	8.85	"	"	"	EDM	"	"
Cadmium	ND	0.0885	"	"	"	EDM	"	"
Copper	ND	8.85	"	"	"	EDM	"	"
Nickel	ND	8.85	"	"	"	EDM	"	"
Selenium	ND	0.0885	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E04@6'

7/24/2023 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-03 (Soil)

Boron (DTPA Sorbitol)

Boron	2.11	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
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Surrogate: 1,2-Dichloroethane-d4	101 %	70-130							
Surrogate: Toluene-d8	94.3 %	70-130							
Surrogate: 4-Bromofluorobenzene	87.7 %	70-130							

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	U
2-Methylnaphthalene	0.013	0.002	"	"	"	agile	"	"	
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

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

E04@6'

7/24/2023 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"
Surrogate: Anthracene-d10	97.3 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"	"
Surrogate: Pyrene-d10	105 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.25	0.0884	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	161	8.84	"	"	"	EDM	"	"
Cadmium	0.235	0.0884	"	"	"	EDM	"	"
Copper	13.7	8.84	"	"	"	EDM	"	"
Nickel	12.4	8.84	"	"	"	EDM	"	"
Selenium	0.199	0.0884	"	"	"	EDM	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

AST03-GW01

7/24/2023 10:00:00AM

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

Y307492-04 (Water)

Anions by IC 300.0

Chloride	114	31.2	mg/L	125	B3G2403	ACC	07/24/2023	07/25/2023	
Sulfate	574	31.2	"	"	"	ACC	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G2435	JSM	07/24/2023	07/24/2023	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

98.0 % 70-130

"

"

"

Surrogate: Toluene-d8

99.7 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

103 % 70-130

"

"

"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1430	5.00	mg/L	1	B3G2513	EC	07/25/2023	07/28/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-N01@2'
7/24/2023 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-05 (Soil)

Boron (DTPA Sorbitol)

Boron	2.21	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	93.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	88.2 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	U
2-Methylnaphthalene	0.002	0.002	"	"	"	agile	"	"	
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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-N01@2'
7/24/2023 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-05 (Soil)

PAH by EPA 8270E

Chrysene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	117 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.10	0.0978	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	153	9.78	"	"	"	EDM	"	"
Cadmium	0.258	0.0978	"	"	"	EDM	"	"
Copper	14.8	9.78	"	"	"	EDM	"	"
Lead	13.0	9.78	"	"	"	EDM	"	"
Nickel	13.1	9.78	"	"	"	EDM	"	"
Selenium	0.171	0.0978	"	"	"	EDM	"	"

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-E01@2'
7/24/2023 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.00	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.9 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-E01@2'
7/24/2023 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-06 (Soil)

PAH by EPA 8270E

Chrysene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Surrogate: Fluorene-d10	99.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	129 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.44	0.0899	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	155	8.99	"	"	"	EDM	"	"
Cadmium	0.126	0.0899	"	"	"	EDM	"	"
Copper	13.0	8.99	"	"	"	EDM	"	"
Lead	9.15	8.99	"	"	"	EDM	"	"
Nickel	12.0	8.99	"	"	"	EDM	"	"
Selenium	0.246	0.0899	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-S01@2'
7/24/2023 8:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-07 (Soil)

Boron (DTPA Sorbitol)

Boron	2.80	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.3 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-S01@2'
7/24/2023 8:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-07 (Soil)

PAH by EPA 8270E

Chrysene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	119 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.35	0.0907	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	168	9.07	"	"	"	EDM	"	"
Cadmium	0.299	0.0907	"	"	"	EDM	"	"
Copper	17.3	9.07	"	"	"	EDM	"	"
Lead	15.6	9.07	"	"	"	EDM	"	"
Nickel	14.6	9.07	"	"	"	EDM	"	"
Selenium	0.292	0.0907	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-W01@2'
7/24/2023 8:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.18	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	94.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.8 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-W01@2'

7/24/2023 8:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-08 (Soil)

PAH by EPA 8270E

Chrysene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.09	0.0918	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	150	9.18	"	"	"	EDM	"	"
Cadmium	0.218	0.0918	"	"	"	EDM	"	"
Copper	13.9	9.18	"	"	"	EDM	"	"
Lead	12.7	9.18	"	"	"	EDM	"	"
Nickel	11.8	9.18	"	"	"	EDM	"	"
Selenium	0.155	0.0918	"	"	"	EDM	"	"

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-B01@4'
7/24/2023 8:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.925	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	94.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.1 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-B01@4'
7/24/2023 8:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-09 (Soil)

PAH by EPA 8270E

Chrysene	ND	0.020	mg/kg	1	B3G2425	agile	07/24/2023	07/25/2023	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

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.91	0.0945	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	201	9.45	"	"	"	EDM	"	"
Cadmium	0.247	0.0945	"	"	"	EDM	"	"
Copper	16.4	9.45	"	"	"	EDM	"	"
Lead	11.7	9.45	"	"	"	EDM	"	"
Nickel	14.8	9.45	"	"	"	EDM	"	"
Selenium	0.208	0.0945	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-GW01

7/24/2023 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y307492-10 (Water)

Anions by IC 300.0

Chloride	160	31.2	mg/L	125	B3G2403	ACC	07/24/2023	07/25/2023	
Sulfate	777	31.2	"	"	"	ACC	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	3.87	2.00	ug/L	1	B3G2435	JSM	07/24/2023	07/24/2023	
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	97.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1590	5.00	mg/L	1	B3G2603	EC	07/26/2023	07/26/2023	
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-N01@4'

7/24/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.792	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	80.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	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	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	89.1 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.589	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-N01@4'

7/24/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-11 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	0.965	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	15.0	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	17.0		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	2.89	0.0972	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	71.0	9.72	"	"	"	EDM	"	"
Cadmium	ND	0.0972	"	"	"	EDM	"	"
Copper	ND	9.72	"	"	"	EDM	"	"
Lead	ND	9.72	"	"	"	EDM	"	"
Nickel	ND	9.72	"	"	"	EDM	"	"
Selenium	0.110	0.0972	"	"	"	EDM	"	"

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-N02@4'
7/24/2023 9:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.308	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

1,2,4-Trimethylbenzene	0.0177	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	0.00762	0.00200	"	"	"	HKS	"	"	
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	0.0170	0.00200	"	"	"	HKS	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	133 %	70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.555	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-N02@4'

7/24/2023 9:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-12 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	1.81	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	20.5	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	18.9		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	4.32	0.0882	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	206	8.82	"	"	"	EDM	"	"
Cadmium	0.280	0.0882	"	"	"	EDM	"	"
Copper	18.5	8.82	"	"	"	EDM	"	"
Lead	11.0	8.82	"	"	"	EDM	"	"
Nickel	29.2	8.82	"	"	"	EDM	"	"
Selenium	0.115	0.0882	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-E01@4'

7/24/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.991	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	75.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HKS	07/24/2023	07/25/2023	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	1.67	0.200	"	"	"	HKS	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.73	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-E01@4'

7/24/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-13 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	3.15	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	13.0	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	7.55		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	2.67	0.0926	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	95.6	9.26	"	"	"	EDM	"	"
Cadmium	0.122	0.0926	"	"	"	EDM	"	"
Copper	9.88	9.26	"	"	"	EDM	"	"
Lead	ND	9.26	"	"	"	EDM	"	"
Nickel	10.3	9.26	"	"	"	EDM	"	"
Selenium	0.150	0.0926	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-S01@4'
7/24/2023 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.961	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HK	07/24/2023	07/25/2023	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	115 %	70-130			"	"	"
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.950	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-S01@4'

7/24/2023 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-14 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	2.15	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	18.4	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	14.8		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	3.82	0.0875	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	130	8.75	"	"	"	EDM	"	"
Cadmium	0.164	0.0875	"	"	"	EDM	"	"
Copper	39.0	8.75	"	"	"	EDM	"	"
Lead	14.2	8.75	"	"	"	EDM	"	"
Nickel	18.7	8.75	"	"	"	EDM	"	"
Selenium	0.160	0.0875	"	"	"	EDM	"	"

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-S02@4'
7/24/2023 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.554	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	81.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HK	07/24/2023	07/25/2023	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	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.01	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-S02@4'

7/24/2023 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-15 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	8.85	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	25.6	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	9.74		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	3.43	0.0904	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	129	9.04	"	"	"	EDM	"	"
Cadmium	0.111	0.0904	"	"	"	EDM	"	"
Copper	16.6	9.04	"	"	"	EDM	"	"
Lead	10.9	9.04	"	"	"	EDM	"	"
Nickel	15.5	9.04	"	"	"	EDM	"	"
Selenium	0.117	0.0904	"	"	"	EDM	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-W01@4'

7/24/2023 9:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-16 (Soil)

Boron (DTPA Sorbitol)

Boron	1.85	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HK	07/24/2023	07/25/2023	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	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.72	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-W01@4'

7/24/2023 9:25:00AM

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

Y307492-16 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	7.08	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	14.3	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	5.27		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	3.24	0.0932	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	128	9.32	"	"	"	EDM	"	"
Cadmium	0.201	0.0932	"	"	"	EDM	"	"
Copper	11.7	9.32	"	"	"	EDM	"	"
Lead	10.7	9.32	"	"	"	EDM	"	"
Nickel	10.8	9.32	"	"	"	EDM	"	"
Selenium	0.148	0.0932	"	"	"	EDM	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-B01@6'

7/24/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-17 (Soil)

Boron (DTPA Sorbitol)

Boron	1.06	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	77.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2426	HK	07/24/2023	07/25/2023	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	1.54	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.25	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
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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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-B01@6'

7/24/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-17 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	3.50	0.823	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
Sodium	6.97	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	3.79		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	2.51	0.0850	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	121	8.50	"	"	"	EDM	"	"
Cadmium	0.210	0.0850	"	"	"	EDM	"	"
Copper	11.8	8.50	"	"	"	EDM	"	"
Lead	11.1	8.50	"	"	"	EDM	"	"
Nickel	10.7	8.50	"	"	"	EDM	"	"
Selenium	0.144	0.0850	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-B02@6'
7/24/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-18 (Soil)

Boron (DTPA Sorbitol)

Boron	0.423	0.100	mg/L	1	B3G2504	KAP	07/25/2023	07/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	40.5	25.0	mg/kg	1	B3G2424	ZZZ	07/24/2023	07/25/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.326	0.00200	mg/kg	1	B3G2426	HK	07/24/2023	07/25/2023	
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	0.0236	0.00200	"	"	"	HK	"	"	
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	0.0157	0.00200	"	"	"	HK	"	"	
Gasoline Range Hydrocarbons	20.9	5.00	"	25	"	HKS	"	07/25/2023	

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	07/25/2023	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	197 %	70-130			"	"	"	S-GC

Metals by Saturated Paste by EPA 6010

Calcium	1.82	0.499	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023	
Magnesium	2.19	0.823	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01-B02@6'

7/24/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307492-18 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	8.14	0.435	meq/L	10	[CALC]	KAP	07/25/2023	07/26/2023
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SAR by 20B Saturated Paste

SAR	5.74		SAR	1	B3G2501	KAP	"	"
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Table 915 metals by EPA 6020B

Arsenic	1.79	0.0936	mg/kg	10	B3G2423	EDM	07/24/2023	07/25/2023
Barium	58.0	9.36	"	"	"	EDM	"	"
Cadmium	ND	0.0936	"	"	"	EDM	"	"
Copper	ND	9.36	"	"	"	EDM	"	"
Lead	ND	9.36	"	"	"	EDM	"	"
Nickel	ND	9.36	"	"	"	EDM	"	"
Selenium	ND	0.0936	"	"	"	EDM	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2424 - EPA 3550B										
Blank (B3G2424-BLK1)					Prepared: 07/24/2023 Analyzed: 07/24/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.8	50-150			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2424 - EPA 3550B

LCS (B3G2424-BS1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

Diesel (C10-C28)	816	50.0	mg/kg	1000		81.6	70-130			
Residual Range Organics (C28-C40)	872	200	"	1000		87.2	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2424 - EPA 3550B

Matrix Spike (B3G2424-MS1)		Source: Y307492-11			Prepared: 07/24/2023 Analyzed: 07/25/2023					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2424 - EPA 3550B

Matrix Spike Dup (B3G2424-MSD1)		Source: Y307492-11			Prepared: 07/24/2023 Analyzed: 07/25/2023					
Diesel (C10-C28)	819	50.0	mg/kg	1000	ND	81.9	70-130	13.6	35	
Residual Range Organics (C28-C40)	870	200	"	1000	ND	87.0	70-130	13.2	35	
Surrogate: o-Terphenyl	45		"	49.8		90.8	50-150			

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Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2426 - EPA 5030 (soil)										
Blank (B3G2426-BLK1)					Prepared: 07/24/2023 Analyzed: 07/25/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.8	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2426 - EPA 5030 (soil)

LCS (B3G2426-BS1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

1,2,4-Trimethylbenzene	0.0945	0.00200	mg/kg	0.100		94.5	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100		96.9	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0920	0.00200	"	0.100		92.0	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0966	0.00200	"	0.100		96.6	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.3	70-130			

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Project: KMG - Junction 11,12,22-2 O SA 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 B3G2426 - EPA 5030 (soil)										
Matrix Spike (B3G2426-MS1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
1,2,4-Trimethylbenzene	0.0755	0.00200	mg/kg	0.100	ND	75.5	70-130			
1,3,5-Trimethylbenzene	0.0752	0.00200	"	0.100	ND	75.2	70-130			
Benzene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
Ethylbenzene	0.0709	0.00200	"	0.100	ND	70.9	70-130			
Naphthalene	0.0763	0.00380	"	0.100	0.000520	75.7	70-130			
Toluene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
o-Xylene	0.0689	0.00200	"	0.100	ND	68.9	70-130			QM-07
m,p-Xylene	0.142	0.00400	"	0.200	ND	70.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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Jeremy Espinoza

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Project: KMG - Junction 11,12,22-2 O SA 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 B3G2426 - EPA 5030 (soil)

Matrix Spike Dup (B3G2426-MSD1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
1,2,4-Trimethylbenzene	0.0892	0.00200	mg/kg	0.100	ND	89.2	70-130	16.6	20	
1,3,5-Trimethylbenzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	23.0	20	QR-02
Benzene	0.0962	0.00200	"	0.100	ND	96.2	70-130	20.4	20	QR-02
Ethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	19.3	20	
Naphthalene	0.104	0.00380	"	0.100	0.000520	103	70-130	30.6	20	QR-02
Toluene	0.0980	0.00200	"	0.100	ND	98.0	70-130	20.8	20	QR-02
o-Xylene	0.0895	0.00200	"	0.100	ND	89.5	70-130	26.0	20	QR-02
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.6	70-130	21.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project: KMG - Junction 11,12,22-2 O SA 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 B3G2435 - EPA 5030B (Water)

Blank (B3G2435-BLK1)

Prepared: 07/24/2023 Analyzed: 07/24/2023

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	62		"	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		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 B3G2435 - EPA 5030B (Water)

LCS (B3G2435-BS1)

Prepared: 07/24/2023 Analyzed: 07/24/2023

1,2,4-Trimethylbenzene	51.3	2.00	ug/L	50.0		103	70-130			
1,3,5-Trimethylbenzene	52.6	2.00	"	50.0		105	70-130			
Benzene	53.6	1.00	"	50.0		107	70-130			
Ethylbenzene	52.2	1.00	"	50.0		104	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
Naphthalene	56.4	2.00	"	50.0		113	70-130			
o-Xylene	46.6	1.00	"	50.0		93.3	70-130			
Toluene	52.9	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	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 B3G2435 - EPA 5030B (Water)

Matrix Spike (B3G2435-MS1)		Source: Y307483-01			Prepared: 07/24/2023 Analyzed: 07/24/2023					
1,2,4-Trimethylbenzene	53.5	2.00	ug/L	50.0	ND	107	70-130			
1,3,5-Trimethylbenzene	55.9	2.00	"	50.0	ND	112	70-130			
Benzene	55.1	1.00	"	50.0	ND	110	70-130			
Ethylbenzene	55.6	1.00	"	50.0	ND	111	70-130			
m,p-Xylene	109	2.00	"	100	ND	109	70-130			
Naphthalene	53.1	2.00	"	50.0	ND	106	70-130			
o-Xylene	53.9	1.00	"	50.0	ND	108	70-130			
Toluene	53.6	1.00	"	50.0	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	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 B3G2435 - EPA 5030B (Water)

Matrix Spike Dup (B3G2435-MSD1)		Source: Y307483-01			Prepared: 07/24/2023 Analyzed: 07/24/2023					
1,2,4-Trimethylbenzene	56.4	2.00	ug/L	50.0	ND	113	70-130	5.24	20	
1,3,5-Trimethylbenzene	58.8	2.00	"	50.0	ND	118	70-130	5.20	20	
Benzene	58.6	1.00	"	50.0	ND	117	70-130	6.07	20	
Ethylbenzene	58.8	1.00	"	50.0	ND	118	70-130	5.59	20	
m,p-Xylene	116	2.00	"	100	ND	116	70-130	6.03	20	
Naphthalene	56.0	2.00	"	50.0	ND	112	70-130	5.33	20	
o-Xylene	56.1	1.00	"	50.0	ND	112	70-130	3.87	20	
Toluene	57.4	1.00	"	50.0	ND	115	70-130	6.97	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

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

Origins Laboratory, Inc.

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G2423 - EPA 3050B

Blank (B3G2423-BLK1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"

LCS (B3G2423-BS1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

Arsenic	0.0463	0.000100	mg/kg	0.0500	92.7	80-120
Barium	4.97	0.0100	"	5.00	99.4	80-120
Cadmium	0.0512	0.000100	"	0.0500	102	80-120
Copper	0.510	0.0100	"	0.500	102	80-120
Lead	0.0505	0.0100	"	0.0500	101	80-120
Nickel	0.0481	0.0100	"	0.0500	96.2	80-120
Selenium	0.0464	0.000100	"	0.0500	92.8	80-120

Matrix Spike (B3G2423-MS1)

Source: Y307492-01

Prepared: 07/24/2023 Analyzed: 07/25/2023

Arsenic	5.10	0.0946	mg/kg	4.73	2.06	64.1	75-125	QM-07
Barium	497	9.46	"	473	61.7	92.0	75-125	
Cadmium	4.87	0.0946	"	4.73	0.0959	101	75-125	
Copper	51.5	9.46	"	47.3	8.71	90.5	75-125	

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Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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
Batch B3G2423 - EPA 3050B										
Matrix Spike (B3G2423-MS1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
Lead	8.88	9.46	mg/kg	4.73	7.32	33.0	75-125			QM-07
Nickel	8.77	9.46	"	4.73	7.65	23.7	75-125			QM-07
Selenium	4.32	0.0946	"	4.73	0.115	88.9	75-125			
Matrix Spike Dup (B3G2423-MSD1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
Arsenic	9.06	0.0964	mg/kg	4.82	2.06	145	75-125	56.0	20	QM-07
Barium	533	9.64	"	482	61.7	97.8	75-125	7.00	20	
Cadmium	5.06	0.0964	"	4.82	0.0959	103	75-125	3.74	20	
Copper	57.1	9.64	"	48.2	8.71	100	75-125	10.2	20	
Lead	12.9	9.64	"	4.82	7.32	115	75-125	36.7	20	QM-07
Nickel	14.0	9.64	"	4.82	7.65	132	75-125	46.0	20	QM-07
Selenium	4.51	0.0964	"	4.82	0.115	91.2	75-125	4.27	20	

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3G2425 - EPA 3580

Blank (B3G2425-BLK1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			

LCS (B3G2425-BS1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

1-Methylnaphthalene	0.181	0.002	mg/kg	0.200		90.6	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.4	70-130			
Acenaphthene	0.178	0.020	"	0.200		89.1	70-130			
Anthracene	0.146	0.020	"	0.200		73.0	70-130			

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Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA 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 B3G2425 - EPA 3580

LCS (B3G2425-BS1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		91.8	70-130
Benzo (a) pyrene	0.181	0.020	"	0.200		90.5	70-130
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.6	70-130
Benzo (g,h,i) perylene	0.176	0.020	"	0.200		88.1	70-130
Benzo (k) fluoranthene	0.176	0.020	"	0.200		87.9	70-130
Chrysene	0.172	0.020	"	0.200		85.9	70-130
Dibenz (a,h) anthracene	0.204	0.020	"	0.200		102	70-130
Fluoranthene	0.175	0.020	"	0.200		87.4	70-130
Fluorene	0.182	0.020	"	0.200		90.8	70-130
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200		89.3	70-130
Naphthalene	0.199	0.002	"	0.200		99.6	70-130
Phenanthrene	0.166	0.020	"	0.200		83.0	70-130
Pyrene	0.198	0.020	"	0.200		99.2	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	200		"	200		97.8	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130
Surrogate: Pyrene-d10	210		"	200		107	60-130

Matrix Spike (B3G2425-MS1)

Source: Y307492-01

Prepared: 07/24/2023 Analyzed: 07/25/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	ND	94.0	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	99.8	70-130
Acenaphthene	0.186	0.020	"	0.200	0.0004	93.0	70-130
Anthracene	0.153	0.020	"	0.200	ND	76.7	70-130
Benzo (a) anthracene	0.178	0.005	"	0.200	ND	89.2	70-130
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.7	70-130
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.0003	97.1	70-130
Benzo (g,h,i) perylene	0.182	0.020	"	0.200	ND	91.1	70-130

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA 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 B3G2425 - EPA 3580

Matrix Spike (B3G2425-MS1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
Benzo (k) fluoranthene	0.179	0.020	mg/kg	0.200	0.0008	88.9	70-130			
Chrysene	0.182	0.020	"	0.200	0.001	90.6	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.188	0.020	"	0.200	0.002	93.1	70-130			
Fluorene	0.191	0.020	"	0.200	ND	95.4	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.9	70-130			
Naphthalene	0.204	0.002	"	0.200	0.0009	101	70-130			
Phenanthrene	0.178	0.020	"	0.200	ND	88.9	70-130			
Pyrene	0.218	0.020	"	0.200	0.005	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			

Matrix Spike Dup (B3G2425-MSD1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	96.9	70-130	3.05	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.7	70-130	1.16	20	
Acenaphthene	0.183	0.020	"	0.200	0.0004	91.5	70-130	1.70	20	
Anthracene	0.150	0.020	"	0.200	ND	74.9	70-130	2.42	20	
Benzo (a) anthracene	0.172	0.005	"	0.200	ND	85.9	70-130	3.77	20	
Benzo (a) pyrene	0.167	0.020	"	0.200	ND	83.7	70-130	7.00	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.0003	100	70-130	3.00	20	
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	ND	90.2	70-130	0.950	20	
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.0008	92.7	70-130	4.18	20	
Chrysene	0.189	0.020	"	0.200	0.001	93.7	70-130	3.39	20	
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	ND	107	70-130	1.35	20	
Fluoranthene	0.184	0.020	"	0.200	0.002	91.2	70-130	1.97	20	

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G2425 - EPA 3580

Matrix Spike Dup (B3G2425-MSD1)		Source: Y307492-01			Prepared: 07/24/2023 Analyzed: 07/25/2023					
Fluorene	0.185	0.020	mg/kg	0.200	ND	92.3	70-130	3.35	20	
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200	ND	91.8	70-130	1.02	20	
Naphthalene	0.207	0.002	"	0.200	0.0009	103	70-130	1.55	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.4	70-130	1.76	20	
Pyrene	0.213	0.020	"	0.200	0.005	104	70-130	2.01	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			

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Project: KMG - Junction 11,12,22-2 O SA 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 B3G2403 - Filter .45um non acidified										
Blank (B3G2403-BLK1)					Prepared: 07/24/2023 Analyzed: 07/25/2023					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B3G2403-BS1)					Prepared: 07/24/2023 Analyzed: 07/25/2023					
Chloride	3.98	0.250	mg/L	4.00		99.6	90-110			
Sulfate	3.97	0.250	"	4.00		99.3	90-110			
Matrix Spike (B3G2403-MS1)					Source: Y307477-14		Prepared: 07/24/2023 Analyzed: 07/25/2023			
Chloride	523		mg/L	500	15.7	102	90-110			
Sulfate	548		"	500	39.5	102	90-110			
Matrix Spike Dup (B3G2403-MSD1)					Source: Y307477-14		Prepared: 07/24/2023 Analyzed: 07/25/2023			
Chloride	522		mg/L	500	15.7	101	90-110	0.352	5	
Sulfate	547		"	500	39.5	102	90-110	0.0913	5	
Batch B3G2501 - Saturated Paste Metals										
Blank (B3G2501-BLK1)					Prepared: 07/25/2023 Analyzed: 07/26/2023					
SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B3G2501-DUP1)					Source: Y307495-01		Prepared: 07/25/2023 Analyzed: 07/26/2023			
SAR	0.00		SAR		4.18			200	200	
Calcium PPM	30.0	10.0	mg/L		64.8			73.4	50	QR-DUP
Magnesium PPM	29.8	10.0	"		18.5			46.8	50	
Sodium PPM	565	10.0	"		148			117	50	QR-DUP

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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 B3G2504 - DTPA Sorbitol Preparation										
Blank (B3G2504-BLK1)					Prepared: 07/25/2023 Analyzed: 07/26/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3G2504-DUP1)					Source: Y307492-01 Prepared: 07/25/2023 Analyzed: 07/26/2023					
Boron	0.326	0.100	mg/L		0.413			23.4	50	
Batch B3G2513 - NO PREP										
Blank (B3G2513-BLK1)					Prepared: 07/25/2023 Analyzed: 07/28/2023					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3G2513-BS1)					Prepared: 07/25/2023 Analyzed: 07/28/2023					
Total Dissolved Solids	1000	5.00	mg/L	1000		100	90-110			
Duplicate (B3G2513-DUP1)					Source: Y307477-22 Prepared: 07/25/2023 Analyzed: 07/28/2023					
Total Dissolved Solids	1150	5.00	mg/L		1270			9.92	10	
Batch B3G2603 - NO PREP										
Blank (B3G2603-BLK1)					Prepared: 07/26/2023 Analyzed: 07/26/2023					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3G2603-BS1)					Prepared: 07/26/2023 Analyzed: 07/26/2023					
Total Dissolved Solids	995	5.00	mg/L	1000		99.5	90-110			
Duplicate (B3G2603-DUP1)					Source: Y307413-01 Prepared: 07/26/2023 Analyzed: 07/26/2023					
Total Dissolved Solids	586	5.00	mg/L		748			24.3	10	QR-DUP

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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.

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

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.

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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