

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SB01@5'	SB02@1'	SB02@5'	SB03@1'	SB04@3'
		8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Photoionization Detector Reading						
PID (ppm)	NA	355.7	0.9	6.2	0.8	101.5
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<25	<25	<25	<25	<25
TPH-DRO* (mg/kg)	500	67	<25	38	<25	<25
TPH-RRO* (mg/kg)	500	<100	<100	<100	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.050	<0.002	<0.050	<0.002	<0.002
Toluene (mg/kg)	0.69	<0.050	<0.002	<0.050	<0.002	<0.002
Ethylbenzene (mg/kg)	0.78	<0.050	<0.002	<0.050	<0.002	<0.002
Xylenes, Total (mg/kg)	9.9	<0.050	<0.002	<0.050	<0.002	<0.002
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	NA	NA	NA
Barium (mg/Kg)	82	NA	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	NA	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SB05@3'	SB05@5'	SB06@3'	SB06@5'	SB07@3'
		8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Photoionization Detector Reading						
PID (ppm)	NA	0.0	0.0	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<25	<25	45	<25	<25
TPH-DRO* (mg/kg)	500	<25	<25	<25	<25	<25
TPH-RRO* (mg/kg)	500	<100	<100	<100	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene (mg/kg)	0.69	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene (mg/kg)	0.78	<0.002	<0.002	<0.002	<0.002	<0.002
Xylenes, Total (mg/kg)	9.9	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	NA	NA	NA
Barium (mg/Kg)	82	NA	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	NA	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SB07@5'	UTSB01 West@3'	UTSB02 East@3'	SB08@1'	SB08@3'
		8/4/2015	8/4/2015	8/4/2015	8/6/2015	8/6/2015
Photoionization Detector Reading						
PID (ppm)	NA	0.3	1033	906.7	5.2	2.1
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<25	100	880	<25	<25
TPH-DRO* (mg/kg)	500	<25	150	730	<25	<25
TPH-RRO* (mg/kg)	500	<100	<100	140	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.002	2.61	9.05	<0.002	<0.002
Toluene (mg/kg)	0.69	<0.002	<0.050	4.90	<0.002	<0.002
Ethylbenzene (mg/kg)	0.78	<0.002	1.21	4.83	<0.002	<0.002
Xylenes, Total (mg/kg)	9.9	<0.002	8.48	63.6	<0.002	<0.002
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	NA	NA	NA
Barium (mg/Kg)	82	NA	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	NA	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	UTSB03West@3'	UTSB04East@3'	B01@8'	B02@8'	N01@4'
		5/20/2020	5/20/2020	7/21/2021	7/21/2021	7/21/2021
Photoionization Detector Reading						
PID (ppm)	NA	1164	1563	162.7	221.5	51.2
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	1280	347	14.6	43.0	0.278
TPH-DRO* (mg/kg)	500	283	32.7	68.9	150	<25.0
TPH-RRO* (mg/kg)	500	<100	<100	<100	<100	121
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	0.834	1.19	0.474
Sodium Adsorption Ratio (SAR)	6	NA	NA	5.11	8.68	1.15
pH, Lab (pH units)	6-8.3	NA	NA	7.66	7.81	7.30
Boron (mg/L)	2	NA	NA	<0.202	<0.200	0.362
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	6.26	1.34	0.0351	0.166	0.00230
Toluene (mg/kg)	0.69	<0.0500	<0.0500	<0.00200	<0.00200	<0.00200
Ethylbenzene (mg/kg)	0.78	4.95	0.856	0.0198	0.100	<0.00200
Xylenes, Total (mg/kg)	9.9	45.2	1.16	0.209	0.589	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	0.164	0.536	0.0128
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	0.0924	0.224	<0.00200
Acenaphthene (mg/Kg)	0.55	NA	NA	<0.00067	<0.00335	<0.00067
Anthracene (mg/Kg)	5.8	NA	NA	<0.00067	<0.00335	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	<0.00067	<0.00335	<0.00067
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	<0.00067	<0.00335	<0.00067
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	<0.00067	<0.00335	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	<0.00067	<0.00335	<0.00067
Chrysene (mg/Kg)	9	NA	NA	0.00135	0.0026	<0.00067
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	<0.00067	<0.00335	<0.00067
Fluoranthene (mg/Kg)	8.9	NA	NA	<0.00067	<0.00335	<0.00067
Fluorene (mg/Kg)	0.54	NA	NA	0.00546	0.0269	<0.00067
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	<0.00067	<0.00335	<0.00067
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	0.0107	0.0964	0.000862
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	0.023	0.226	0.00164
Naphthalene (mg/Kg)	0.0038	NA	NA	0.00311	0.0478	0.00363
Pyrene (mg/Kg)	1.3	NA	NA	0.000721	<0.00335	<0.00067
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	0.385	0.295	0.814
Barium (mg/Kg)	82	NA	NA	9.46	15.1	136
Cadmium (mg/Kg)	0.38	NA	NA	<0.25	<0.25	0.141
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	<0.514	<0.519	<2.5
Copper (mg/Kg)	46	NA	NA	1.27	1.58	9.39
Lead (mg/Kg)	14	NA	NA	1.29	1.75	10
Nickel (mg/Kg)	26	NA	NA	0.838	1.1	8.76
Selenium (mg/Kg)	0.26	NA	NA	0.134	0.189	0.529
Silver (mg/Kg)	0.8	NA	NA	0.0091	0.0123	0.0639
Zinc (mg/Kg)	370	NA	NA	9.08	8.55	64

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG01@4'	Native-BG01@8'	Native-BG02@4'	Native-BG02@8'	Native-BG03@4'
		7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021
Photoionization Detector Reading						
PID (ppm)	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.238	0.397	1.07	1.67	0.528
Sodium Adsorption Ratio (SAR)	6	1.15	2.74	4.75	5.80	4.40
pH, Lab (pH units)	6-8.3	8.12	7.71	7.02	7.62	7.62
Boron (mg/L)	2	<0.200	<0.199	0.297	<0.201	<0.201
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.461	0.296	2.31	0.617	0.301
Barium (mg/Kg)	82	19.8	16	163	34.7	6.13
Cadmium (mg/Kg)	0.38	0.0628	<0.25	0.194	0.0452	<0.25
Chromium, Hexavalent (mg/Kg)	0.00067	<0.506	<0.5	<5.07	<1	<0.52
Copper (mg/Kg)	46	1.43	0.967	13.8	3.04	0.68
Lead (mg/Kg)	14	1.82	2.13	13.9	3.61	0.982
Nickel (mg/Kg)	26	2.14	1.02	10.1	2.05	0.594
Selenium (mg/Kg)	0.26	0.208	0.197	0.847	0.343	0.202
Silver (mg/Kg)	0.8	0.0106	0.0135	0.0742	0.0288	0.0093
Zinc (mg/Kg)	370	9.52	6.91	80.8	14.9	4.64

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG03@8'	PH01@8'	S01@4'	W01@4'	W02@4'
		7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021
Photoionization Detector Reading						
PID (ppm)	NA	NA	277.1	361.5	1141	421.7
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	76.0	1.28	19.7	18.3
TPH-DRO* (mg/kg)	500	NA	209	<25.0	204	297
TPH-RRO* (mg/kg)	500	NA	<100	<100	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.475	0.542	1.72	3.61	2.37
Sodium Adsorption Ratio (SAR)	6	4.32	2.83	7.52	16.8	14.7
pH, Lab (pH units)	6-8.3	8.20	7.72	7.73	7.28	7.29
Boron (mg/L)	2	<0.199	<0.199	0.340	0.299	0.362
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	<0.00200	0.0275	0.352	0.0110
Toluene (mg/kg)	0.69	NA	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene (mg/kg)	0.78	NA	<0.00200	<0.00200	0.00660	<0.00200
Xylenes, Total (mg/kg)	9.9	NA	0.00274	<0.00200	<0.00200	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	<0.00200	0.0605	0.0345
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	<0.00200	<0.00200	<0.00200	<0.00200
Acenaphthene (mg/Kg)	0.55	NA	<0.0067	<0.00335	<0.00335	<0.00335
Anthracene (mg/Kg)	5.8	NA	<0.0067	<0.00335	0.00662	<0.00335
Benzo (a) anthracene (mg/Kg)	0.011	NA	<0.0067	<0.00335	0.00262	<0.00335
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	<0.0067	<0.00335	<0.00335	<0.00335
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.0067	<0.00335	<0.00335	<0.00335
Benzo (a) pyrene (mg/Kg)	0.24	NA	<0.0067	<0.00335	<0.00335	<0.00335
Chrysene (mg/Kg)	9	NA	0.0177	<0.00335	0.0101	<0.00335
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.0067	<0.00335	<0.00335	<0.00335
Fluoranthene (mg/Kg)	8.9	NA	<0.0067	<0.00335	<0.00335	<0.00335
Fluorene (mg/Kg)	0.54	NA	0.0383	0.0143	0.114	0.0199
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	<0.0067	<0.00335	<0.00335	<0.00335
1-Methylnaphthalene (mg/Kg)	0.006	NA	0.005	0.0333	0.592	0.109
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.0067	0.0434	1.53	0.259
Naphthalene (mg/Kg)	0.0038	NA	0.00766	0.0161	0.373	0.0654
Pyrene (mg/Kg)	1.3	NA	0.00607	<0.00335	0.00721	<0.00335
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.529	0.5	0.989	1.52	1.16
Barium (mg/Kg)	82	5.63	17.3	189	191	174
Cadmium (mg/Kg)	0.38	0.0637	0.0348	0.361	0.503	0.215
Chromium, Hexavalent (mg/Kg)	0.00067	<0.503	<0.503	<2.5	<5.11	<5
Copper (mg/Kg)	46	1.19	1.81	13.5	17.7	15.9
Lead (mg/Kg)	14	1.47	2.89	13.8	16.3	13.5
Nickel (mg/Kg)	26	0.683	1.21	13.7	18.1	13.6
Selenium (mg/Kg)	0.26	0.217	0.309	0.861	1	0.764
Silver (mg/Kg)	0.8	0.0098	0.011	0.0786	0.105	0.0918
Zinc (mg/Kg)	370	8.18	11.3	86.7	100	91.6

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B03@8'	B04@8'	N02@4'	S02@4'	B05@8'
		7/23/2021	7/23/2021	7/23/2021	7/23/2021	7/26/2021
Photoionization Detector Reading						
PID (ppm)	NA	16.4	142.9	56.2	6.6	16.5
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	1.28	19.6	12.7	4.57	1.16
TPH-DRO* (mg/kg)	500	<25.0	63.3	1190	43.7	<25.0
TPH-RRO* (mg/kg)	500	<100	<100	384	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.32	0.995	1.56	1.45	0.697
Sodium Adsorption Ratio (SAR)	6	4.97	3.45	2.34	4.11	2.19
pH, Lab (pH units)	6-8.3	7.58	7.69	7.42	7.54	7.77
Boron (mg/L)	2	0.00297	<0.199	0.300	0.483	<0.198
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	0.0197	0.0261	0.00316	<0.00200	<0.00200
Toluene (mg/kg)	0.69	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene (mg/kg)	0.78	0.00812	0.0231	<0.00200	<0.00200	<0.00200
Xylenes, Total (mg/kg)	9.9	0.0103	0.228	<0.00200	<0.00200	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	0.0248	0.208	<0.00200	<0.00200	0.00264
1,3,5-Trimethylbenzene (mg/kg)	0.0087	0.00820	0.116	<0.00200	<0.00200	<0.00200
Acenaphthene (mg/Kg)	0.55	<0.00067	<0.00067	<0.00335	<0.00335	<0.00067
Anthracene (mg/Kg)	5.8	<0.00067	0.000472	0.00317	<0.00335	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	<0.00067	<0.00067	<0.00335	<0.00335	0.000521
Benzo (b) fluoranthene (mg/Kg)	0.3	0.00028	0.000356	<0.00335	<0.00335	<0.00067
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00067	<0.00067	<0.00335	<0.00335	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	0.000421	0.000424	<0.00335	0.0012	<0.00067
Chrysene (mg/Kg)	9	0.00117	0.00174	0.00862	0.00211	0.000726
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	<0.00067	<0.00335	<0.00335	<0.00067
Fluoranthene (mg/Kg)	8.9	<0.00067	<0.00067	<0.00335	<0.00335	<0.00067
Fluorene (mg/Kg)	0.54	0.000558	0.00936	0.015	0.015	<0.00067
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00067	0.000354	<0.00335	<0.00335	<0.00067
1-Methylnaphthalene (mg/Kg)	0.006	0.000719	0.0273	0.00373	<0.00335	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	0.000783	0.0621	0.00281	<0.00335	0.000793
Naphthalene (mg/Kg)	0.0038	0.000945	0.012	<0.00335	<0.00335	<0.00067
Pyrene (mg/Kg)	1.3	<0.00067	0.00101	0.00392	<0.00335	0.000458
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.17	1	2.3	0.979	<0.25
Barium (mg/Kg)	82	56.4	47.1	84.4	102	3.91
Cadmium (mg/Kg)	0.38	0.118	0.0796	0.276	0.164	<0.25
Chromium, Hexavalent (mg/Kg)	0.00067	<1.01	<0.5	<1	<2.51	<0.517
Copper (mg/Kg)	46	6.49	5.6	11.1	11.8	0.565
Lead (mg/Kg)	14	7.15	6.28	9.44	10	0.931
Nickel (mg/Kg)	26	5.04	3.82	10.6	8.51	0.604
Selenium (mg/Kg)	0.26	0.338	0.35	0.488	0.589	0.175
Silver (mg/Kg)	0.8	0.0591	0.0369	0.0667	0.0745	<0.25
Zinc (mg/Kg)	370	26.8	25.6	44.1	60.5	4.83

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B06@8'	E01@4'	E02@4'	N03@4'	S03@4'
		7/26/2021	7/26/2021	7/26/2021	7/26/2021	7/26/2021
Photoionization Detector Reading						
PID (ppm)	NA	137.2	46.6	57.6	330.8	114.7
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	8.47	<0.200	1.06	9.99	5.51
TPH-DRO* (mg/kg)	500	209	<25.0	90.4	436	85.5
TPH-RRO* (mg/kg)	500	<100	<100	<100	171	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.07	0.828	0.908	1.32	1.66
Sodium Adsorption Ratio (SAR)	6	3.52	3.05	3.92	3.60	3.85
pH, Lab (pH units)	6-8.3	7.54	7.55	7.71	7.48	7.29
Boron (mg/L)	2	0.302	0.321	0.381	0.297	0.383
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Toluene (mg/kg)	0.69	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene (mg/kg)	0.78	<0.00200	<0.00200	<0.00200	<0.00200	0.00398
Xylenes, Total (mg/kg)	9.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	0.148	<0.00200	<0.00200	0.00576	0.00264
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	<0.00200	<0.00200	0.0108
Acenaphthene (mg/Kg)	0.55	0.012	0.000447	<0.00335	0.00375	0.00213
Anthracene (mg/Kg)	5.8	<0.00335	<0.00067	<0.00335	<0.00335	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	0.0023	0.000648	0.00241	0.00254	0.00101
Benzo (b) fluoranthene (mg/Kg)	0.3	<0.00335	0.000634	<0.00335	<0.00335	0.000937
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00335	<0.00067	<0.00335	<0.00335	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	<0.00335	0.000336	0.00127	<0.00335	0.000622
Chrysene (mg/Kg)	9	0.00369	0.0012	0.00407	0.00265	0.00222
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00335	<0.00067	<0.00335	<0.00335	<0.00067
Fluoranthene (mg/Kg)	8.9	<0.00335	0.000568	<0.00335	<0.00335	0.000875
Fluorene (mg/Kg)	0.54	0.0214	0.00176	0.00297	0.0129	0.00476
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00335	<0.00067	<0.00335	<0.00335	0.000349
1-Methylnaphthalene (mg/Kg)	0.006	0.125	<0.00067	<0.00335	<0.00335	0.00686
2-Methylnaphthalene (mg/Kg)	0.019	0.279	<0.00067	<0.00335	<0.00335	0.0148
Naphthalene (mg/Kg)	0.0038	0.103	<0.00067	<0.00335	<0.00335	0.00303
Pyrene (mg/Kg)	1.3	0.00323	0.00107	0.00276	0.00224	0.00204
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	4.67	1.02	1.53	0.821	2.44
Barium (mg/Kg)	82	54	69.1	74.3	146	102
Cadmium (mg/Kg)	0.38	0.339	0.112	0.174	0.183	0.199
Chromium, Hexavalent (mg/Kg)	0.00067	<5.04	<2.59	<1	<5	<1
Copper (mg/Kg)	46	12.2	8.12	9.19	9.91	14.1
Lead (mg/Kg)	14	7.58	9.1	12	9.24	11.3
Nickel (mg/Kg)	26	9.35	5.59	5.74	9.28	9.42
Selenium (mg/Kg)	0.26	0.627	0.442	0.343	0.589	0.629
Silver (mg/Kg)	0.8	0.0401	0.0628	0.0926	0.0528	0.0646
Zinc (mg/Kg)	370	40.1	33.4	37.2	60.2	59.5

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B07@11'	B08@11'	B09@11'	B10@11'	B11@11'
		7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/30/2021
Photoionization Detector Reading						
PID (ppm)	NA	5.7	35.9	12.7	8.5	1.5
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.229	0.355	0.281	0.323	0.492
Sodium Adsorption Ratio (SAR)	6	1.76	1.91	2.04	1.85	2.09
pH, Lab (pH units)	6-8.3	7.97	8.00	8.10	7.94	7.89
Boron (mg/L)	2	NA	NA	NA	NA	<0.198
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	<0.00200	<0.00200	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	<0.00200	<0.00200	NA
Acenaphthene (mg/Kg)	0.55	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Anthracene (mg/Kg)	5.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Benzo (b) fluoranthene (mg/Kg)	0.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Chrysene (mg/Kg)	9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Fluoranthene (mg/Kg)	8.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Fluorene (mg/Kg)	0.54	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.304	0.446	0.273	<0.25	0.286
Barium (mg/Kg)	82	2.77	2.34	2.95	3.73	3.19
Cadmium (mg/Kg)	0.38	<0.25	<0.25	<0.25	<0.25	<0.25
Chromium, Hexavalent (mg/Kg)	0.00067	<0.515	<0.506	<0.502	<0.5	<0.52
Copper (mg/Kg)	46	0.919	0.739	0.662	0.627	0.712
Lead (mg/Kg)	14	1.1	0.862	1.01	1.07	0.983
Nickel (mg/Kg)	26	0.53	0.423	0.526	0.562	0.477
Selenium (mg/Kg)	0.26	<0.25	0.109	<0.25	0.138	0.112
Silver (mg/Kg)	0.8	0.0073	<0.25	<0.25	<0.25	<0.25
Zinc (mg/Kg)	370	8.96	4.06	4.39	4.07	3.47

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	S04@4'	W03@4'	W04@4'	W05@4'	E03@4'
		7/30/2021	7/30/2021	7/30/2021	7/30/2021	8/3/2021
Photoionization Detector Reading						
PID (ppm)	NA	3.1	7.1	108.5	375.2	1.6
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.724	0.883	1.05	1.24	NA
Sodium Adsorption Ratio (SAR)	6	2.91	3.93	6.24	5.21	5.74
pH, Lab (pH units)	6-8.3	7.81	7.68	7.29	6.97	NA
Boron (mg/L)	2	<0.199	0.382	0.697	0.542	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	<0.00200	<0.00200	<0.00200
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	<0.00200	<0.00200	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	<0.00335	<0.0134	NA
Anthracene (mg/Kg)	5.8	NA	NA	<0.00335	<0.0134	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	<0.00335	<0.0134	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	<0.00335	<0.0134	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	<0.00335	<0.0134	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	<0.00335	<0.0134	NA
Chrysene (mg/Kg)	9	NA	NA	<0.00335	0.0102	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	<0.00335	<0.00335	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	<0.00335	<0.0134	NA
Fluorene (mg/Kg)	0.54	NA	NA	0.0036	0.083	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	<0.00335	<0.0134	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	<0.00335	<0.0134	<0.00335
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	<0.00335	<0.0134	<0.00335
Naphthalene (mg/Kg)	0.0038	NA	NA	<0.00335	<0.0134	<0.00335
Pyrene (mg/Kg)	1.3	NA	NA	<0.00335	0.0116	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.542	0.891	2.97	8.75	NA
Barium (mg/Kg)	82	36.9	85.3	165	198	166
Cadmium (mg/Kg)	0.38	0.0274	0.156	0.183	0.179	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<1.01	<1	<5	<5	NA
Copper (mg/Kg)	46	2.66	10.4	22.5	17.4	NA
Lead (mg/Kg)	14	4.07	11.2	15.4	12.5	NA
Nickel (mg/Kg)	26	1.96	6.05	10	8.08	NA
Selenium (mg/Kg)	0.26	0.247	0.487	1.01	1.24	0.841
Silver (mg/Kg)	0.8	0.016	0.0794	0.131	0.0835	NA
Zinc (mg/Kg)	370	14.9	47.9	79.5	53.7	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	S05@4'	B12@11'	B13@11'	B14@11'	N04@4'
		8/3/2021	8/17/2021	8/17/2021	8/17/2021	8/17/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.2	1.0	1.4	49.3	0.4
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	1.17	<0.200
TPH-DRO* (mg/kg)	500	NA	NA	NA	<25.0	<25.0
TPH-RRO* (mg/kg)	500	NA	NA	NA	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	5.41	3.07	2.09	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	<0.00067	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	0.501	0.83	NA	NA
Barium (mg/Kg)	82	147	23.4	37.6	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	2.88	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	0.491	0.159	0.942	NA	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	N05@4'	S06@4'	W06@4'	W07@4'	B15@11'
		8/17/2021	8/17/2021	8/17/2021	8/17/2021	8/18/2021
Photoionization Detector Reading						
PID (ppm)	NA	2.7	0.0	0.6	0.1	50.1
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	1.29	NA	NA	NA	32.5
TPH-DRO* (mg/kg)	500	<25.0	NA	NA	NA	<25.0
TPH-RRO* (mg/kg)	500	<100	NA	NA	NA	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	6.66	NA	14.4	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	0.00604
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	0.507	0.413	0.824	NA
Barium (mg/Kg)	82	NA	62.9	8.5	113	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	8.53	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	0.385	0.155	0.473	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B16@11'	E04@6'	N06@6'	N07@6'	B17@11'
		8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/23/2021
Photoionization Detector Reading						
PID (ppm)	NA	45.6	209.0	800.6	1404	619.2
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	0.765	32.5	39.5	22.0	NA
TPH-DRO* (mg/kg)	500	261	49.4	<25.0	157	NA
TPH-RRO* (mg/kg)	500	<100	<100	<100	<100	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	0.696	0.782	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	2.48	3.16	NA
pH, Lab (pH units)	6-8.3	NA	NA	7.69	7.65	NA
Boron (mg/L)	2	NA	NA	3.80	5.80	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	0.00520	0.00626	<0.00200	0.00474
Toluene (mg/kg)	0.69	NA	NA	<0.00200	<0.00200	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	<0.00200	<0.00200	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	<0.00200	<0.00200	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	<0.00200	0.0157	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	<0.00200	<0.00200	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	0.0154	0.0447	NA
Anthracene (mg/Kg)	5.8	NA	NA	<0.00067	<0.0067	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	0.000904	<0.0067	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	0.000447	<0.0067	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	<0.00067	<0.0067	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	0.000438	<0.0067	NA
Chrysene (mg/Kg)	9	NA	NA	0.002	0.00564	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	<0.00067	<0.0067	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	<0.00067	<0.0067	NA
Fluorene (mg/Kg)	0.54	NA	NA	0.0242	0.0733	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	0.000403	<0.0067	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	0.102	0.301	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	0.26	0.729	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	0.00622	0.0567	NA
Pyrene (mg/Kg)	1.3	NA	NA	0.00188	0.00543	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	1.2	1.22	NA
Barium (mg/Kg)	82	NA	NA	130	106	NA
Cadmium (mg/Kg)	0.38	NA	NA	0.182	0.176	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	<5	<5.06	NA
Copper (mg/Kg)	46	NA	NA	13.3	12.1	NA
Lead (mg/Kg)	14	NA	NA	12.1	11.8	NA
Nickel (mg/Kg)	26	NA	NA	9.53	8.36	NA
Selenium (mg/Kg)	0.26	NA	NA	0.506	0.49	NA
Silver (mg/Kg)	0.8	NA	NA	0.0864	0.102	NA
Zinc (mg/Kg)	370	NA	NA	67.7	56.5	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B18@11'	N08@6'	W08@6'	B19@11'	N09@6'
		8/23/2021	8/23/2021	8/23/2021	8/25/2021	8/25/2021
Photoionization Detector Reading						
PID (ppm)	NA	118.9	1.2	2.6	143.6	1.3
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.943	0.774	0.904	0.719	0.338
Sodium Adsorption Ratio (SAR)	6	2.73	3.61	3.36	1.62	3.12
pH, Lab (pH units)	6-8.3	7.39	7.50	7.37	7.54	7.61
Boron (mg/L)	2	0.398	<0.198	0.658	<0.199	<0.198
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	0.00438	<0.00200	<0.00200	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	<0.00335	<0.00067	<0.00335	0.00376	<0.00067
Anthracene (mg/Kg)	5.8	<0.00335	<0.00067	<0.00335	<0.00067	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	<0.00335	<0.00067	<0.00335	<0.00067	<0.00067
Benzo (b) fluoranthene (mg/Kg)	0.3	<0.00335	<0.00067	<0.00335	0.000988	<0.00067
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00335	<0.00067	<0.00335	0.000791	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	<0.00335	<0.00067	<0.00335	0.000704	<0.00067
Chrysene (mg/Kg)	9	<0.00335	<0.00067	<0.00335	0.0013	<0.00067
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00335	<0.00067	<0.00335	0.00112	<0.00067
Fluoranthene (mg/Kg)	8.9	<0.00335	<0.00067	0.00287	<0.00067	<0.00067
Fluorene (mg/Kg)	0.54	<0.00335	<0.00067	<0.00335	0.00695	<0.00067
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00335	<0.00067	<0.00335	0.00137	<0.00067
1-Methylnaphthalene (mg/Kg)	0.006	0.0231	<0.00067	<0.00335	0.0193	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	0.042	<0.00067	<0.00335	0.047	<0.00067
Naphthalene (mg/Kg)	0.0038	0.0159	<0.00067	<0.00335	0.000956	<0.00067
Pyrene (mg/Kg)	1.3	<0.00335	<0.00067	<0.00335	0.000933	<0.00067
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	3.08	1.5	2.07	0.371	1.59
Barium (mg/Kg)	82	108	122	127	20.3	72.1
Cadmium (mg/Kg)	0.38	0.156	0.0934	0.0921	0.0263	0.101
Chromium, Hexavalent (mg/Kg)	0.00067	<5	<2.5	<5.02	<1.01	<1
Copper (mg/Kg)	46	16.1	8.99	21.5	2.62	5.37
Lead (mg/Kg)	14	12	9.93	14.1	2.52	4.99
Nickel (mg/Kg)	26	14.2	8.73	5.74	1.92	4.46
Selenium (mg/Kg)	0.26	1.38	0.523	1.57	0.132	0.223
Silver (mg/Kg)	0.8	0.1	0.0466	0.113	0.0173	0.0391
Zinc (mg/Kg)	370	70.1	63.2	54.3	12.5	32.1

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B20@11'	E05@6'	E06@6'	N10@6'	B21@11'
		8/31/2021	8/31/2021	8/31/2021	8/31/2021	9/1/2021
Photoionization Detector Reading						
PID (ppm)	NA	4.5	2.2	11.5	95.6	196.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	<0.201	NA	NA	0.376	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	<0.00200	NA	<0.00200
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	NA	NA	<0.00200	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	NA	NA	NA
Barium (mg/Kg)	82	NA	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	NA	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	S07@6'
		9/1/2021
Photoionization Detector Reading		
PID (ppm)	NA	2.7
Total Petroleum Hydrocarbons by USEPA Method 8015D		
TPH-GRO* (mg/kg)	500	NA
TPH-DRO* (mg/kg)	500	NA
TPH-RRO* (mg/kg)	500	NA
Soil Suitability for Reclamation		
EC (mmhos/cm)	4	NA
Sodium Adsorption Ratio (SAR)	6	NA
pH, Lab (pH units)	6-8.3	NA
Boron (mg/L)	2	NA
Soil Suitability for Reclamation (GPV for Soil)		
Benzene (mg/kg)	0.0026	<0.00200
Toluene (mg/kg)	0.69	NA
Ethylbenzene (mg/kg)	0.78	NA
Xylenes, Total (mg/kg)	9.9	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA
Acenaphthene (mg/Kg)	0.55	NA
Anthracene (mg/Kg)	5.8	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA
Chrysene (mg/Kg)	9	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA
Fluoranthene (mg/Kg)	8.9	NA
Fluorene (mg/Kg)	0.54	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA
Naphthalene (mg/Kg)	0.0038	NA
Pyrene (mg/Kg)	1.3	NA
Metals in Soils (GPV for Soil)		
Arsenic (mg/Kg)	0.29	NA
Barium (mg/Kg)	82	NA
Cadmium (mg/Kg)	0.38	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA
Copper (mg/Kg)	46	NA
Lead (mg/Kg)	14	NA
Nickel (mg/Kg)	26	NA
Selenium (mg/Kg)	0.26	NA
Silver (mg/Kg)	0.8	NA
Zinc (mg/Kg)	370	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Notes:

GPV - groundwater protection values
mg/kg - milligrams per kilogram
PID - Photoionization Detector
ppm - parts per million
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
RRO - residual range organics

EC - electrical conductivity
SAR - sodium adsorption ratio
mmhos/cm - millimhos per centimeter
<0.00200 - less than laboratory reporting limit
NA - Not Applicable / Not Analyzed
Bold indicates exceeds allowable level
*Allowable level for TPH is 500 mg/kg for combined GRO,
DRO, and RRO

TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
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- trimethylb enzene (µg/L)	1,3,5- trimethylb enzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1,400	140	67	67	1,287,500	250,000	388,750		
GW01	7/21/2021	188	<1.00	36.1	376	14.8	158	79.9	1,160,000	214,000	312,000	8	NA
GW-BG01	7/21/2021	NA	NA	NA	NA	NA	NA	NA	1,030,000	213,000	311,000	8	NA
MW01	8/5/2015	17.8	<4.0	<4.0	16.4	NA	NA	NA	NA	NA	NA	6.03	94.29
	11/10/2015	22.2	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.72	94.60
	2/11/2016	1.7	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.77	94.55
	5/16/2016	21.5	<1.0	<1.0	1.1	NA	NA	NA	NA	NA	NA	5.27	95.05
	8/3/2016	15.9	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.44	93.88
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.26	94.06
	2/7/2017	17.1	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.34	93.98
	5/3/2017	45.9	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.12	94.20
	8/23/2017	8.67	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.02	94.30
	11/9/2017	6.84	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.92	94.40
	2/23/2018	22.8	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.17	94.15
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	4.09	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.77	94.55
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.51	93.81
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.10	94.22
	2/5/2019	2.19	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.44	93.88
Well abandoned on 10/1/2019													
MW02	8/5/2015	<4.0	<4.0	<4.0	<4.0	NA	NA	NA	NA	NA	NA	5.49	94.45
	11/10/2015	1.5	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.20	94.74
	2/11/2016	1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.27	94.67
	5/16/2016	1,100	<1.0	29.4	279	NA	NA	NA	NA	NA	NA	4.76	95.18
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.91	94.03
	11/3/2016	1.69	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.73	94.21
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.82	94.12
	5/3/2017	1.14	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.58	94.36
	8/23/2017	410	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.55	94.39
	11/9/2017	23.7	<4.00	<4.00	<4.00	NA	NA	NA	NA	NA	NA	5.36	94.58
	2/23/2018	26.2	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.66	94.28
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.23	94.71
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.93	94.01

TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
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- trimethylb enzene (µg/L)	1,3,5- trimethylb enzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1,400	140	67	67	1,287,500	250,000	388,750		
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.51	94.43
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.94	94.00
Well abandoned on 10/1/2019													
MW03	8/5/2015	<4.0	<4.0	<4.0	<4.0	NA	NA	NA	NA	NA	NA	4.88	94.32
	11/10/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.57	94.63
	2/11/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.61	94.59
	5/16/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.11	95.09
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.28	93.92
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.09	94.11
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.18	94.02
	5/3/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.95	94.25
	8/23/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.90	93.30
	11/9/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.72	94.48
	2/23/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.01	94.19
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.62	94.57
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.30	93.89
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.88	94.31
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.29	93.90
Well abandoned on 10/1/2019													
MW04	8/5/2015	54.6	<4.0	6.3	<4.0	NA	NA	NA	NA	NA	NA	4.58	94.24
	11/10/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.29	94.53
	2/11/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.31	94.51
	5/16/2016	2.9	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	3.80	95.02
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.02	93.80
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.82	94.00
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.91	93.91
	5/3/2017	6.19	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.68	94.14
	8/23/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.62	94.20
	11/9/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.45	94.37
	2/23/2018	5.60	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.73	94.09
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	2.47	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.32	94.49
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.02	93.79

TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
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- trimethylb enzene (µg/L)	1,3,5- trimethylb enzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1,400	140	67	67	1,287,500	250,000	388,750		
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.60	94.21
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.98	93.83
Well abandoned on 10/1/2019													
MW05	8/5/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.14	93.22
	11/10/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.85	93.51
	2/11/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.86	93.50
	5/16/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.37	93.99
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.59	92.77
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.38	92.98
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.49	92.87
	5/3/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.25	93.11
	8/23/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.21	93.15
	11/9/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.03	93.33
	2/23/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.29	93.07
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	4.90	94.45
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.60	93.75
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.21	94.14
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.55	93.80
Well abandoned on 10/1/2019													
MW06	8/5/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.81	94.21
	11/10/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.53	94.49
	2/11/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.56	94.46
	5/16/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.06	94.96
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.26	93.76
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.06	93.96
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.17	93.85
	5/3/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.92	94.10
	8/23/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.89	94.13
	11/9/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.68	94.34
	2/23/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.97	94.05
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.54	94.50
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.27	93.77

TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
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- trimethylb enzene (µg/L)	1,3,5- trimethylb enzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1,400	140	67	67	1,287,500	250,000	388,750		
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.86	94.18
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.24	93.80
Well abandoned on 10/1/2019													
MW07	8/5/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.77	94.29
	11/10/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.45	94.61
	2/11/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.50	94.56
	5/16/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	5.01	95.05
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.18	93.88
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.99	94.07
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.09	93.97
	5/3/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.85	94.21
	8/23/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.79	93.27
	11/9/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.59	94.47
	2/23/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.91	94.15
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.47	94.58
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.18	93.87
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	5.79	94.26
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	6.18	93.87
Well abandoned on 10/1/2019													
MW08	8/17/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	3.42	NA
	11/10/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	2.90	NA
	2/11/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	4.87	NA
	5/16/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	2.42	NA
	8/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.65	NA
	11/3/2016	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.72	NA
	2/7/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.83	NA
	5/3/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.60	NA
	8/23/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.54	NA
	11/9/2017	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.37	NA
	2/23/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.66	NA
	4/11/2018	Surveyed - Not Sampled				NA	NA	NA	NA	NA	NA	NM	NA
	5/15/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.27	94.45
	8/22/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.98	93.74

TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CLACK 1-2A, OLSON 2-2
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- trimethylb enzene (µg/L)	1,3,5- trimethylb enzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1,400	140	67	67	1,287,500	250,000	388,750		
	11/6/2018	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.56	94.16
	2/5/2019	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	NA	NA	3.92	93.80
Well abandoned on 10/1/2019													

Notes: COGCC - Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter
ft bgs - feet below ground surface < - less than laboratory reporting limit
NA - not analyzed/not available Excavation groundwater depth is approximate
NM - not measured
Total Dissolved Solids and Sulfate Ion parameters based on background sample (GW-BG01) concentration x 1.25
BOLD = Analytical result is in exceedance of COGCC Table 915-1 groundwater standards.



July 29, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. July 21, 2021. This project is associated with Origins project number Y107424-01.

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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@4'	Y107424-01	Soil	July 21, 2021 15:42	07/21/2021 17:29
S01@4'	Y107424-02	Soil	July 21, 2021 15:21	07/21/2021 17:29
W01@4'	Y107424-03	Soil	July 21, 2021 15:38	07/21/2021 17:29
W02@4'	Y107424-04	Soil	July 21, 2021 15:33	07/21/2021 17:29
B01@8'	Y107424-05	Soil	July 21, 2021 15:47	07/21/2021 17:29
B02@8'	Y107424-06	Soil	July 21, 2021 15:28	07/21/2021 17:29
Native-BG01@4'	Y107424-07	Soil	July 21, 2021 15:10	07/21/2021 17:29
Native-BG01@8'	Y107424-08	Soil	July 21, 2021 15:11	07/21/2021 17:29
Native-BG02@4'	Y107424-09	Soil	July 21, 2021 15:15	07/21/2021 17:29
Native-BG02@8'	Y107424-10	Soil	July 21, 2021 15:16	07/21/2021 17:29
Native-BG03@4'	Y107424-11	Soil	July 21, 2021 15:19	07/21/2021 17:29
Native-BG03@8'	Y107424-12	Soil	July 21, 2021 15:20	07/21/2021 17:29
PH01@8'	Y107424-13	Soil	July 21, 2021 15:50	07/21/2021 17:29
GW01	Y107424-14	Water	July 21, 2021 15:05	07/21/2021 17:29

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-BG01	Y107424-15	Water	July 21, 2021 14:40	07/21/2021 17:29

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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1107424

ORIGINS
LABORATORY, INC

Client: WSP
Address: 4600 W 60th Ave
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Telephone Number: 303 889 7943
Email Address: KMG Group

Project Manager: Brian Sulzberger
Project Name: Olsen 2-2
Project Number: 31403177.101
Samples Collected By: Kyle Mathis

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
N01@4'	7-21-21	1542	2	X				X		915 Metrolis	Ground Water Protection 1
S01@4'		1521		X				X		915	2
W01@4'		1538		X				X		915	3
W02@4'		1533		X				X		915	4
B01@3'		1547		X				X		915	5
B02@3'		1528		X				X		915	6
Native-B60@4'		1510		X				X		915	7
Native-B60@8'		1511		X				X		915	8
Native-B60@4'		1515		X				X		915	9
Native-B60@8'		1516		X				X		915	10
Relinquished By: <u>Kyle Mathis</u>	Date: <u>7/21/21</u>	Time: <u>1729</u>	Time: <u>1729</u>	Received By: <u>[Signature]</u>	Date: <u>7/21/21</u>	Time: <u>1729</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard				

Date Results Needed

Temp Received: 161

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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.

Page 5 of 70

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107424

Client: WSP

Client Project ID: OLSEN 2-2

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 7/21/21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☒ Water

Other: _____

(Describe)

Cooler Number/Temperature: 1 / 16.1 °C

1 °C

1 °C

1 °C

Thermometer ID: T003

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 checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 7/21/21

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N01@4'

7/21/2021 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.362	0.201	mg/L	1	B1G2301	07/23/2021	07/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	U
Residual Range Organics (C28-C40)	121	100	"	"	"	"	"	

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

1,2,4-Trimethylbenzene	0.0128	0.00200	mg/kg	1	B1G2128	07/21/2021	07/21/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00230	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.278	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N01@4'

7/21/2021 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	103 %	70-130	B1G21 28	07/21/2021	07/21/2021
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Metals by Saturated Paste

Calcium	2.61	0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021
Magnesium	1.45	0.0823	"	"	"	"	"
Sodium	1.64	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000862	0.00048	0.00067	mg/Kg	1	L565397	07/23/2021	07/23/2021
2-Methylnaphthalene	0.00164	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N01@4'

7/21/2021 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L565397	07/23/2021	07/23/2021
Naphthalene	0.00363	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	58.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	58.5 %		29-110			"	"	"

pH in Soil by EPA 9045D

pH	7.30			pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	1.15			SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.474		0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.814	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	136	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

N01@4'

7/21/2021 3:42:00PM

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

Y107424-01 (Soil)

Total Metals by 6020B

Cadmium	0.141	0.0259	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	J
Copper	9.39	0.0806	0.25	"	"	"	"	"	
Lead	10	0.031	0.25	"	"	"	"	"	
Nickel	8.76	0.0633	0.25	"	"	"	"	"	
Selenium	0.529	0.103	0.25	"	"	"	"	"	
Silver	0.0639	0.0067	0.25	"	"	"	"	"	J
Zinc	64	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L565548	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S01@4'

7/21/2021 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.340	0.200	mg/L	1	B1G2201	07/22/2021	07/22/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.3 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2128	07/21/2021	07/21/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.0275	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.28	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S01@4'

7/21/2021 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-02 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	107 %	70-130	B1G21 28	07/21/2021	07/21/2021
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Metals by Saturated Paste

Calcium	3.73	0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021
Magnesium	3.61	0.0823	"	"	"	"	"
Sodium	14.4	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0333	0.0024	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021
2-Methylnaphthalene	0.0434	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	ND	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.0143	0.00251	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S01@4'

7/21/2021 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021
Naphthalene	0.0161	0.00234	0.00335	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.5 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.73	pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	7.52	SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.72	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.989	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	189	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S01@4'

7/21/2021 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-02 (Soil)

Total Metals by 6020B

Cadmium	0.361	0.0259	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Copper	13.5	0.0806	0.25	"	"	"	"	"	
Lead	13.8	0.031	0.25	"	"	"	"	"	
Nickel	13.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.861	0.103	0.25	"	"	"	"	"	
Silver	0.0786	0.0067	0.25	"	"	"	"	"	J
Zinc	86.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L565548	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W01@4'

7/21/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.299	0.199	mg/L	1	B1G2301	07/23/2021	07/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	204	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.2 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0605	0.00200	mg/kg	1	B1G2128	07/21/2021	07/21/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.352	0.00200	"	"	"	"	"	
Ethylbenzene	0.00660	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	19.7	5.00	"	25	"	"	"	
Xylenes, total	ND	0.00200	"	1	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W01@4'

7/21/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-03 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 202 % 70-130 B1G21 07/21/2021 07/21/2021 28 04

Metals by Saturated Paste

Calcium	5.03	0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021
Magnesium	2.75	0.0823	"	"	"	"	"
Sodium	33.2	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.592	0.0024	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021
2-Methylnaphthalene	1.53	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	0.00662	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.00262	0.00221	0.00335	"	"	"	"	" J
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	0.0101	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.114	0.00251	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"

Origins Laboratory, Inc.

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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W01@4'

7/21/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-03 (Soil)

PAH by 8270D SIM

Naphthalene	0.373	0.00234	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021	
Pyrene	0.00721	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.6 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.28			pH Units	1	B1G2203	07/22/2021	07/22/2021	
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SAR by 20B Saturated Paste

SAR	16.8			SAR	1	B1G2207	07/22/2021	07/22/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	3.61		0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021	
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Total Metals by 6020B

Arsenic	1.52	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Barium	191	0.042	0.25	"	"	"	"	"	
Cadmium	0.503	0.0259	0.25	"	"	"	"	"	

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.

Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W01@4'

7/21/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-03 (Soil)

Total Metals by 6020B

Copper	17.7	0.0806	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Lead	16.3	0.031	0.25	"	"	"	"	"	
Nickel	18.1	0.0633	0.25	"	"	"	"	"	
Selenium	1	0.103	0.25	"	"	"	"	"	
Silver	0.105	0.0067	0.25	"	"	"	"	"	J
Zinc	100	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.49	5.11	mg/Kg	10	L565548	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W02@4'

7/21/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.362	0.201	mg/L	1	B1G2301	07/23/2021	07/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	297	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.0 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0345	0.00200	mg/kg	1	B1G2128	07/21/2021	07/21/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.0110	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	18.3	5.00	"	25	"	"	"	
Xylenes, total	ND	0.00200	"	1	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W02@4'

7/21/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-04 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 201 % 70-130 B1G21 28 07/21/2021 07/21/2021 04

Metals by Saturated Paste

Calcium	2.68	0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021
Magnesium	1.40	0.0823	"	"	"	"	"
Sodium	21.0	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.109	0.0024	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021
2-Methylnaphthalene	0.259	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	ND	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.0199	0.00251	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W02@4'

7/21/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021
Naphthalene	0.0654	0.00234	0.00335	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	71.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	59.2 %		29-110			"	"	"

pH in Soil by EPA 9045D

pH	7.29			pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	14.7			SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.37		0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	1.16	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	174	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W02@4'

7/21/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-04 (Soil)

Total Metals by 6020B

Cadmium	0.215	0.0259	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	J
Copper	15.9	0.0806	0.25	"	"	"	"	"	
Lead	13.5	0.031	0.25	"	"	"	"	"	
Nickel	13.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.764	0.103	0.25	"	"	"	"	"	
Silver	0.0918	0.0067	0.25	"	"	"	"	"	J
Zinc	91.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L565548	07/21/2021	07/26/2021	
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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.

Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B01@8'

7/21/2021 3:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.202	mg/L	1	B1G2201	07/22/2021	07/22/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	68.9	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.6 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.164	0.00200	mg/kg	1	B1G2128	07/21/2021	07/21/2021	
1,3,5-Trimethylbenzene	0.0924	0.00200	"	"	"	"	"	
Benzene	0.0351	0.00200	"	"	"	"	"	
Ethylbenzene	0.0198	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	14.6	5.00	"	25	"	"	"	
Xylenes, total	0.209	0.00200	"	1	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	168 %	70-130			"	"	"	S-04

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B01@8'

7/21/2021 3:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-05 (Soil)

Metals by Saturated Paste

Calcium	1.88		0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021	
Magnesium	1.07		0.0823	"	"	"	"	"	
Sodium	6.20		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0107	0.00048	0.00067	mg/Kg	1	L565397	07/23/2021	07/23/2021	
2-Methylnaphthalene	0.023	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00135	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00546	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	0.00311	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000721	0.000387	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	59.3 %		33-115			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B01@8'

7/21/2021 3:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-05 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	73.3 %		33-122			L5653 97	07/23/2021	07/23/2021	
Surrogate: Nitrobenzene-d5	57.8 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.66			pH Units	1	B1G2203	07/22/2021	07/22/2021	
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SAR by 20B Saturated Paste

SAR	5.11			SAR	1	B1G2207	07/22/2021	07/22/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.834		0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021	
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Total Metals by 6020B

Arsenic	0.385	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Barium	9.46	0.042	0.25	"	"	"	"	"	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	1.27	0.0806	0.25	"	"	"	"	"	B
Lead	1.29	0.031	0.25	"	"	"	"	"	
Nickel	0.838	0.0633	0.25	"	"	"	"	"	
Selenium	0.134	0.103	0.25	"	"	"	"	"	J
Silver	0.0091	0.0067	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

B01@8'

7/21/2021 3:47:00PM

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

Y107424-05 (Soil)

Total Metals by 6020B

Zinc	9.08	0.534	2.5	mg/Kg	5	L565461	07/23/2021	07/26/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L565548	07/21/2021	07/26/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B02@8'

7/21/2021 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B1G2201	07/22/2021	07/22/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	150	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.536	0.0500	mg/kg	25	B1G2128	07/21/2021	07/21/2021	
1,3,5-Trimethylbenzene	0.224	0.00200	"	1	"	"	07/21/2021	
Benzene	0.166	0.00200	"	"	"	"	"	
Ethylbenzene	0.100	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	43.0	5.00	"	25	"	"	"	
Xylenes, total	0.589	0.00200	"	1	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	222 %	70-130			"	"	"	S-04

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B02@8'

7/21/2021 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-06 (Soil)

Metals by Saturated Paste

Calcium	1.60		0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021	
Magnesium	1.12		0.0823	"	"	"	"	"	
Sodium	10.1		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0964	0.0024	0.00335	mg/Kg	5	L565397	07/23/2021	07/23/2021	
2-Methylnaphthalene	0.226	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	ND	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	0.0026	0.00128	0.00335	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	
Fluorene	0.0269	0.00251	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"	
Naphthalene	0.0478	0.00234	0.00335	"	"	"	"	"	
Pyrene	ND	0.00194	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	68.2 %		33-115			"	"	"	

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.

Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B02@8'

7/21/2021 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-06 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	77 %		33-122			L5653 97	07/23/2021	07/23/2021	
Surrogate: Nitrobenzene-d5	60.9 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.81			pH Units	1	B1G2203	07/22/2021	07/22/2021	
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SAR by 20B Saturated Paste

SAR	8.68			SAR	1	B1G2207	07/22/2021	07/22/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.19		0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021	
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Total Metals by 6020B

Arsenic	0.295	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Barium	15.1	0.042	0.25	"	"	"	"	"	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	1.58	0.0806	0.25	"	"	"	"	"	B
Lead	1.75	0.031	0.25	"	"	"	"	"	
Nickel	1.1	0.0633	0.25	"	"	"	"	"	
Selenium	0.189	0.103	0.25	"	"	"	"	"	J
Silver	0.0123	0.0067	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

B02@8'

7/21/2021 3:28:00PM

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

Y107424-06 (Soil)

Total Metals by 6020B

Zinc	8.55	0.534	2.5	mg/Kg	5	L565461	07/23/2021	07/26/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.519	mg/Kg	1	L565548	07/21/2021	07/26/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG01@4'
7/21/2021 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B1G2201	07/22/2021	07/22/2021
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Metals by Saturated Paste

Calcium	1.07	0.0499	meq/L	"	[CALC]	07/22/2021	07/22/2021
Magnesium	0.411	0.0823	"	"	"	"	"
Sodium	0.993	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.12		pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	1.15		SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.238	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.461	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Barium	19.8	0.042	0.25	"	"	"	"	"	
Cadmium	0.0628	0.0259	0.25	"	"	"	"	"	J
Copper	1.43	0.0806	0.25	"	"	"	"	"	B

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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG01@4'**7/21/2021 3:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-07 (Soil)**Total Metals by 6020B**

Lead	1.82	0.031	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Nickel	2.14	0.0633	0.25	"	"	"	"	"	
Selenium	0.208	0.103	0.25	"	"	"	"	"	J
Silver	0.0106	0.0067	0.25	"	"	"	"	"	J
Zinc	9.52	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L565548	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG01@8'
7/21/2021 3:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1G2201	07/22/2021	07/22/2021
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Metals by Saturated Paste

Calcium	0.980	0.0499	meq/L	"	[CALC]	07/22/2021	07/22/2021
Magnesium	0.483	0.0823	"	"	"	"	"
Sodium	2.34	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.71		pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	2.74		SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.397	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.296	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	16	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.967	0.0806	0.25	"	"	"	"	"

B

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG01@8'

7/21/2021 3:11:00PM

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

Y107424-08 (Soil)

Total Metals by 6020B

Lead	2.13	0.031	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Nickel	1.02	0.0633	0.25	"	"	"	"	"	
Selenium	0.197	0.103	0.25	"	"	"	"	"	J
Silver	0.0135	0.0067	0.25	"	"	"	"	"	J
Zinc	6.91	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L565548	07/21/2021	07/26/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG02@4'
7/21/2021 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.297	0.198	mg/L	1	B1G2301	07/23/2021	07/23/2021
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Metals by Saturated Paste

Calcium	2.89	0.0499	meq/L	"	[CALC]	07/22/2021	07/22/2021
Magnesium	1.51	0.0823	"	"	"	"	"
Sodium	7.04	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.02		pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	4.75		SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.07	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	2.31	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	163	0.042	0.25	"	"	"	"	"
Cadmium	0.194	0.0259	0.25	"	"	"	"	"
Copper	13.8	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG02@4'**7/21/2021 3:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-09 (Soil)**Total Metals by 6020B**

Lead	13.9	0.031	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Nickel	10.1	0.0633	0.25	"	"	"	"	"	
Selenium	0.847	0.103	0.25	"	"	"	"	"	
Silver	0.0742	0.0067	0.25	"	"	"	"	"	J
Zinc	80.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.47	5.07	mg/Kg	10	L565548	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG02@8'
7/21/2021 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1G2201	07/22/2021	07/22/2021
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Metals by Saturated Paste

Calcium	4.92	0.0499	meq/L	"	[CALC]	07/22/2021	07/22/2021
Magnesium	2.63	0.0823	"	"	"	"	"
Sodium	11.3	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.62		pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	5.80		SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.67	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.617	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	34.7	0.042	0.25	"	"	"	"	"
Cadmium	0.0452	0.0259	0.25	"	"	"	"	"
Copper	3.04	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG02@8'

7/21/2021 3:16:00PM

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

Y107424-10 (Soil)

Total Metals by 6020B

Lead	3.61	0.031	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Nickel	2.05	0.0633	0.25	"	"	"	"	"	
Selenium	0.343	0.103	0.25	"	"	"	"	"	
Silver	0.0288	0.0067	0.25	"	"	"	"	"	J
Zinc	14.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L565548	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG03@4'
7/21/2021 3:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1G2201	07/22/2021	07/22/2021
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Metals by Saturated Paste

Calcium	0.971	0.0499	meq/L	"	[CALC]	07/22/2021	07/22/2021
Magnesium	0.460	0.0823	"	"	"	"	"
Sodium	3.71	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.62		pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	4.40		SAR	1	B1G2207	07/22/2021	07/22/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.528	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.301	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	6.13	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.68	0.0806	0.25	"	"	"	"	"

B

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG03@4'**7/21/2021 3:19:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.**Y107424-11 (Soil)****Total Metals by 6020B**

Lead	0.982	0.031	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Nickel	0.594	0.0633	0.25	"	"	"	"	"	
Selenium	0.202	0.103	0.25	"	"	"	"	"	J
Silver	0.0093	0.0067	0.25	"	"	"	"	"	J
Zinc	4.64	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L565549	07/21/2021	07/26/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG03@8'
7/21/2021 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1G2201	07/22/2021	07/22/2021
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Metals by Saturated Paste

Calcium	0.604	0.0499	meq/L	"	[CALC]	07/23/2021	07/23/2021
Magnesium	0.281	0.0823	"	"	"	"	"
Sodium	2.88	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.20		pH Units	1	B1G2203	07/22/2021	07/22/2021
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SAR by 20B Saturated Paste

SAR	4.32		SAR	1	B1G2315	07/23/2021	07/23/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.475	0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021
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Total Metals by 6020B

Arsenic	0.529	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021
Barium	5.63	0.042	0.25	"	"	"	"	"
Cadmium	0.0637	0.0259	0.25	"	"	"	"	J
Copper	1.19	0.0806	0.25	"	"	"	"	B

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Native-BG03@8'**7/21/2021 3:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-12 (Soil)**Total Metals by 6020B**

Lead	1.47	0.031	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Nickel	0.683	0.0633	0.25	"	"	"	"	"	
Selenium	0.217	0.103	0.25	"	"	"	"	"	J
Silver	0.0098	0.0067	0.25	"	"	"	"	"	J
Zinc	8.18	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L565549	07/21/2021	07/26/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

PH01@8'

7/21/2021 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1G2201	07/22/2021	07/22/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	209	25.0	mg/kg	1	B1G2129	07/21/2021	07/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.1 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2128	07/21/2021	07/21/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	76.0	5.00	"	25	"	"	"	
Xylenes, total	0.00274	0.00200	"	1	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

PH01@8'

7/21/2021 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107424-13 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 285 % 70-130 B1G21 07/21/2021 07/21/2021 28

Metals by Saturated Paste

Calcium	1.64	0.0499	meq/L	1	[CALC]	07/22/2021	07/22/2021
Magnesium	0.866	0.0823	"	"	"	"	"
Sodium	3.16	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.005	0.0048	0.0067	mg/Kg	10	L565397	07/23/2021	07/23/2021	J
2-Methylnaphthalene	ND	0.00542	0.0067	"	"	"	"	"	
Acenaphthene	ND	0.00431	0.0067	"	"	"	"	"	
Anthracene	ND	0.00426	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00441	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00133	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00138	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00486	0.0067	"	"	"	"	"	
Chrysene	0.0177	0.00256	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00279	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00529	0.0067	"	"	"	"	"	
Fluorene	0.0383	0.00501	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

PH01@8'

7/21/2021 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-13 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00344	0.0067	mg/Kg	10	L565397	07/23/2021	07/23/2021	
Naphthalene	0.00766	0.00467	0.0067	"	"	"	"	"	
Pyrene	0.00607	0.00387	0.0067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	72.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	87.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.4 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.72			pH Units	1	B1G2203	07/22/2021	07/22/2021	
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SAR by 20B Saturated Paste

SAR	2.83			SAR	1	B1G2207	07/22/2021	07/22/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.542		0.00500	mmhos/cm	1	B1G2204	07/22/2021	07/22/2021	
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Total Metals by 6020B

Arsenic	0.5	0.0855	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	
Barium	17.3	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

PH01@8'

7/21/2021 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107424-13 (Soil)

Total Metals by 6020B

Cadmium	0.0348	0.0259	0.25	mg/Kg	5	L565461	07/23/2021	07/26/2021	J
Copper	1.81	0.0806	0.25	"	"	"	"	"	B
Lead	2.89	0.031	0.25	"	"	"	"	"	
Nickel	1.21	0.0633	0.25	"	"	"	"	"	
Selenium	0.309	0.103	0.25	"	"	"	"	"	
Silver	0.011	0.0067	0.25	"	"	"	"	"	J
Zinc	11.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L565549	07/21/2021	07/26/2021	
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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

GW01

7/21/2021 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y107424-14 (Water)

Anions by IC 300.0

Chloride	214	31.2	mg/L	125	B1G2130	07/21/2021	07/21/2021
Sulfate	312	31.2	"	"	"	"	"

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	158	1.00	ug/L	1	B1G2110	07/21/2021	07/21/2021
1,3,5-Trimethylbenzene	79.9	1.00	"	"	"	"	"
Benzene	188	1.00	"	"	"	"	"
Ethylbenzene	36.1	1.00	"	"	"	"	"
Naphthalene	14.8	4.00	"	"	"	"	"
Toluene	ND	1.00	"	"	"	"	" U
Xylenes, total	376	20.0	"	20	"	"	07/21/2021

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	07/21/2021
Surrogate: Toluene-d8	98.7 %	70-130	"	"	07/21/2021
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	07/21/2021

Total Dissolved Solids by 2540C

Total Dissolved Solids	1160	5.00	mg/L	1	B1G2120	07/21/2021	07/22/2021
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

GW-BG01

7/21/2021 2:40:00PM

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

Y107424-15 (Water)

Anions by IC 300.0

Chloride	213	31.2	mg/L	125	B1G2130	07/21/2021	07/21/2021
Sulfate	311	31.2	"	"	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1030	5.00	"	1	B1G2120	07/21/2021	07/22/2021
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2110 - EPA 5030B (Water)										
Blank (B1G2110-BLK1)					Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		111	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2110 - EPA 5030B (Water)

LCS (B1G2110-BS1)

Prepared: 07/21/2021 Analyzed: 07/21/2021

1,2,4-Trimethylbenzene	42.4	1.00	ug/L	50.0		84.9	70-130			
1,3,5-Trimethylbenzene	41.4	1.00	"	50.0		82.9	70-130			
Benzene	41.8	1.00	"	50.0		83.6	70-130			
Ethylbenzene	42.1	1.00	"	50.0		84.3	70-130			
m,p-Xylene	83.4	2.00	"	100		83.4	70-130			
Naphthalene	55.6	4.00	"	50.0		111	70-130			
o-Xylene	44.4	1.00	"	50.0		88.7	70-130			
Toluene	41.7	1.00	"	50.0		83.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	62		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2110 - EPA 5030B (Water)

Matrix Spike (B1G2110-MS1)		Source: Y107376-07			Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	26.4	1.00	ug/L	25.0	ND	105	70-130			
1,3,5-Trimethylbenzene	27.0	1.00	"	25.0	ND	108	70-130			
Benzene	25.0	1.00	"	25.0	ND	99.8	70-130			
Ethylbenzene	27.1	1.00	"	25.0	ND	108	70-130			
m,p-Xylene	53.2	2.00	"	50.0	ND	106	70-130			
Naphthalene	24.5	4.00	"	25.0	0.630	95.5	70-130			
o-Xylene	25.9	1.00	"	25.0	ND	104	70-130			
Toluene	25.2	1.00	"	25.0	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Project: KMG - Olsen 2-2

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 B1G2110 - EPA 5030B (Water)										
Matrix Spike Dup (B1G2110-MSD1)		Source: Y107376-07			Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	24.5	1.00	ug/L	25.0	ND	98.0	70-130	7.35	20	
1,3,5-Trimethylbenzene	25.3	1.00	"	25.0	ND	101	70-130	6.55	20	
Benzene	22.6	1.00	"	25.0	ND	90.4	70-130	9.84	20	
Ethylbenzene	24.8	1.00	"	25.0	ND	99.1	70-130	8.83	20	
m,p-Xylene	49.4	2.00	"	50.0	ND	98.9	70-130	7.38	20	
Naphthalene	23.8	4.00	"	25.0	0.630	92.8	70-130	2.77	20	
o-Xylene	24.0	1.00	"	25.0	ND	96.1	70-130	7.45	20	
Toluene	23.4	1.00	"	25.0	ND	93.6	70-130	7.45	20	
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2128 - EPA 5030 (soil)										
Blank (B1G2128-BLK1)					Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2128 - EPA 5030 (soil)										
LCS (B1G2128-BS1)					Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	0.0487	0.00200	mg/kg	0.0500		97.3	70-130			
Naphthalene	0.0575	0.0100	"	0.0500		115	70-130			
1,3,5-Trimethylbenzene	0.0471	0.00200	"	0.0500		94.3	70-130			
Benzene	0.0419	0.00200	"	0.0500		83.9	70-130			
Ethylbenzene	0.0462	0.00200	"	0.0500		92.3	70-130			
m,p-Xylene	0.0978	0.00400	"	0.100		97.8	70-130			
o-Xylene	0.0504	0.00200	"	0.0500		101	70-130			
Toluene	0.0439	0.00200	"	0.0500		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2128 - EPA 5030 (soil)

Matrix Spike (B1G2128-MS1)		Source: Y107424-01			Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	0.0607	0.00200	mg/kg	0.0500	0.0128	95.8	70-130			
Naphthalene	0.0513	0.0100	"	0.0500	0.00178	99.0	70-130			
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.8	70-130			
Benzene	0.0408	0.00200	"	0.0500	0.00230	77.0	70-130			
Ethylbenzene	0.0454	0.00200	"	0.0500	ND	90.7	70-130			
m,p-Xylene	0.0962	0.00400	"	0.100	ND	96.2	70-130			
o-Xylene	0.0502	0.00200	"	0.0500	ND	100	70-130			
Toluene	0.0419	0.00200	"	0.0500	ND	83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2128 - EPA 5030 (soil)										
Matrix Spike Dup (B1G2128-MSD1)		Source: Y107424-01			Prepared: 07/21/2021 Analyzed: 07/21/2021					
1,2,4-Trimethylbenzene	0.0582	0.00200	mg/kg	0.0500	0.0128	90.7	70-130	4.24	20	
Naphthalene	0.0523	0.0100	"	0.0500	0.00178	101	70-130	2.05	20	
1,3,5-Trimethylbenzene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	1.29	20	
Benzene	0.0428	0.00200	"	0.0500	0.00230	81.0	70-130	4.69	20	
Ethylbenzene	0.0458	0.00200	"	0.0500	ND	91.5	70-130	0.878	20	
m,p-Xylene	0.0979	0.00400	"	0.100	ND	97.9	70-130	1.77	20	
o-Xylene	0.0508	0.00200	"	0.0500	ND	102	70-130	1.07	20	
Toluene	0.0434	0.00200	"	0.0500	ND	86.9	70-130	3.61	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2129 - EPA 3550B

Blank (B1G2129-BLK1)

Prepared: 07/21/2021 Analyzed: 07/21/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		84.7	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2129 - EPA 3550B

LCS (B1G2129-BS1)

Prepared: 07/21/2021 Analyzed: 07/21/2021

Diesel (C10-C28)	882	50.0	mg/kg	1000		88.2	70-130			
Residual Range Organics (C28-C40)	942	200	"	1000		94.2	70-130			
Surrogate: o-Terphenyl	45		"	50.0		90.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2129 - EPA 3550B

Matrix Spike (B1G2129-MS1)		Source: Y107424-01			Prepared: 07/21/2021 Analyzed: 07/21/2021					
Diesel (C10-C28)	774	50.0	mg/kg	1000	ND	77.4	70-130			
Residual Range Organics (C28-C40)	836	200	"	1000	121	71.5	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.7	50-150			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2129 - EPA 3550B

Matrix Spike Dup (B1G2129-MSD1)		Source: Y107424-01			Prepared: 07/21/2021 Analyzed: 07/21/2021					
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130	14.9	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	121	90.2	70-130	20.1	35	
Surrogate: o-Terphenyl	48		"	50.0		95.3	50-150			

Origins Laboratory, Inc.



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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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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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 B1G2120 - NO PREP

Blank (B1G2120-BLK1)

Prepared: 07/21/2021 Analyzed: 07/22/2021

Total Dissolved Solids ND 5.00 mg/L

LCS (B1G2120-BS1)

Prepared: 07/21/2021 Analyzed: 07/22/2021

Total Dissolved Solids 987 5.00 mg/L 1000

98.7 85-115

Duplicate (B1G2120-DUP1)

Source: Y107349-20

Prepared: 07/21/2021 Analyzed: 07/22/2021

Total Dissolved Solids 5490 5.00 mg/L

5480

0.109

20

Batch B1G2130 - Filter .45um non acidified

Blank (B1G2130-BLK1)

Prepared: 07/21/2021 Analyzed: 07/21/2021

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B1G2130-BS1)

Prepared: 07/21/2021 Analyzed: 07/21/2021

Chloride 4.10 0.250 mg/L 4.00

102 90-110

Sulfate 4.28 0.250 "

107 90-110

Matrix Spike (B1G2130-MS1)

Source: Y107424-14

Prepared: 07/21/2021 Analyzed: 07/21/2021

Chloride 717 mg/L 500

214

101 80-120

Sulfate 841 "

500

312 106 80-120

Matrix Spike Dup (B1G2130-MSD1)

Source: Y107424-14

Prepared: 07/21/2021 Analyzed: 07/21/2021

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2130 - Filter .45um non acidified										
Matrix Spike Dup (B1G2130-MSD1)			Source: Y107424-14		Prepared: 07/21/2021 Analyzed: 07/21/2021					
Chloride	726		mg/L	500	214	102	80-120	1.21	20	
Sulfate	854		"	500	312	108	80-120	1.49	20	
Batch B1G2201 - Default Prep Metals										
Blank (B1G2201-BLK1)			Prepared: 07/22/2021 Analyzed: 07/22/2021							
Boron	ND	0.200	mg/L							
Batch B1G2301 - Default Prep Metals										
Blank (B1G2301-BLK1)			Prepared: 07/23/2021 Analyzed: 07/23/2021							
Boron	ND	0.200	mg/L							
Blank (B1G2301-BLK2)			Prepared: 07/23/2021 Analyzed: 07/23/2021							
Boron	ND	0.200	mg/L							
Blank (B1G2301-BLK3)			Prepared: 07/23/2021 Analyzed: 07/23/2021							
Boron	ND	0.200	mg/L							
Batch B1G2315 - Default Prep Metals										
Blank (B1G2315-BLK1)			Prepared: 07/23/2021 Analyzed: 07/23/2021							
SAR	0.00		SAR							
Calcium PPM	ND	1.00	mg/L							
Magnesium PPM	ND	1.00	"							
Sodium PPM	ND	1.00	"							

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1G2203 - NO PREP										
Duplicate (B1G2203-DUP1)		Source: Y107424-01			Prepared: 07/22/2021 Analyzed: 07/22/2021					
pH	7.27		pH Units		7.30			0.412	25	
Batch B1G2204 - NO PREP										
Blank (B1G2204-BLK1)		Prepared: 07/22/2021 Analyzed: 07/22/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B1G2204-DUP1)		Source: Y107424-01			Prepared: 07/22/2021 Analyzed: 07/22/2021					
Specific Conductance (EC)	0.604	0.00500	mmhos/cm		0.474			24.3	25	

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L565397 - 3550B

MSD (L 89799-MSD-L565397)		Source: 89799			Prepared: 07/23/2021 Analyzed: 07/23/2021					
Anthracene	0.0969	0.000426	mg/Kg	0.164	<0.000426	59	30-130	10.8	30	
Fluoranthene	0.0991	0.000529	"	0.164	<0.000529	60.4	30-130	5.7	30	
1-Methylnaphthalene	0.0906	0.00048	"	0.164	<0.000480	55.2	30-130	7.4	30	
Pyrene	0.0983	0.000387	"	0.164	<0.000387	59.9	30-130	2.7	30	
Naphthalene	0.0876	0.000467	"	0.164	<0.000467	53.4	30-130	9.3	30	
Fluorene	0.0969	0.000501	"	0.164	<0.000501	59	30-130	7	30	
Dibenz(a,h)anthracene	0.0965	0.000279	"	0.164	<0.000279	58.8	30-130	7.4	30	
Chrysene	0.101	0.000256	"	0.164	0.0005	61.5	30-130	10.3	30	
Acenaphthene	0.0919	0.000431	"	0.164	<0.000431	56	30-130	8.4	30	
Indeno(1,2,3-cd)pyrene	0.0914	0.000344	"	0.164	<0.000344	55.7	30-130	9.9	30	
2-Methylnaphthalene	0.0908	0.000542	"	0.164	<0.000542	55.3	30-130	7.9	30	
Benzo(k)fluoranthene	0.0727	0.000486	"	0.164	<0.000486	44.3	30-130	2.7	30	
Benzo(a)anthracene	0.0968	0.000441	"	0.164	<0.000441	59	30-130	6.2	30	
Benzo(a)pyrene	0.104	0.000133	"	0.164	0.0002	63.4	30-130	9.1	30	
Benzo(b)fluoranthene	0.0776	0.000138	"	0.164	<0.000138	47.3	30-130	14.5	30	
Surrogate: Nitrobenzene-d5	52.2		"	0.329	204	52.2	29-110			
Surrogate: 2-Fluorobiphenyl	61.3		"	0.329	226	61.3	33-115			
Surrogate: 4-Terphenyl-d14	59.5		"	0.329	215	59.5	33-122			

MS (L 89799-MS-L565397)		Source: 89799			Prepared: 07/23/2021 Analyzed: 07/23/2021					
Chrysene	0.112	0.000256	mg/Kg	0.164	0.0005	68.2	30-130			
Benzo(k)fluoranthene	0.0747	0.000486	"	0.164	<0.000486	45.5	30-130			
Naphthalene	0.0962	0.000467	"	0.164	<0.000467	58.6	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.000344	"	0.164	<0.000344	61.5	30-130			
Fluorene	0.104	0.000501	"	0.164	<0.000501	63.4	30-130			
Fluoranthene	0.105	0.000529	"	0.164	<0.000529	64	30-130			
Pyrene	0.101	0.000387	"	0.164	<0.000387	61.5	30-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L565397 - 3550B

MS (L 89799-MS-L565397)		Source: 89799			Prepared: 07/23/2021 Analyzed: 07/23/2021					
Dibenz(a,h)anthracene	0.104	0.000279	mg/Kg	0.164	<0.000279	63.4	30-130			
Benzo(b)fluoranthene	0.0898	0.000138	"	0.164	<0.000138	54.7	30-130			
1-Methylnaphthalene	0.0976	0.00048	"	0.164	<0.000480	59.5	30-130			
2-Methylnaphthalene	0.0983	0.000542	"	0.164	<0.000542	59.9	30-130			
Acenaphthene	0.1	0.000431	"	0.164	<0.000431	60.9	30-130			
Anthracene	0.108	0.000426	"	0.164	<0.000426	65.8	30-130			
Benzo(a)anthracene	0.103	0.000441	"	0.164	<0.000441	62.8	30-130			
Benzo(a)pyrene	0.114	0.000133	"	0.164	0.0002	69.5	30-130			
Surrogate: Nitrobenzene-d5	57.9		"	0.328	204	57.9	29-110			
Surrogate: 2-Fluorobiphenyl	65.8		"	0.328	226	65.8	33-115			
Surrogate: 4-Terphenyl-d14	62.1		"	0.328	215	62.1	33-122			

LCS (LCS-L565397)

Prepared: 07/23/2021 Analyzed: 07/23/2021

Benzo(b)fluoranthene	0.0937	0.000138	mg/Kg	0.167		56.1	30-130
2-Methylnaphthalene	0.0993	0.000542	"	0.167		59.4	30-130
Indeno(1,2,3-cd)pyrene	0.1	0.000344	"	0.167		59.8	30-130
Fluoranthene	0.111	0.000529	"	0.167		66.4	30-130
Naphthalene	0.0981	0.000467	"	0.167		58.7	30-130
1-Methylnaphthalene	0.0996	0.00048	"	0.167		59.6	30-130
Pyrene	0.11	0.000387	"	0.167		65.8	30-130
Acenaphthene	0.1	0.000431	"	0.167		59.8	30-130
Anthracene	0.108	0.000426	"	0.167		64.6	30-130
Benzo(a)pyrene	0.111	0.000133	"	0.167		66.4	30-130
Benzo(k)fluoranthene	0.0909	0.000486	"	0.167		54.4	30-130
Fluorene	0.105	0.000501	"	0.167		62.8	30-130
Chrysene	0.108	0.000256	"	0.167		64.6	30-130
Dibenz(a,h)anthracene	0.105	0.000279	"	0.167		62.8	30-130

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L565397 - 3550B

LCS (LCS-L565397)

Prepared: 07/23/2021 Analyzed: 07/23/2021

Benzo(a)anthracene	0.105	0.000441	mg/Kg	0.167		62.8	30-130			
Surrogate: Nitrobenzene-d5	60		"	0.333		60	29-110			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333		69.3	33-115			
Surrogate: 4-Terphenyl-d14	68.4		"	0.333		68.4	33-122			

LRB (LRB-L565397)

Prepared: 07/23/2021 Analyzed: 07/23/2021

Anthracene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.4		"	0.333		59.4	29-110			
Surrogate: 2-Fluorobiphenyl	66.6		"	0.333		66.6	33-115			
Surrogate: 4-Terphenyl-d14	63.6		"	0.333		63.6	33-122			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L565461 - 3050B

MSD (L 98416-MSD-L565461)			Source: 98416			Prepared: 07/23/2021 Analyzed: 07/26/2021				
Arsenic	5.74	0.0855	mg/Kg	2.39	3.74	84	75-125	0.6	80	
Zinc	100	0.534	"	23.9	88	50	75-125	4.8	80	*
Silver	0.485	0.0067	"	0.478	0.0537	101	75-125	11.2	80	
Selenium	3.59	0.103	"	4.78	0.429	66	75-125	13	80	*
Nickel	14.5	0.0633	"	2.39	18.6	NR	75-125	23.1	80	*
Lead	14.7	0.031	"	2.39	17	NR	75-125	17.9	80	*
Copper	16	0.0806	"	2.39	15.2	33	75-125	6.6	80	*
Barium	75.8	0.042	"	4.78	34.8	857	75-125	30.4	80	*
Cadmium	1.06	0.0259	"	0.478	1.22	NR	75-125	42.3	80	*

MS (L 98416-MS-L565461)			Source: 98416			Prepared: 07/23/2021 Analyzed: 07/26/2021				
Silver	0.543	0.0067	mg/Kg	0.499	0.0537	109	75-125			
Cadmium	1.63	0.0259	"	0.499	1.22	82	75-125			
Barium	103	0.042	"	4.99	34.8	NR	75-125			*
Copper	17.1	0.0806	"	2.5	15.2	76	75-125			
Lead	17.6	0.031	"	2.5	17	24	75-125			*
Nickel	18.3	0.0633	"	2.5	18.6	NR	75-125			*
Selenium	4.09	0.103	"	4.99	0.429	73	75-125			*
Zinc	105	0.534	"	25	88	68	75-125			*
Arsenic	5.78	0.0855	"	2.5	3.74	82	75-125			

LCS (LCS-L565461)			Prepared: 07/23/2021 Analyzed: 07/26/2021							
Cadmium	0.461	0.0259	mg/Kg	0.5		92	80-120			
Barium	4.87	0.042	"	5		97	80-120			
Arsenic	2.27	0.0855	"	2.5		91	80-120			
Copper	2.41	0.0806	"	2.5		96	80-120			
Lead	2.43	0.031	"	2.5		97	80-120			

Origins Laboratory, Inc.



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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L565461 - 3050B

LCS (LCS-L565461)

Prepared: 07/23/2021 Analyzed: 07/26/2021

Zinc	23.2	0.534	mg/Kg	25		93	80-120			
Silver	0.477	0.0067	"	0.5		95	80-120			
Nickel	2.28	0.0633	"	2.5		91	80-120			
Selenium	4.87	0.103	"	5		97	80-120			

LRB (LRB-L565461)

Prepared: 07/23/2021 Analyzed: 07/26/2021

Lead	ND	0.25	mg/Kg				-			
Copper	0.208	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L565548 -

DUP (L 98318-DUP)		Source: Y107424-01			Prepared: Analyzed: 07/26/2021					
Chromium, Hexavalent	ND	1.27	mg/Kg		<2.60	-		0	20	
MS (L 98318-MS)		Source: Y107424-01			Prepared: Analyzed: 07/26/2021					
Chromium, Hexavalent	ND	1.22	mg/Kg	7.87	<1.22	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 07/26/2021					
Chromium, Hexavalent	9.22	0.244	mg/Kg	8		115	75-125			

Batch L565549 -

DUP (L 98328-DUP)		Source: Y107424-11			Prepared: Analyzed: 07/26/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 98328-MS)		Source: Y107424-11			Prepared: Analyzed: 07/26/2021					
Chromium, Hexavalent	6.48	0.244	mg/Kg	7.86	<0.244	82	75-125			
LRB (LRB)					Prepared: Analyzed: 07/26/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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August 02, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. July 23, 2021. This project is associated with Origins project number Y107492-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@4	Y107492-01	Soil	July 23, 2021 14:10	07/23/2021 16:14
S02@4	Y107492-02	Soil	July 23, 2021 14:05	07/23/2021 16:14
B03@8'	Y107492-03	Soil	July 23, 2021 14:14	07/23/2021 16:14
B04@8'	Y107492-04	Soil	July 23, 2021 14:21	07/23/2021 16:14

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

www.originslaboratory.com

4107492

ORIGINS
LABORATORY, INC

page 1 of 1

Client: WSP USA
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: 303 880 9943
Email Address: Kier Miller Group

Project Manager: Brian Sulzberger
Project Name: Olsen 2-2
Project Number: 31403177.101
Samples Collected By: Kyle Mathis

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summa Canister #		
N0204	7/23/21	1410	2									Ground Water Protection 1
S0204		1405	1									2
B0304 81		1414	1									3
B0404 81		1421	1									4
												5
												6
												7
												8
												9
												10

revised per the email from David on 7/20/21

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Kyle Mathis	7/23/21	1614	JP	7/23/21	1614	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

Temp Received: 6.8

Origins Laboratory, Inc.

Jordan A. Merrill

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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4107492

Client: WSP

Client Project ID: Olsen 2-2

Checklist Completed by: JP

Shipped Via: 440

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

Date/time completed: 7/23/21

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 16.8 °C / °C / °C / °C

Thermometer ID: TCCB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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)

Date/Time Reviewed

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N02@4
7/23/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.300	0.200	mg/L	1	B1G2602	07/26/2021	07/26/2021
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1190	25.0	mg/kg	1	B1G2317	07/23/2021	07/24/2021
Residual Range Organics (C28-C40)	384	100	"	"	"	"	"

Surrogate: o-Terphenyl	69.7 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2320	07/23/2021	07/24/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00316	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	12.7	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	90.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N02@4

7/23/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	106 %	70-130	B1G23 20	07/23/2021	07/24/2021
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Metals by Saturated Paste

Calcium	8.21	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	2.91	0.0823	"	"	"	"	"
Sodium	5.50	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00373	0.0024	0.00335	mg/Kg	5	L566206	07/28/2021	07/29/2021	
2-Methylnaphthalene	0.00281	0.00271	0.00335	"	"	"	"	"	J
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	0.00317	0.00213	0.00335	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	0.00862	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	
Fluorene	0.015	0.00251	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N02@4

7/23/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107492-01 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00234	0.00335	mg/Kg	5	L566206	07/28/2021	07/29/2021	
Pyrene	0.00392	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	71.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	85 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.6 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.42			pH Units	1	B1G2708	07/27/2021	07/28/2021	
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SAR by 20B Saturated Paste

SAR	2.34			SAR	1	B1G2717	07/27/2021	07/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.56		0.00500	mmhos/cm	1	B1G2712	07/27/2021	07/28/2021	
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Total Metals by 6020B

Arsenic	2.3	0.0855	0.25	mg/Kg	5	L566196	07/28/2021	07/29/2021	
Barium	84.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.276	0.0259	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N02@4

7/23/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107492-01 (Soil)

Total Metals by 6020B

Copper	11.1	0.0806	0.25	mg/Kg	5	L566196	07/28/2021	07/29/2021	
Lead	9.44	0.031	0.25	"	"	"	"	"	
Nickel	10.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.488	0.103	0.25	"	"	"	"	"	
Silver	0.0667	0.0067	0.25	"	"	"	"	"	J
Zinc	44.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L566328	07/23/2021	07/29/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S02@4
7/23/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.483	0.201	mg/L	1	B1G2602	07/26/2021	07/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	43.7	25.0	mg/kg	1	B1G2317	07/23/2021	07/24/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2323	07/23/2021	07/23/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	4.57	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S02@4

7/23/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-02 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	107 %	70-130	B1G23 23	07/23/2021	07/23/2021
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Metals by Saturated Paste

Calcium	5.04	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	2.79	0.0823	"	"	"	"	"
Sodium	8.13	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L566206	07/28/2021	07/29/2021
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"
Benzo(a)pyrene	0.0012	0.000665	0.00335	"	"	"	"	" J
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	0.00211	0.00128	0.00335	"	"	"	"	" J
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.015	0.00251	0.00335	"	"	"	"	"

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S02@4

7/23/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107492-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L566206	07/28/2021	07/29/2021
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	80.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	65.1 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.54	pH Units	1	B1G2708	07/27/2021	07/28/2021
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SAR by 20B Saturated Paste

SAR	4.11	SAR	1	B1G2717	07/27/2021	07/28/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.45	0.00500	mmhos/cm	1	B1G2712	07/27/2021	07/28/2021
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Total Metals by 6020B

Arsenic	0.979	0.0855	0.25	mg/Kg	5	L566196	07/28/2021	07/29/2021
Barium	102	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S02@4

7/23/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107492-02 (Soil)

Total Metals by 6020B

Cadmium	0.164	0.0259	0.25	mg/Kg	5	L566196	07/28/2021	07/29/2021	J
Copper	11.8	0.0806	0.25	"	"	"	"	"	
Lead	10	0.031	0.25	"	"	"	"	"	
Nickel	8.51	0.0633	0.25	"	"	"	"	"	
Selenium	0.589	0.103	0.25	"	"	"	"	"	
Silver	0.0745	0.0067	0.25	"	"	"	"	"	J
Zinc	60.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.51	mg/Kg	1	L566328	07/23/2021	07/29/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B03@8'

7/23/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.00297	0.00198	mg/L	1	B1G2602	07/26/2021	07/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2317	07/23/2021	07/24/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.3 %	50-150			"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0248	0.00200	mg/kg	1	B1G2323	07/23/2021	07/24/2021	
1,3,5-Trimethylbenzene	0.00820	0.00200	"	"	"	"	"	
Benzene	0.0197	0.00200	"	"	"	"	"	
Ethylbenzene	0.00812	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.28	0.200	"	"	"	"	"	
Xylenes, total	0.0103	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	93.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B03@8'

7/23/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-03 (Soil)

Metals by Saturated Paste

Calcium	3.48	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	1.94	0.0823	"	"	"	"	"
Sodium	8.19	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000719	0.00048	0.00067	mg/Kg	1	L566206	07/28/2021	07/29/2021
2-Methylnaphthalene	0.000783	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000421	0.000133	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	0.00028	0.000138	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	0.00117	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	0.000558	0.000501	0.00067	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	0.000945	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	66.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	70.8 %		33-122			"	"	"

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B03@8'

7/23/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107492-03 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	65.5 %	29-110	L566206	07/28/2021	07/29/2021
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pH in Soil by EPA 9045D

pH	7.58	pH Units	1	B1G2708	07/27/2021	07/28/2021
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SAR by 20B Saturated Paste

SAR	4.97	SAR	1	B1G2717	07/27/2021	07/28/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.32	0.00500	mmhos/cm	1	B1G2712	07/27/2021	07/28/2021
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Total Metals by 6020B

Arsenic	1.17	0.0855	0.25	mg/Kg	5	L566196	07/28/2021	07/29/2021
Barium	56.4	0.042	0.25	"	"	"	"	"
Cadmium	0.118	0.0259	0.25	"	"	"	"	J
Copper	6.49	0.0806	0.25	"	"	"	"	"
Lead	7.15	0.031	0.25	"	"	"	"	"
Nickel	5.04	0.0633	0.25	"	"	"	"	"
Selenium	0.338	0.103	0.25	"	"	"	"	"
Silver	0.0591	0.0067	0.25	"	"	"	"	J
Zinc	26.8	0.534	2.5	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

B03@8'

7/23/2021 2:14:00PM

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

Y107492-03 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	1	L566328	07/23/2021	07/29/2021
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B04@8'

7/23/2021 2:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1G2602	07/26/2021	07/26/2021
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	63.3	25.0	mg/kg	1	B1G2317	07/23/2021	07/24/2021
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	U

Surrogate: o-Terphenyl	87.8 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.208	0.00200	mg/kg	1	B1G2323	07/23/2021	07/24/2021
1,3,5-Trimethylbenzene	0.116	0.00200	"	"	"	"	"
Benzene	0.0261	0.00200	"	"	"	"	"
Ethylbenzene	0.0231	0.00200	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	U
Gasoline Range Hydrocarbons	19.6	0.200	"	"	"	"	"
Xylenes, total	0.228	0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	92.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	119 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B04@8'

7/23/2021 2:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107492-04 (Soil)

Metals by Saturated Paste

Calcium	2.89		0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021	
Magnesium	1.69		0.0823	"	"	"	"	"	
Sodium	5.21		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0273	0.00048	0.00067	mg/Kg	1	L566206	07/28/2021	07/29/2021	
2-Methylnaphthalene	0.0621	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.000472	0.000426	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000424	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000356	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00174	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00936	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000354	0.000344	0.00067	"	"	"	"	"	J
Naphthalene	0.012	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00101	0.000387	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	67.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.7 %		33-122			"	"	"	

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B04@8'

7/23/2021 2:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107492-04 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	73.7 %	29-110	L566206	07/28/2021	07/29/2021
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pH in Soil by EPA 9045D

pH	7.69	pH Units	1	B1G2708	07/27/2021	07/28/2021
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SAR by 20B Saturated Paste

SAR	3.45	SAR	1	B1G2717	07/27/2021	07/28/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.995	0.00500	mmhos/cm	1	B1G2712	07/27/2021	07/28/2021
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Total Metals by 6020B

Arsenic	1	0.0855	0.25	mg/Kg	5	L566196	07/28/2021	07/29/2021
Barium	47.1	0.042	0.25	"	"	"	"	"
Cadmium	0.0796	0.0259	0.25	"	"	"	"	J
Copper	5.6	0.0806	0.25	"	"	"	"	"
Lead	6.28	0.031	0.25	"	"	"	"	"
Nickel	3.82	0.0633	0.25	"	"	"	"	"
Selenium	0.35	0.103	0.25	"	"	"	"	"
Silver	0.0369	0.0067	0.25	"	"	"	"	J
Zinc	25.6	0.534	2.5	"	"	"	"	"

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

B04@8'

7/23/2021 2:21:00PM

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

Y107492-04 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L566328	07/23/2021	07/29/2021
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2317 - EPA 3550B										
Blank (B1G2317-BLK1)					Prepared: 07/23/2021 Analyzed: 07/23/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		89.6	50-150			

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2317 - EPA 3550B

LCS (B1G2317-BS1)

Prepared: 07/23/2021 Analyzed: 07/23/2021

Diesel (C10-C28)	942	50.0	mg/kg	1000		94.2	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	51		"	50.0		101	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2317 - EPA 3550B

Matrix Spike (B1G2317-MS1)		Source: Y107486-01			Prepared: 07/23/2021 Analyzed: 07/23/2021					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	50-150			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2317 - EPA 3550B

Matrix Spike Dup (B1G2317-MSD1)		Source: Y107486-01			Prepared: 07/23/2021 Analyzed: 07/23/2021					
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130	18.9	35	
Residual Range Organics (C28-C40)	835	200	"	1000	ND	83.5	70-130	21.2	35	
Surrogate: o-Terphenyl	43		"	50.0		85.1	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2320 - EPA 5030 (soil)										
Blank (B1G2320-BLK1)					Prepared: 07/23/2021 Analyzed: 07/23/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2320 - EPA 5030 (soil)										
LCS (B1G2320-BS1)					Prepared: 07/23/2021 Analyzed: 07/23/2021					
1,2,4-Trimethylbenzene	0.0569	0.00200	mg/kg	0.0500		114	70-130			
Naphthalene	0.0547	0.0100	"	0.0500		109	70-130			
1,3,5-Trimethylbenzene	0.0550	0.00200	"	0.0500		110	70-130			
Benzene	0.0529	0.00200	"	0.0500		106	70-130			
Ethylbenzene	0.0555	0.00200	"	0.0500		111	70-130			
m,p-Xylene	0.113	0.00400	"	0.100		113	70-130			
o-Xylene	0.0550	0.00200	"	0.0500		110	70-130			
Toluene	0.0545	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2320 - EPA 5030 (soil)

Matrix Spike (B1G2320-MS1)		Source: Y107489-01			Prepared: 07/23/2021 Analyzed: 07/23/2021					
1,2,4-Trimethylbenzene	0.0508	0.00200	mg/kg	0.0500	0.000460	101	70-130			
Naphthalene	0.0496	0.0100	"	0.0500	0.00394	91.3	70-130			
1,3,5-Trimethylbenzene	0.0473	0.00200	"	0.0500	ND	94.6	70-130			
Benzene	0.0459	0.00200	"	0.0500	ND	91.7	70-130			
Ethylbenzene	0.0474	0.00200	"	0.0500	ND	94.8	70-130			
m,p-Xylene	0.0990	0.00400	"	0.100	ND	99.0	70-130			
o-Xylene	0.0517	0.00200	"	0.0500	ND	103	70-130			
Toluene	0.0457	0.00200	"	0.0500	ND	91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2320 - EPA 5030 (soil)										
Matrix Spike Dup (B1G2320-MSD1)	Source: Y107489-01				Prepared: 07/23/2021 Analyzed: 07/23/2021					
1,2,4-Trimethylbenzene	0.0573	0.00200	mg/kg	0.0500	0.000460	114	70-130	12.0	20	
Naphthalene	0.0579	0.0100	"	0.0500	0.00394	108	70-130	15.4	20	
1,3,5-Trimethylbenzene	0.0563	0.00200	"	0.0500	ND	113	70-130	17.5	20	
Benzene	0.0518	0.00200	"	0.0500	ND	104	70-130	12.1	20	
Ethylbenzene	0.0550	0.00200	"	0.0500	ND	110	70-130	14.9	20	
m,p-Xylene	0.117	0.00400	"	0.100	ND	117	70-130	16.8	20	
o-Xylene	0.0606	0.00200	"	0.0500	ND	121	70-130	15.8	20	
Toluene	0.0525	0.00200	"	0.0500	ND	105	70-130	13.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2323 - EPA 5030 (soil)										
Blank (B1G2323-BLK1)					Prepared: 07/23/2021 Analyzed: 07/24/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2323 - EPA 5030 (soil)										
LCS (B1G2323-BS1)					Prepared: 07/23/2021 Analyzed: 07/24/2021					
1,2,4-Trimethylbenzene	0.0537	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0508	0.0100	"	0.0500		102	70-130			
1,3,5-Trimethylbenzene	0.0528	0.00200	"	0.0500		106	70-130			
Benzene	0.0479	0.00200	"	0.0500		95.7	70-130			
Ethylbenzene	0.0510	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0551	0.00200	"	0.0500		110	70-130			
Toluene	0.0483	0.00200	"	0.0500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2323 - EPA 5030 (soil)

Matrix Spike (B1G2323-MS1)		Source: Y107493-01			Prepared: 07/23/2021 Analyzed: 07/24/2021					
1,2,4-Trimethylbenzene	0.0522	0.00200	mg/kg	0.0500	ND	104	70-130			
Naphthalene	0.0479	0.0100	"	0.0500	0.000560	94.6	70-130			
1,3,5-Trimethylbenzene	0.0512	0.00200	"	0.0500	ND	102	70-130			
Benzene	0.0503	0.00200	"	0.0500	ND	101	70-130			
Ethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130			
m,p-Xylene	0.107	0.00400	"	0.100	ND	107	70-130			
o-Xylene	0.0551	0.00200	"	0.0500	ND	110	70-130			
Toluene	0.0496	0.00200	"	0.0500	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2323 - EPA 5030 (soil)										
Matrix Spike Dup (B1G2323-MSD1)		Source: Y107493-01			Prepared: 07/23/2021 Analyzed: 07/24/2021					
1,2,4-Trimethylbenzene	0.0521	0.00200	mg/kg	0.0500	ND	104	70-130	0.115	20	
Naphthalene	0.0497	0.0100	"	0.0500	0.000560	98.3	70-130	3.81	20	
1,3,5-Trimethylbenzene	0.0507	0.00200	"	0.0500	ND	101	70-130	0.982	20	
Benzene	0.0483	0.00200	"	0.0500	ND	96.7	70-130	3.97	20	
Ethylbenzene	0.0499	0.00200	"	0.0500	ND	99.7	70-130	0.440	20	
m,p-Xylene	0.107	0.00400	"	0.100	ND	107	70-130	0.804	20	
o-Xylene	0.0548	0.00200	"	0.0500	ND	110	70-130	0.582	20	
Toluene	0.0474	0.00200	"	0.0500	ND	94.7	70-130	4.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1G2708 - NO PREP

Duplicate (B1G2708-DUP1)	Source: Y107493-01		Prepared: 07/27/2021 Analyzed: 07/28/2021							
pH	6.22		pH Units		6.31			1.44	25	

Batch B1G2712 - NO PREP

Blank (B1G2712-BLK1)	Prepared: 07/27/2021 Analyzed: 07/28/2021									
Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
Duplicate (B1G2712-DUP1)	Source: Y107493-01		Prepared: 07/27/2021 Analyzed: 07/28/2021							
Specific Conductance (EC)	0.110	0.00500	mmhos/cm		0.115			4.81	25	

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566206 - 3550B

MSD (L 88973-MSD-L566206)		Source: 88973			Prepared: 07/28/2021 Analyzed: 07/29/2021					
Benzo(k)fluoranthene	0.0849	0.000486	mg/Kg	0.166	88973	51.1	30-130	2.9	30	
Fluoranthene	0.117	0.000529	"	0.166	88973	70.4	30-130	1.6	30	
Pyrene	0.114	0.000387	"	0.166	88973	68.6	30-130	1.7	30	
Naphthalene	0.112	0.000467	"	0.166	88973	67.4	30-130	0.8	30	
Fluorene	0.118	0.000501	"	0.166	88973	71	30-130	2.5	30	
Dibenz(a,h)anthracene	0.125	0.000279	"	0.166	88973	75.3	30-130	10.9	30	
Chrysene	0.131	0.000256	"	0.166	88973	78.9	30-130	5.2	30	
1-Methylnaphthalene	0.118	0.00048	"	0.166	88973	71	30-130	0	30	
Benzo(a)pyrene	0.127	0.000133	"	0.166	88973	76.5	30-130	5.3	30	
Indeno(1,2,3-cd)pyrene	0.0977	0.000344	"	0.166	88973	58.8	30-130	9.8	30	
Benzo(b)fluoranthene	0.0956	0.000138	"	0.166	88973	57.5	30-130	9.1	30	
2-Methylnaphthalene	0.118	0.000542	"	0.166	88973	71	30-130	0	30	
Acenaphthene	0.113	0.000431	"	0.166	88973	68	30-130	2.6	30	
Anthracene	0.123	0.000426	"	0.166	88973	74	30-130	3.2	30	
Benzo(a)anthracene	0.121	0.000441	"	0.166	88973	72.8	30-130	1.6	30	
Surrogate: Nitrobenzene-d5	70.6		"	0.331	222	70.6	29-110			
Surrogate: 2-Fluorobiphenyl	70.3		"	0.331	213	70.3	33-115			
Surrogate: 4-Terphenyl-d14	65.5		"	0.331	214	65.5	33-122			

MS (L 88973-MS-L566206)		Source: 88973			Prepared: 07/28/2021 Analyzed: 07/29/2021					
Benzo(k)fluoranthene	0.0824	0.000486	mg/Kg	0.166	88973	49.6	30-130			
Naphthalene	0.111	0.000467	"	0.166	88973	66.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0885	0.000344	"	0.166	88973	53.3	30-130			
Fluorene	0.121	0.000501	"	0.166	88973	72.8	30-130			
Fluoranthene	0.119	0.000529	"	0.166	88973	71.6	30-130			
Dibenz(a,h)anthracene	0.112	0.000279	"	0.166	88973	67.4	30-130			
Chrysene	0.138	0.000256	"	0.166	88973	83.1	30-130			

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566206 - 3550B

MS (L 88973-MS-L566206)		Source: 88973			Prepared: 07/28/2021 Analyzed: 07/29/2021					
1-Methylnaphthalene	0.118	0.00048	mg/Kg	0.166	88973	71	30-130			
Benzo(a)pyrene	0.134	0.000133	"	0.166	88973	80.7	30-130			
Benzo(a)anthracene	0.123	0.000441	"	0.166	88973	74	30-130			
Acenaphthene	0.116	0.000431	"	0.166	88973	69.8	30-130			
Pyrene	0.116	0.000387	"	0.166	88973	69.8	30-130			
2-Methylnaphthalene	0.118	0.000542	"	0.166	88973	71	30-130			
Benzo(b)fluoranthene	0.0872	0.000138	"	0.166	88973	52.5	30-130			
Anthracene	0.127	0.000426	"	0.166	88973	76.5	30-130			
Surrogate: 4-Terphenyl-d14	67.1		"	0.332	214	67.1	33-122			
Surrogate: Nitrobenzene-d5	69.8		"	0.332	222	69.8	29-110			
Surrogate: 2-Fluorobiphenyl	72.2		"	0.332	213	72.2	33-115			

LCS (LCS-L566206)		Prepared: 07/28/2021 Analyzed: 07/29/2021								
Chrysene	0.132	0.000256	mg/Kg	0.167		79	30-130			
Dibenz(a,h)anthracene	0.114	0.000279	"	0.167		68.2	30-130			
Fluoranthene	0.117	0.000529	"	0.167		70	30-130			
Fluorene	0.113	0.000501	"	0.167		67.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0922	0.000344	"	0.167		55.2	30-130			
Pyrene	0.114	0.000387	"	0.167		68.2	30-130			
Benzo(k)fluoranthene	0.0853	0.000486	"	0.167		51	30-130			
Naphthalene	0.108	0.000467	"	0.167		64.6	30-130			
Benzo(a)pyrene	0.126	0.000133	"	0.167		75.4	30-130			
Benzo(a)anthracene	0.117	0.000441	"	0.167		70	30-130			
Anthracene	0.123	0.000426	"	0.167		73.6	30-130			
Acenaphthene	0.107	0.000431	"	0.167		64	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.167		66.4	30-130			
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130			

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566206 - 3550B

LCS (LCS-L566206)

Prepared: 07/28/2021 Analyzed: 07/29/2021

Benzo(b)fluoranthene	0.0891	0.000138	mg/Kg	0.167		53.3	30-130			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			
Surrogate: 4-Terphenyl-d14	72		"	0.333		72	33-122			
Surrogate: 2-Fluorobiphenyl	77.1		"	0.333		77.1	33-115			

LRB (LRB-L566206)

Prepared: 07/28/2021 Analyzed: 07/29/2021

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	71.4		"	0.333		71.4	29-110			
Surrogate: 4-Terphenyl-d14	63.9		"	0.333		63.9	33-122			
Surrogate: 2-Fluorobiphenyl	70.5		"	0.333		70.5	33-115			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566196 - 3050B										
MSD (L 88969-MSD-L566196)			Source: 88969		Prepared: 07/28/2021 Analyzed: 07/29/2021					
Zinc	98.4	0.534	mg/Kg	24.1	63.7	144	75-125	20	80	*
Barium	67.5	0.042	"	4.82	71.9	NR	75-125	7.5	80	*
Cadmium	0.535	0.0259	"	0.482	0.0882	111	75-125	8.5	80	
Copper	11.3	0.0806	"	2.41	9.36	80	75-125	4.5	80	
Lead	40.9	0.031	"	2.41	61	NR	75-125	9.7	80	*
Nickel	10.8	0.0633	"	2.41	9.38	59	75-125	2.8	80	*
Silver	0.472	0.0067	"	0.482	0.0545	98	75-125	8.1	80	
Selenium	4.36	0.103	"	4.82	0.506	80	75-125	3.7	80	
Arsenic	4.96	0.0855	"	2.41	2.9	85	75-125	0.8	80	
MS (L 88969-MS-L566196)			Source: 88969		Prepared: 07/28/2021 Analyzed: 07/29/2021					
Copper	10.8	0.0806	mg/Kg	2.47	9.36	58	75-125			*
Zinc	80.5	0.534	"	24.7	63.7	68	75-125			*
Silver	0.512	0.0067	"	0.495	0.0545	104	75-125			
Selenium	4.2	0.103	"	4.95	0.506	75	75-125			
Lead	37.1	0.031	"	2.47	61	NR	75-125			*
Cadmium	0.583	0.0259	"	0.495	0.0882	118	75-125			
Barium	72.8	0.042	"	4.95	71.9	18	75-125			*
Arsenic	4.92	0.0855	"	2.47	2.9	82	75-125			
Nickel	10.5	0.0633	"	2.47	9.38	45	75-125			*
LCS (LCS-L566196)			Prepared: 07/28/2021 Analyzed: 07/29/2021							
Lead	2.38	0.031	mg/Kg	2.5		95	80-120			
Arsenic	2.18	0.0855	"	2.5		87	80-120			
Zinc	22.8	0.534	"	25		91	80-120			
Silver	0.477	0.0067	"	0.5		95	80-120			
Selenium	4.42	0.103	"	5		88	80-120			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566196 - 3050B

LCS (LCS-L566196)

Prepared: 07/28/2021 Analyzed: 07/29/2021

Nickel	2.31	0.0633	mg/Kg	2.5		92	80-120			
Cadmium	0.45	0.0259	"	0.5		90	80-120			
Barium	4.39	0.042	"	5		88	80-120			
Copper	2.21	0.0806	"	2.5		88	80-120			

LRB (LRB-L566196)

Prepared: 07/28/2021 Analyzed: 07/29/2021

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

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Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566328 -										
DUP (L 99468-DUP)	Source: 99468				Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.492	mg/Kg		99468	-		0	20	
MS (L 99468-MS)	Source: 99468				Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.502	mg/Kg	8.27	99468	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	6.67	0.244	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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.

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August 06, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. July 26, 2021. This project is associated with Origins project number Y107516-01.

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

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

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

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

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

Origins Laboratory, Inc.
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B05@8'	Y107516-01	Soil	July 26, 2021 12:16	07/26/2021 17:50
B06@8'	Y107516-02	Soil	July 26, 2021 12:24	07/26/2021 17:50
N03@4'	Y107516-03	Soil	July 26, 2021 11:58	07/26/2021 17:50
E01@4'	Y107516-04	Soil	July 26, 2021 12:04	07/26/2021 17:50
E02@4'	Y107516-05	Soil	July 26, 2021 12:30	07/26/2021 17:50
S03@4'	Y107516-06	Soil	July 26, 2021 12:35	07/26/2021 17:50

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4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y107516

Client: WSP USA

Client Project ID: Olsen 2-2

Checklist Completed by: fwu

Shipped Via: HP

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

Date/time completed: 7-26-21

Airbill #:

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1 1.4 °C

Thermometer ID: TC03

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

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

Jordan A. Merrill
Reviewed By (Project Manager)

7-26-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B05@8'

7/26/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1G2721	07/27/2021	07/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2619	07/26/2021	07/26/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	0.00264	0.00200	mg/kg	1	B1G2605	07/26/2021	07/26/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.16	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	88.6 %	70-130	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B05@8'

7/26/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	102 %	70-130	B1G26 05	07/26/2021	07/26/2021
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Metals by Saturated Paste

Calcium	2.16	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	1.14	0.0823	"	"	"	"	"
Sodium	2.82	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566296	07/29/2021	07/29/2021
2-Methylnaphthalene	0.000793	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000521	0.000441	0.00067	"	"	"	"	" J
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	0.000726	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B05@8'

7/26/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L566296	07/29/2021	07/29/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000458	0.000387	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	78.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	65.6 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.77			pH Units	1	B1G2710	07/27/2021	07/28/2021	
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SAR by 20B Saturated Paste

SAR	2.19			SAR	1	B1G2726	07/27/2021	07/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.697		0.00500	mmhos/cm	1	B1G2714	07/27/2021	07/28/2021	
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Total Metals by 6020B

Arsenic	ND	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Barium	3.91	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B05@8'

7/26/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-01 (Soil)

Total Metals by 6020B

Cadmium	ND	0.0259	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Copper	0.565	0.0806	0.25	"	"	"	"	"	
Lead	0.931	0.031	0.25	"	"	"	"	"	
Nickel	0.604	0.0633	0.25	"	"	"	"	"	
Selenium	0.175	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	4.83	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L566325	07/26/2021	07/29/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B06@8'

7/26/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.302	0.201	mg/L	1	B1G2721	07/27/2021	07/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	209	25.0	mg/kg	1	B1G2619	07/26/2021	07/26/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.4 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.148	0.0500	mg/kg	25	B1G2605	07/26/2021	07/26/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	1	"	"	07/26/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	8.47	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	85.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B06@8'

7/26/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-02 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	109 %	70-130	B1G26 05	07/26/2021	07/26/2021
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Metals by Saturated Paste

Calcium	3.02	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	2.08	0.0823	"	"	"	"	"
Sodium	5.60	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.125	0.0024	0.00335	mg/Kg	5	L566296	07/29/2021	07/29/2021
2-Methylnaphthalene	0.279	0.00271	0.00335	"	"	"	"	"
Acenaphthene	0.012	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.0023	0.00221	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	0.00369	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.0214	0.00251	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B06@8'

7/26/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-02 (Soil)

PAH by 8270D SIM

Naphthalene	0.103	0.00234	0.00335	mg/Kg	5	L566296	07/29/2021	07/29/2021	
Pyrene	0.00323	0.00194	0.00335	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	70.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.1 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.54			pH Units	1	B1G2710	07/27/2021	07/28/2021	
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SAR by 20B Saturated Paste

SAR	3.52			SAR	1	B1G2726	07/27/2021	07/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.07		0.00500	mmhos/cm	1	B1G2714	07/27/2021	07/28/2021	
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Total Metals by 6020B

Arsenic	4.67	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Barium	54	0.042	0.25	"	"	"	"	"	
Cadmium	0.339	0.0259	0.25	"	"	"	"	"	

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B06@8'

7/26/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-02 (Soil)

Total Metals by 6020B

Copper	12.2	0.0806	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Lead	7.58	0.031	0.25	"	"	"	"	"	
Nickel	9.35	0.0633	0.25	"	"	"	"	"	
Selenium	0.627	0.103	0.25	"	"	"	"	"	
Silver	0.0401	0.0067	0.25	"	"	"	"	"	J
Zinc	40.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.46	5.04	mg/Kg	10	L566325	07/26/2021	07/29/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N03@4'

7/26/2021 11:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.297	0.198	mg/L	1	B1H0529	08/05/2021	08/06/2021
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	436	25.0	mg/kg	1	B1G2619	07/26/2021	07/26/2021
Residual Range Organics (C28-C40)	171	100	"	"	"	"	"

Surrogate: o-Terphenyl	99.4 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00576	0.00200	mg/kg	1	B1G2605	07/26/2021	07/26/2021
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Gasoline Range Hydrocarbons	9.99	0.200	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	84.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N03@4'

7/26/2021 11:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-03 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	109 %	70-130	B1G26 05	07/26/2021	07/26/2021
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Metals by Saturated Paste

Calcium	4.63	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	2.23	0.0823	"	"	"	"	"
Sodium	6.67	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L566296	07/29/2021	07/29/2021
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"
Acenaphthene	0.00375	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.00254	0.00221	0.00335	"	"	"	"	" J
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	0.00265	0.00128	0.00335	"	"	"	"	" J
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.0129	0.00251	0.00335	"	"	"	"	"

Origins Laboratory, Inc.

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N03@4'

7/26/2021 11:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L566296	07/29/2021	07/29/2021	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	0.00224	0.00194	0.00335	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	62.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.2 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.48			pH Units	1	B1G2710	07/27/2021	07/28/2021	
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SAR by 20B Saturated Paste

SAR	3.60			SAR	1	B1G2726	07/27/2021	07/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.32		0.00500	mmhos/cm	1	B1G2714	07/27/2021	07/28/2021	
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Total Metals by 6020B

Arsenic	0.821	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Barium	146	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N03@4'

7/26/2021 11:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-03 (Soil)

Total Metals by 6020B

Cadmium	0.183	0.0259	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	J
Copper	9.91	0.0806	0.25	"	"	"	"	"	
Lead	9.24	0.031	0.25	"	"	"	"	"	
Nickel	9.28	0.0633	0.25	"	"	"	"	"	
Selenium	0.589	0.103	0.25	"	"	"	"	"	
Silver	0.0528	0.0067	0.25	"	"	"	"	"	J
Zinc	60.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L566325	07/26/2021	07/29/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E01@4'

7/26/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.321	0.200	mg/L	1	B1G2721	07/27/2021	07/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2619	07/26/2021	07/26/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.2 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2605	07/26/2021	07/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

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



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E01@4'

7/26/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	85.2 %		70-130			B1G26 05	07/26/2021	07/26/2021	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.46		0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021	
Magnesium	1.54		0.0823	"	"	"	"	"	
Sodium	4.31		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566296	07/29/2021	07/29/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.000447	0.000431	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000648	0.000441	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000336	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000634	0.000138	0.00067	"	"	"	"	"	JB
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.0012	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.000568	0.000529	0.00067	"	"	"	"	"	J
Fluorene	0.00176	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E01@4'

7/26/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L566296	07/29/2021	07/29/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00107	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	75.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	58.3 %		29-110			"	"	"

pH in Soil by EPA 9045D

pH	7.55			pH Units	1	B1G2710	07/27/2021	07/28/2021
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SAR by 20B Saturated Paste

SAR	3.05			SAR	1	B1G2726	07/27/2021	07/28/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.828		0.00500	mmhos/cm	1	B1G2714	07/27/2021	07/28/2021
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Total Metals by 6020B

Arsenic	1.02	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021
Barium	69.1	0.042	0.25	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E01@4'

7/26/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-04 (Soil)

Total Metals by 6020B

Cadmium	0.112	0.0259	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	J
Copper	8.12	0.0806	0.25	"	"	"	"	"	
Lead	9.1	0.031	0.25	"	"	"	"	"	
Nickel	5.59	0.0633	0.25	"	"	"	"	"	
Selenium	0.442	0.103	0.25	"	"	"	"	"	
Silver	0.0628	0.0067	0.25	"	"	"	"	"	J
Zinc	33.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.26	2.59	mg/Kg	20	L566325	07/26/2021	07/29/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E02@4'

7/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.381	0.201	mg/L	1	B1G2721	07/27/2021	07/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	90.4	25.0	mg/kg	1	B1G2619	07/26/2021	07/26/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.6 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2605	07/26/2021	07/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.06	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	85.6 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E02@4'

7/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-05 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 100 % 70-130 B1G26 05 07/26/2021 07/26/2021

Metals by Saturated Paste

Calcium	1.97	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	1.88	0.0823	"	"	"	"	"
Sodium	5.44	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L566296	07/29/2021	07/29/2021
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.00241	0.00221	0.00335	"	"	"	"	J
Benzo(a)pyrene	0.00127	0.000665	0.00335	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	0.00407	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.00297	0.00251	0.00335	"	"	"	"	J

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E02@4'

7/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L566296	07/29/2021	07/29/2021	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	0.00276	0.00194	0.00335	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	82.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	69.5 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.71			pH Units	1	B1G2710	07/27/2021	07/28/2021	
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SAR by 20B Saturated Paste

SAR	3.92			SAR	1	B1G2726	07/27/2021	07/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.908		0.00500	mmhos/cm	1	B1G2714	07/27/2021	07/28/2021	
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Total Metals by 6020B

Arsenic	1.53	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Barium	74.3	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E02@4'

7/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-05 (Soil)

Total Metals by 6020B

Cadmium	0.174	0.0259	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	J
Copper	9.19	0.0806	0.25	"	"	"	"	"	
Lead	12	0.031	0.25	"	"	"	"	"	
Nickel	5.74	0.0633	0.25	"	"	"	"	"	
Selenium	0.343	0.103	0.25	"	"	"	"	"	
Silver	0.0926	0.0067	0.25	"	"	"	"	"	J
Zinc	37.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	50	L566325	07/26/2021	07/29/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S03@4'

7/26/2021 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.383	0.202	mg/L	1	B1G2721	07/27/2021	07/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	85.5	25.0	mg/kg	1	B1G2619	07/26/2021	07/26/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.8 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00264	0.00200	mg/kg	1	B1G2605	07/26/2021	07/26/2021	
1,3,5-Trimethylbenzene	0.0108	0.00200	"	"	"	"	07/27/2021	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00398	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	5.51	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	86.2 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S03@4'

7/26/2021 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107516-06 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	104 %	70-130	B1G26 05	07/26/2021	07/27/2021
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Metals by Saturated Paste

Calcium	5.59	0.0499	meq/L	1	[CALC]	07/27/2021	07/28/2021
Magnesium	2.94	0.0823	"	"	"	"	"
Sodium	7.97	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00686	0.00048	0.00067	mg/Kg	1	L566296	07/29/2021	07/29/2021	
2-Methylnaphthalene	0.0148	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.00213	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00101	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000622	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000937	0.000138	0.00067	"	"	"	"	"	B
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00222	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.000875	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00476	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000349	0.000344	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S03@4'

7/26/2021 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-06 (Soil)

PAH by 8270D SIM

Naphthalene	0.00303	0.000467	0.00067	mg/Kg	1	L566296	07/29/2021	07/29/2021	
Pyrene	0.00204	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	75.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	82.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.7 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.29			pH Units	1	B1G2710	07/27/2021	07/28/2021	
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SAR by 20B Saturated Paste

SAR	3.85			SAR	1	B1G2726	07/27/2021	07/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.66		0.00500	mmhos/cm	1	B1G2714	07/27/2021	07/28/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L566326	07/26/2021	07/29/2021	
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Total Metals by 6020B

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S03@4'

7/26/2021 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107516-06 (Soil)

Total Metals by 6020B

Arsenic	2.44	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Barium	102	0.042	0.25	"	"	"	"	"	
Cadmium	0.199	0.0259	0.25	"	"	"	"	"	J
Copper	14.1	0.0806	0.25	"	"	"	"	"	
Lead	11.3	0.031	0.25	"	"	"	"	"	
Nickel	9.42	0.0633	0.25	"	"	"	"	"	
Selenium	0.629	0.103	0.25	"	"	"	"	"	
Silver	0.0646	0.0067	0.25	"	"	"	"	"	J
Zinc	59.5	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2605 - EPA 5030 (soil)										
Blank (B1G2605-BLK1)					Prepared: 07/26/2021 Analyzed: 07/26/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
o-Xylene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2605 - EPA 5030 (soil)										
LCS (B1G2605-BS1)					Prepared: 07/26/2021 Analyzed: 07/26/2021					
1,2,4-Trimethylbenzene	0.0494	0.00200	mg/kg	0.0500		98.8	70-130			
Naphthalene	0.0463	0.0100	"	0.0500		92.7	70-130			
1,3,5-Trimethylbenzene	0.0494	0.00200	"	0.0500		98.9	70-130			
Benzene	0.0593	0.00200	"	0.0500		119	70-130			
Ethylbenzene	0.0493	0.00200	"	0.0500		98.5	70-130			
m,p-Xylene	0.100	0.00400	"	0.100		100	70-130			
o-Xylene	0.0485	0.00200	"	0.0500		97.0	70-130			
Toluene	0.0497	0.00200	"	0.0500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2605 - EPA 5030 (soil)										
Matrix Spike (B1G2605-MS1)		Source: Y107497-02			Prepared: 07/26/2021 Analyzed: 07/26/2021					
1,2,4-Trimethylbenzene	0.0527	0.00200	mg/kg	0.0500	0.0399	25.5	70-130			QM-07
Naphthalene	0.0516	0.0100	"	0.0500	0.0152	73.0	70-130			
1,3,5-Trimethylbenzene	0.0512	0.00200	"	0.0500	0.00316	96.0	70-130			
Benzene	0.0634	0.00200	"	0.0500	0.000580	126	70-130			
Ethylbenzene	0.0515	0.00200	"	0.0500	0.00286	97.2	70-130			
m,p-Xylene	0.106	0.00400	"	0.100	0.00460	102	70-130			
o-Xylene	0.0515	0.00200	"	0.0500	0.00386	95.3	70-130			
Toluene	0.0555	0.00200	"	0.0500	0.000640	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Project: KMG - Olsen 2-2

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 B1G2605 - EPA 5030 (soil)										
Matrix Spike Dup (B1G2605-MSD1)			Source: Y107497-02		Prepared: 07/26/2021 Analyzed: 07/26/2021					
1,2,4-Trimethylbenzene	0.0577	0.00200	mg/kg	0.0500	0.0399	35.5	70-130	9.06	20	QM-07
Naphthalene	0.0571	0.0100	"	0.0500	0.0152	84.0	70-130	10.1	20	
1,3,5-Trimethylbenzene	0.0573	0.00200	"	0.0500	0.00316	108	70-130	11.2	20	
Benzene	0.0704	0.00200	"	0.0500	0.000580	140	70-130	10.4	20	QM-07
Ethylbenzene	0.0565	0.00200	"	0.0500	0.00286	107	70-130	9.30	20	
m,p-Xylene	0.114	0.00400	"	0.100	0.00460	110	70-130	7.17	20	
o-Xylene	0.0560	0.00200	"	0.0500	0.00386	104	70-130	8.37	20	
Toluene	0.0575	0.00200	"	0.0500	0.000640	114	70-130	3.54	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2619 - EPA 3550B										
Blank (B1G2619-BLK1)					Prepared: 07/26/2021 Analyzed: 07/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		90.0	50-150			

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Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2619 - EPA 3550B

LCS (B1G2619-BS1)

Prepared: 07/26/2021 Analyzed: 07/26/2021

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000		90.9	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.0	50-150			

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1G2619 - EPA 3550B

Matrix Spike (B1G2619-MS1)		Source: Y107516-01			Prepared: 07/26/2021 Analyzed: 07/26/2021					
Diesel (C10-C28)	933	50.0	mg/kg	1000	ND	93.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.4	50-150			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2619 - EPA 3550B

Matrix Spike Dup (B1G2619-MSD1)		Source: Y107516-01			Prepared: 07/26/2021 Analyzed: 07/26/2021					
Diesel (C10-C28)	895	50.0	mg/kg	1000	ND	89.5	70-130	4.19	35	
Residual Range Organics (C28-C40)	975	200	"	1000	ND	97.5	70-130	5.40	35	
Surrogate: o-Terphenyl	48		"	50.0		96.5	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1G2710 - NO PREP

Duplicate (B1G2710-DUP1)		Source: Y107491-02		Prepared: 07/27/2021 Analyzed: 07/28/2021						
pH	8.12		pH Units		7.97			1.86	25	

Batch B1G2714 - NO PREP

Blank (B1G2714-BLK1)		Prepared: 07/27/2021 Analyzed: 07/28/2021								
Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
Duplicate (B1G2714-DUP1)		Source: Y107491-02		Prepared: 07/27/2021 Analyzed: 07/28/2021						
Specific Conductance (EC)	2.92	0.00500	mmhos/cm		2.41			19.1	25	

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566296 - 3550B

LCS (LCS-L566296)

Prepared: 07/29/2021 Analyzed: 07/29/2021

Benzo(k)fluoranthene	0.118	0.000486	mg/Kg	0.167		70.6	30-130			
Benzo(b)fluoranthene	0.0975	0.000138	"	0.167		58.3	30-130			
Benzo(a)pyrene	0.118	0.000133	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.114	0.000441	"	0.167		68.2	30-130			
Acenaphthene	0.115	0.000431	"	0.167		68.8	30-130			
Chrysene	0.135	0.000256	"	0.167		80.8	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130			
1-Methylnaphthalene	0.108	0.00048	"	0.167		64.6	30-130			
Anthracene	0.128	0.000426	"	0.167		76.6	30-130			
Pyrene	0.127	0.000387	"	0.167		76	30-130			
Fluoranthene	0.128	0.000529	"	0.167		76.6	30-130			
Fluorene	0.116	0.000501	"	0.167		69.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0691	0.000344	"	0.167		41.3	30-130			
Naphthalene	0.107	0.000467	"	0.167		64	30-130			
Dibenz(a,h)anthracene	0.0799	0.000279	"	0.167		47.8	30-130			

Surrogate: 2-Fluorobiphenyl	85.5		"	0.333		85.5	33-115			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 4-Terphenyl-d14	83.1		"	0.333		83.1	33-122			

LRB (LRB-L566296)

Prepared: 07/29/2021 Analyzed: 07/29/2021

Benzo(k)fluoranthene	ND	0.00067	mg/Kg			-				
Chrysene	ND	0.00067	"			-				
Fluoranthene	ND	0.00067	"			-				
Indeno(1,2,3-cd)pyrene	ND	0.00067	"			-				
Benzo(b)fluoranthene	0.000298	0.00067	"			-				J
Dibenz(a,h)anthracene	ND	0.00067	"			-				
Pyrene	ND	0.00067	"			-				

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566296 - 3550B

LRB (LRB-L566296)

Prepared: 07/29/2021 Analyzed: 07/29/2021

Naphthalene	ND	0.00067	mg/Kg				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.8		"	0.333		58.8	29-110			
Surrogate: 4-Terphenyl-d14	81.9		"	0.333		81.9	33-122			
Surrogate: 2-Fluorobiphenyl	68.7		"	0.333		68.7	33-115			

MSD (N 96917-MSD-L566296)

Source: 96917

Prepared: 07/29/2021 Analyzed: 07/29/2021

Benzo(a)pyrene	0.124	0.00266	mg/Kg	0.165	96917	75.1	30-130	1.6	30	
1-Methylnaphthalene	0.417	0.0096	"	0.165	0.252	100	30-130	11.9	30	
2-Methylnaphthalene	0.637	0.0108	"	0.165	0.428	127	30-130	10.4	30	
Acenaphthene	0.104	0.00862	"	0.165	96917	63	30-130	19.9	30	
Benzo(a)anthracene	0.111	0.00882	"	0.165	0.013	67.2	30-130	10.2	30	
Benzo(b)fluoranthene	0.0929	0.00276	"	0.165	0.00691	56.3	30-130	2.8	30	
Benzo(k)fluoranthene	0.117	0.00972	"	0.165	96917	70.9	30-130	5	30	
Chrysene	0.149	0.00512	"	0.165	0.0119	90.3	30-130	1.9	30	
Dibenz(a,h)anthracene	0.064	0.00558	"	0.165	96917	38.7	30-130	19.9	30	
Fluoranthene	0.129	0.0106	"	0.165	0.0233	64	30-130	3.8	30	
Fluorene	0.0957	0.01	"	0.165	96917	58	30-130	20.8	30	
Indeno(1,2,3-cd)pyrene	0.0714	0.00688	"	0.165	96917	43.2	30-130	3.7	30	
Naphthalene	0.454	0.00934	"	0.165	0.247	125	30-130	8	30	
Pyrene	0.141	0.00774	"	0.165	0.023	71.5	30-130	2.1	30	

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566296 - 3550B										
MSD (N 96917-MSD-L566296)		Source: 96917			Prepared: 07/29/2021 Analyzed: 07/29/2021					
Anthracene	0.0982	0.00852	mg/Kg	0.165	96917	59.5	30-130	23.2	30	
Surrogate: 2-Fluorobiphenyl	64.5		"	0.33	262	64.5	33-115			
Surrogate: Nitrobenzene-d5	68.7		"	0.33	239	68.7	29-110			
Surrogate: 4-Terphenyl-d14	72.4		"	0.33	281	72.4	33-122			
MS (N 96917-MS-L566296)		Source: 96917			Prepared: 07/29/2021 Analyzed: 07/29/2021					
Fluorene	0.118	0.01	mg/Kg	0.167	96917	70.6	30-130			
Benzo(a)anthracene	0.123	0.00882	"	0.167	0.013	73.6	30-130			
Anthracene	0.124	0.00852	"	0.167	96917	74.2	30-130			
Acenaphthene	0.127	0.00862	"	0.167	96917	76	30-130			
2-Methylnaphthalene	0.707	0.0108	"	0.167	0.428	167	30-130			*
1-Methylnaphthalene	0.47	0.0096	"	0.167	0.252	131	30-130			*
Pyrene	0.138	0.00774	"	0.167	0.023	68.8	30-130			
Benzo(b)fluoranthene	0.0956	0.00276	"	0.167	0.00691	57.2	30-130			
Benzo(k)fluoranthene	0.123	0.00972	"	0.167	96917	73.6	30-130			
Chrysene	0.152	0.00512	"	0.167	0.0119	91	30-130			
Benzo(a)pyrene	0.122	0.00266	"	0.167	96917	73	30-130			
Fluoranthene	0.134	0.0106	"	0.167	0.0233	66.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0741	0.00688	"	0.167	96917	44.3	30-130			
Naphthalene	0.492	0.00934	"	0.167	0.247	147	30-130			*
Dibenz(a,h)anthracene	0.0782	0.00558	"	0.167	96917	46.8	30-130			
Surrogate: 4-Terphenyl-d14	85.2		"	0.333	281	85.2	33-122			
Surrogate: 2-Fluorobiphenyl	79.8		"	0.333	262	79.8	33-115			
Surrogate: Nitrobenzene-d5	83.4		"	0.333	239	83.4	29-110			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566326 -										
DUP (L 88984-DUP)	Source: Y107516-06				Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		88984	-		0	20	
MS (L 88984-MS)	Source: Y107516-06				Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg	7.8	88984	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	6.75	0.244	mg/Kg	8		84	75-125			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566195 - 3050B

MSD (L 99466-MSD-L566195)			Source: 99466			Prepared: 07/28/2021 Analyzed: 07/29/2021				
Nickel	8.67	0.0633	mg/Kg	2.4	5.01	152	75-125	15.9	80	*
Arsenic	3.77	0.0855	"	2.4	1.23	106	75-125	22	80	
Barium	43.8	0.042	"	4.81	35.1	181	75-125	5.5	80	*
Cadmium	0.628	0.0259	"	0.481	0.0773	131	75-125	20.3	80	*
Lead	9.81	0.031	"	2.4	5.02	199	75-125	27.8	80	*
Selenium	5.35	0.103	"	4.81	0.991	91	75-125	19.2	80	
Silver	0.511	0.0067	"	0.481	0.0179	106	75-125	14.9	80	
Zinc	45.6	0.534	"	24	18.6	112	75-125	6.8	80	
Copper	7.67	0.0806	"	2.4	4.75	121	75-125	6.1	80	
MS (L 99466-MS-L566195)			Source: 99466			Prepared: 07/28/2021 Analyzed: 07/29/2021				
Silver	0.44	0.0067	mg/Kg	0.465	0.0179	95	75-125			
Selenium	4.41	0.103	"	4.65	0.991	74	75-125			*
Nickel	7.39	0.0633	"	2.33	5.01	102	75-125			
Lead	7.41	0.031	"	2.33	5.02	103	75-125			
Copper	7.21	0.0806	"	2.33	4.75	106	75-125			
Cadmium	0.512	0.0259	"	0.465	0.0773	110	75-125			
Barium	46.3	0.042	"	4.65	35.1	241	75-125			*
Arsenic	3.02	0.0855	"	2.33	1.23	77	75-125			
Zinc	42.6	0.534	"	23.3	18.6	103	75-125			
LCS (LCS-L566195)			Prepared: 07/28/2021 Analyzed: 07/29/2021							
Lead	2.43	0.031	mg/Kg	2.5		97	80-120			
Arsenic	2.36	0.0855	"	2.5		94	80-120			
Barium	4.7	0.042	"	5		94	80-120			
Copper	2.34	0.0806	"	2.5		94	80-120			
Nickel	2.31	0.0633	"	2.5		92	80-120			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566195 - 3050B

LCS (LCS-L566195)

Prepared: 07/28/2021 Analyzed: 07/29/2021

Selenium	4.86	0.103	mg/Kg	5		97	80-120			
Silver	0.485	0.0067	"	0.5		97	80-120			
Zinc	23.1	0.534	"	25		92	80-120			
Cadmium	0.465	0.0259	"	0.5		93	80-120			

LRB (LRB-L566195)

Prepared: 07/28/2021 Analyzed: 07/29/2021

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

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566325 -										
DUP (L 88972-DUP)		Source: 88972			Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		88972	-		0	20	
MS (L 88972-MS)		Source: 88972			Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.245	mg/Kg	8.07	88972	0	75-125			*
LRB (LRB)					Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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

JB [Undefined]

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.



August 04, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. July 28, 2021. This project is associated with Origins project number Y107583-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@11'	Y107583-01	Soil	July 28, 2021 13:50	07/28/2021 16:35
B08@11'	Y107583-02	Soil	July 28, 2021 13:55	07/28/2021 16:35
B09@11'	Y107583-03	Soil	July 28, 2021 14:01	07/28/2021 16:35
B10@11'	Y107583-04	Soil	July 28, 2021 14:05	07/28/2021 16:35

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.

Page 3 of 29

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y107583

Client: WSP/KMG

Client Project ID: Olsen 2-2

Checklist Completed by: jm

Shipped Via: HD

Date/time completed: 7-28-21

Airbill #: N/A

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

Cooler Number/temperature: 122.3 °C / °C / °C (Describe)

Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)		X		
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: jm (Project Manager)

Date/Time Reviewed: 7-28-21

Origins Laboratory, Inc.

Jordan A. Merrill

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B07@11'

7/28/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-01 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1G2821	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	0.590		0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021	
Magnesium	0.273		0.0823	"	"	"	"	"	
Sodium	1.16		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B07@11'

7/28/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107583-01 (Soil)

PAH by 8270D SIM

Benzo(b)fluoranthene	ND	0.000138	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	65.7 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.97	pH Units	1	B1G2908	07/29/2021	07/29/2021
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SAR by 20B Saturated Paste

SAR	1.76	SAR	1	B1G2914	07/29/2021	07/29/2021
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B07@11'

7/28/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-01 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.229	0.00500	mmhos/cm	1	B1G2911	07/29/2021	07/29/2021
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Total Metals by 6020B

Arsenic	0.304	0.0855	0.25	mg/Kg	5	L566684	07/30/2021	08/02/2021
Barium	2.77	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.919	0.0806	0.25	"	"	"	"	"
Lead	1.1	0.031	0.25	"	"	"	"	"
Nickel	0.53	0.0633	0.25	"	"	"	"	"
Selenium	ND	0.103	0.25	"	"	"	"	"
Silver	0.0073	0.0067	0.25	"	"	"	"	"
Zinc	8.96	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L566773	07/28/2021	08/02/2021
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B08@11'

7/28/2021 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-02 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2821	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130	"	"	"
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	1.05	0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021
Magnesium	0.472	0.0823	"	"	"	"	"
Sodium	1.66	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B08@11'

7/28/2021 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107583-02 (Soil)

PAH by 8270D SIM

Benzo(b)fluoranthene	ND	0.000138	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	67.2 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	8.00	pH Units	1	B1G2908	07/29/2021	07/29/2021
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SAR by 20B Saturated Paste

SAR	1.91	SAR	1	B1G2914	07/29/2021	07/29/2021
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Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B08@11'

7/28/2021 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-02 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.355	0.00500	mmhos/cm	1	B1G2911	07/29/2021	07/29/2021
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Total Metals by 6020B

Arsenic	0.446	0.0855	0.25	mg/Kg	5	L566684	07/30/2021	08/02/2021
Barium	2.34	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.739	0.0806	0.25	"	"	"	"	"
Lead	0.862	0.031	0.25	"	"	"	"	"
Nickel	0.423	0.0633	0.25	"	"	"	"	"
Selenium	0.109	0.103	0.25	"	"	"	"	"
Silver	ND	0.0067	0.25	"	"	"	"	"
Zinc	4.06	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L566773	07/28/2021	08/02/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B09@11'

7/28/2021 2:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-03 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2821	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	0.715	0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021
Magnesium	0.316	0.0823	"	"	"	"	"
Sodium	1.46	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B09@11'

7/28/2021 2:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107583-03 (Soil)

PAH by 8270D SIM

Benzo(b)fluoranthene	ND	0.000138	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.4 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	8.10	pH Units	1	B1G2908	07/29/2021	07/29/2021
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SAR by 20B Saturated Paste

SAR	2.04	SAR	1	B1G2914	07/29/2021	07/29/2021
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Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B09@11'

7/28/2021 2:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-03 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.281	0.00500	mmhos/cm	1	B1G2911	07/29/2021	07/29/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L566775	07/28/2021	08/02/2021
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Total Metals by 6020B

Arsenic	0.273	0.0855	0.25	mg/Kg	5	L566684	07/30/2021	08/02/2021
Barium	2.95	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.662	0.0806	0.25	"	"	"	"	"
Lead	1.01	0.031	0.25	"	"	"	"	"
Nickel	0.526	0.0633	0.25	"	"	"	"	"
Selenium	ND	0.103	0.25	"	"	"	"	"
Silver	ND	0.0067	0.25	"	"	"	"	"
Zinc	4.39	0.534	2.5	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B10@11'

7/28/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-04 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2821	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130	"	"	"
Surrogate: Toluene-d8	97.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	0.904	0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021
Magnesium	0.417	0.0823	"	"	"	"	"
Sodium	1.51	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B10@11'

7/28/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107583-04 (Soil)

PAH by 8270D SIM

Benzo(b)fluoranthene	ND	0.000138	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.94	pH Units	1	B1G2908	07/29/2021	07/29/2021
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SAR by 20B Saturated Paste

SAR	1.85	SAR	1	B1G2914	07/29/2021	07/29/2021
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B10@11'

7/28/2021 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107583-04 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.323	0.00500	mmhos/cm	1	B1G2911	07/29/2021	07/29/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L566775	07/28/2021	08/02/2021
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Total Metals by 6020B

Arsenic	ND	0.0855	0.25	mg/Kg	5	L566684	07/30/2021	08/02/2021
Barium	3.73	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.627	0.0806	0.25	"	"	"	"	"
Lead	1.07	0.031	0.25	"	"	"	"	"
Nickel	0.562	0.0633	0.25	"	"	"	"	"
Selenium	0.138	0.103	0.25	"	"	"	"	"
Silver	ND	0.0067	0.25	"	"	"	"	"
Zinc	4.07	0.534	2.5	"	"	"	"	"

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2821 - EPA 5030 (soil)										
Blank (B1G2821-BLK1)					Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.1		70-130			
Surrogate: Toluene-d8	0.15		"	0.125	116		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	112		70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2821 - EPA 5030 (soil)										
LCS (B1G2821-BS1)					Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	0.0524	0.00200	mg/kg	0.0500		105	70-130			
Naphthalene	0.0496	0.0100	"	0.0500		99.1	70-130			
1,3,5-Trimethylbenzene	0.0512	0.00200	"	0.0500		102	70-130			
Benzene	0.0493	0.00200	"	0.0500		98.6	70-130			
Ethylbenzene	0.0475	0.00200	"	0.0500		95.0	70-130			
m,p-Xylene	0.101	0.00400	"	0.100		101	70-130			
o-Xylene	0.0481	0.00200	"	0.0500		96.1	70-130			
Toluene	0.0487	0.00200	"	0.0500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2821 - EPA 5030 (soil)										
Matrix Spike (B1G2821-MS1)		Source: Y107570-01			Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	0.0530	0.00200	mg/kg	0.0500	0.0215	63.1	70-130			QM-07
Naphthalene	0.0545	0.0100	"	0.0500	0.00172	106	70-130			
1,3,5-Trimethylbenzene	0.0504	0.00200	"	0.0500	0.00280	95.3	70-130			
Benzene	0.0494	0.00200	"	0.0500	0.00296	92.8	70-130			
Ethylbenzene	0.0401	0.00200	"	0.0500	0.0167	46.7	70-130			QM-07
m,p-Xylene	0.0840	0.00400	"	0.100	0.00894	75.0	70-130			
o-Xylene	0.0432	0.00200	"	0.0500	ND	86.4	70-130			
Toluene	0.0593	0.00200	"	0.0500	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		118	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G2821 - EPA 5030 (soil)										
Matrix Spike Dup (B1G2821-MSD1)		Source: Y107570-01			Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	0.0533	0.00200	mg/kg	0.0500	0.0215	63.6	70-130	0.527	20	QM-07
Naphthalene	0.0562	0.0100	"	0.0500	0.00172	109	70-130	3.07	20	
1,3,5-Trimethylbenzene	0.0534	0.00200	"	0.0500	0.00280	101	70-130	5.70	20	
Benzene	0.0513	0.00200	"	0.0500	0.00296	96.6	70-130	3.82	20	
Ethylbenzene	0.0414	0.00200	"	0.0500	0.0167	49.4	70-130	3.29	20	QM-07
m,p-Xylene	0.0876	0.00400	"	0.100	0.00894	78.7	70-130	4.27	20	
o-Xylene	0.0540	0.00200	"	0.0500	ND	108	70-130	22.2	20	QR-03
Toluene	0.0644	0.00200	"	0.0500	ND	129	70-130	8.15	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1G2908 - NO PREP

Duplicate (B1G2908-DUP1)	Source: Y107580-01		Prepared: 07/29/2021 Analyzed: 07/29/2021							
pH	8.18		pH Units		8.09			1.11	25	

Batch B1G2911 - NO PREP

Blank (B1G2911-BLK1)	Prepared: 07/29/2021 Analyzed: 07/29/2021									
Specific Conductance (EC)	0.00120	0.00500	mmhos/cm							
Duplicate (B1G2911-DUP1)	Source: Y107580-01		Prepared: 07/29/2021 Analyzed: 07/29/2021							
Specific Conductance (EC)	2.57	0.00500	mmhos/cm		2.55			0.661	25	

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566834 - 3550B

MSD (L 97048-MSD-L566834)		Source: 97048			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Benzo(a)anthracene	0.126	0.00441	mg/Kg	0.167	97048	75.4	30-130	2.4	30	
Naphthalene	0.117	0.00467	"	0.167	97048	70	30-130	9.8	30	
Indeno(1,2,3-cd)pyrene	0.137	0.00344	"	0.167	97048	82	30-130	14	30	
Fluorene	0.0849	0.00501	"	0.167	97048	50.8	30-130	19.2	30	
Dibenz(a,h)anthracene	0.152	0.00279	"	0.167	97048	91	30-130	14	30	
Fluoranthene	0.162	0.00529	"	0.167	97048	97	30-130	5	30	
Benzo(k)fluoranthene	0.141	0.00486	"	0.167	97048	84.4	30-130	9.6	30	
Benzo(a)pyrene	0.126	0.00133	"	0.167	97048	75.4	30-130	0.7	30	
Anthracene	0.174	0.00426	"	0.167	0.0129	96.4	30-130	37.5	30	
Acenaphthene	0.114	0.00431	"	0.167	97048	68.2	30-130	4.4	30	
2-Methylnaphthalene	0.112	0.00542	"	0.167	97048	67	30-130	5.5	30	
1-Methylnaphthalene	0.121	0.0048	"	0.167	97048	72.4	30-130	6.8	30	
Pyrene	0.154	0.00387	"	0.167	0.00749	87.7	30-130	4.4	30	
Benzo(b)fluoranthene	0.132	0.00138	"	0.167	97048	79	30-130	5.1	30	
Chrysene	0.139	0.00256	"	0.167	97048	83.2	30-130	2.1	30	
Surrogate: Nitrobenzene-d5	66.9		"	0.333	226	66.9	29-110			
Surrogate: 4-Terphenyl-d14	102		"	0.333	322	102	33-122			
Surrogate: 2-Fluorobiphenyl	76.2		"	0.333	251	76.2	33-115			

MS (L 97048-MS-L566834)		Source: 97048			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Fluorene	0.103	0.00501	mg/Kg	0.165	97048	62.4	30-130			
Benzo(k)fluoranthene	0.128	0.00486	"	0.165	97048	77.5	30-130			
Naphthalene	0.106	0.00467	"	0.165	97048	64.2	30-130			
Indeno(1,2,3-cd)pyrene	0.119	0.00344	"	0.165	97048	72.1	30-130			
Pyrene	0.161	0.00387	"	0.165	0.00749	93	30-130			
Fluoranthene	0.154	0.00529	"	0.165	97048	93.3	30-130			
Dibenz(a,h)anthracene	0.132	0.00279	"	0.165	97048	80	30-130			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566834 - 3550B

MS (L 97048-MS-L566834)		Source: 97048			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Chrysene	0.136	0.00256	mg/Kg	0.165	97048	82.4	30-130			
2-Methylnaphthalene	0.106	0.00542	"	0.165	97048	64.2	30-130			
Acenaphthene	0.109	0.00431	"	0.165	97048	66	30-130			
Anthracene	0.119	0.00426	"	0.165	0.0129	64.3	30-130			
Benzo(a)anthracene	0.123	0.00441	"	0.165	97048	74.5	30-130			
1-Methylnaphthalene	0.113	0.0048	"	0.165	97048	68.4	30-130			
Benzo(b)fluoranthene	0.139	0.00138	"	0.165	97048	84.2	30-130			
Benzo(a)pyrene	0.125	0.00133	"	0.165	97048	75.7	30-130			
Surrogate: Nitrobenzene-d5	56		"	0.33	226	56	29-110			
Surrogate: 2-Fluorobiphenyl	65.7		"	0.33	251	65.7	33-115			
Surrogate: 4-Terphenyl-d14	95.7		"	0.33	322	95.7	33-122			

LCS (LCS-L566834)		Prepared: 08/02/2021 Analyzed: 08/02/2021								
Naphthalene	0.105	0.000467	mg/Kg	0.167		62.8	30-130			
Acenaphthene	0.109	0.000431	"	0.167		65.2	30-130			
Chrysene	0.115	0.000256	"	0.167		68.8	30-130			
Dibenz(a,h)anthracene	0.0875	0.000279	"	0.167		52.3	30-130			
Fluoranthene	0.115	0.000529	"	0.167		68.8	30-130			
Pyrene	0.115	0.000387	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0736	0.000344	"	0.167		44	30-130			
Benzo(k)fluoranthene	0.0823	0.000486	"	0.167		49.2	30-130			
Fluorene	0.111	0.000501	"	0.167		66.4	30-130			
Benzo(b)fluoranthene	0.0851	0.000138	"	0.167		50.9	30-130			
Benzo(a)pyrene	0.117	0.000133	"	0.167		70	30-130			
Benzo(a)anthracene	0.112	0.000441	"	0.167		67	30-130			
1-Methylnaphthalene	0.106	0.00048	"	0.167		63.4	30-130			
2-Methylnaphthalene	0.104	0.000542	"	0.167		62.2	30-130			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566834 - 3550B

LCS (LCS-L566834)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Anthracene	0.115	0.000426	mg/Kg	0.167		68.8	30-130			
Surrogate: 2-Fluorobiphenyl	74.4		"	0.333		74.4	33-115			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			

LRB (LRB-L566834)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566775 -										
DUP (L 96959-DUP)	Source: Y107583-03				Prepared: Analyzed: 08/02/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		96959	-		0	20	
MS (L 96959-MS)	Source: Y107583-03				Prepared: Analyzed: 08/02/2021					
Chromium, Hexavalent	6.78	0.244	mg/Kg	8	96959	85	75-125			
LRB (LRB)					Prepared: Analyzed: 08/02/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566684 - 3050B										
MSD (L 96991-MSD-L566684)			Source: 96991		Prepared: 07/30/2021 Analyzed: 08/03/2021					
Silver	0.493	0.0067	mg/Kg	0.496	0.0274	99	75-125	1.4	80	
Zinc	53	0.534	"	24.8	31.7	86	75-125	5.3	80	
Selenium	4.28	0.103	"	4.96	0.298	80	75-125	9.2	80	
Nickel	9.49	0.0633	"	2.48	7.27	90	75-125	5.2	80	
Lead	9.55	0.031	"	2.48	7.66	76	75-125	10.4	80	
Copper	8.06	0.0806	"	2.48	6.31	71	75-125	12.6	80	*
Cadmium	0.558	0.0259	"	0.496	0.135	113	75-125	2.3	80	
Barium	104	0.042	"	4.96	102	40	75-125	16.8	80	*
Arsenic	3.54	0.0855	"	2.48	1.7	74	75-125	2.5	80	*
MS (L 96991-MS-L566684)			Source: 96991		Prepared: 07/30/2021 Analyzed: 08/02/2021					
Zinc	55.9	0.534	mg/Kg	23.5	31.7	103	75-125			
Arsenic	3.45	0.0855	"	2.35	1.7	74	75-125			*
Nickel	10	0.0633	"	2.35	7.27	116	75-125			
Lead	10.6	0.031	"	2.35	7.66	125	75-125			
Silver	0.5	0.0067	"	0.47	0.0274	106	75-125			
Copper	9.15	0.0806	"	2.35	6.31	121	75-125			
Cadmium	0.571	0.0259	"	0.47	0.135	122	75-125			
Barium	87.8	0.042	"	4.7	102	NR	75-125			*
Selenium	3.9	0.103	"	4.7	0.298	77	75-125			
LCS (LCS-L566684)			Prepared: 07/30/2021 Analyzed: 08/02/2021							
Arsenic	2.28	0.0855	mg/Kg	2.5		91	80-120			
Silver	0.501	0.0067	"	0.5		100	80-120			
Selenium	4.7	0.103	"	5		94	80-120			
Nickel	2.46	0.0633	"	2.5		98	80-120			
Lead	2.35	0.031	"	2.5		94	80-120			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566684 - 3050B

LCS (LCS-L566684)

Prepared: 07/30/2021 Analyzed: 08/02/2021

Copper	2.23	0.0806	mg/Kg	2.5		89	80-120			
Barium	4.93	0.042	"	5		99	80-120			
Zinc	22.7	0.534	"	25		91	80-120			
Cadmium	0.454	0.0259	"	0.5		91	80-120			

LRB (LRB-L566684)

Prepared: 07/30/2021 Analyzed: 08/03/2021

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

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566773 -										
DUP (L 96947-DUP)		Source: 96947			Prepared: Analyzed: 08/02/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		96947	-		0	20	
MS (L 96947-MS)		Source: 96947			Prepared: Analyzed: 08/02/2021					
Chromium, Hexavalent	4.97	0.244	mg/Kg	7.7	96947	65	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/02/2021					
Chromium, Hexavalent	6.69	0.244	mg/Kg	8		84	75-125			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

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.



August 10, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. July 30, 2021. This project is associated with Origins project number Y107636-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B11@11'	Y107636-01	Soil	July 30, 2021 14:55	07/30/2021 17:12
S04@4'	Y107636-02	Soil	July 30, 2021 15:04	07/30/2021 17:12
W03@4'	Y107636-03	Soil	July 30, 2021 15:12	07/30/2021 17:12
W04@4'	Y107636-04	Soil	July 30, 2021 15:20	07/30/2021 17:12
W05@4'	Y107636-05	Soil	July 30, 2021 15:28	07/30/2021 17:12

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.

Page 3 of 29

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y1076234 Client: WSP/KMA

Checklist Completed by: jm SG Client Project ID: Olsen 2-2

Date/time completed: 7/30/21 Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: L1 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

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)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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 jm (Project Manager) Date/Time Reviewed 7-30-21

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B11@11'

7/30/2021 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1H0203	08/02/2021	08/04/2021
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G3001	07/30/2021	07/30/2021	U
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Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	1.46	0.0499	meq/L	1	[CALC]	08/04/2021	08/05/2021
Magnesium	0.648	0.0823	"	"	"	"	"
Sodium	2.14	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L567280	08/04/2021	08/04/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B11@11'

7/30/2021 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107636-01 (Soil)

PAH by 8270D SIM

Benzo(a)pyrene	ND	0.000133	0.00067	mg/Kg	1	L567280	08/04/2021	08/04/2021
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	73.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.6 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.89	pH Units	1	B1H0414	08/04/2021	08/04/2021
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SAR by 20B Saturated Paste

SAR	2.09	SAR	1	B1H0419	08/04/2021	08/05/2021
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Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B11@11'

7/30/2021 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-01 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.492	0.00500	mmhos/cm	1	B1H0413	08/04/2021	08/04/2021
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Total Metals by 6020B

Arsenic	0.286	0.0855	0.25	mg/Kg	5	L567169	08/03/2021	08/04/2021	
Barium	3.19	0.042	0.25	"	"	"	"	"	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	0.712	0.0806	0.25	"	"	"	"	"	B
Lead	0.983	0.031	0.25	"	"	"	"	"	
Nickel	0.477	0.0633	0.25	"	"	"	"	"	
Selenium	0.112	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	3.47	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L567259	07/30/2021	08/04/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S04@4'

7/30/2021 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1H0203	08/02/2021	08/04/2021
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GBTEX+TMBs

1,3,5-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G3001	07/30/2021	07/30/2021	U
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Surrogate: 1,2-Dichloroethane-d4	119 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.09	0.0499	meq/L	1	[CALC]	08/04/2021	08/05/2021
Magnesium	1.04	0.0823	"	"	"	"	"
Sodium	3.64	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.81	pH Units	1	B1H0414	08/04/2021	08/04/2021
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SAR by 20B Saturated Paste

SAR	2.91	SAR	1	B1H0419	08/04/2021	08/05/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S04@4'

7/30/2021 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-02 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.724	0.00500	mmhos/cm	1	B1H0413	08/04/2021	08/04/2021
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Total Metals by 6020B

Arsenic	0.542	0.0855	0.25	mg/Kg	5	L567169	08/03/2021	08/04/2021
Barium	36.9	0.042	0.25	"	"	"	"	"
Cadmium	0.0274	0.0259	0.25	"	"	"	"	J
Copper	2.66	0.0806	0.25	"	"	"	"	"
Lead	4.07	0.031	0.25	"	"	"	"	"
Nickel	1.96	0.0633	0.25	"	"	"	"	"
Selenium	0.247	0.103	0.25	"	"	"	"	J
Silver	0.016	0.0067	0.25	"	"	"	"	J
Zinc	14.9	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L567259	07/30/2021	08/04/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W03@4'

7/30/2021 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.382	0.201	mg/L	1	B1H0203	08/02/2021	08/04/2021
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GBTEX+TMBs

1,3,5-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G3001	07/30/2021	07/30/2021	U
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Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.36	0.0499	meq/L	1	[CALC]	08/04/2021	08/05/2021
Magnesium	1.16	0.0823	"	"	"	"	"
Sodium	5.21	0.0435	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.68	pH Units	1	B1H0414	08/04/2021	08/04/2021
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SAR by 20B Saturated Paste

SAR	3.93	SAR	1	B1H0419	08/04/2021	08/05/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W03@4'

7/30/2021 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-03 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.883	0.00500	mmhos/cm	1	B1H0413	08/04/2021	08/04/2021
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Total Metals by 6020B

Arsenic	0.891	0.0855	0.25	mg/Kg	5	L567169	08/03/2021	08/04/2021
Barium	85.3	0.042	0.25	"	"	"	"	"
Cadmium	0.156	0.0259	0.25	"	"	"	"	J
Copper	10.4	0.0806	0.25	"	"	"	"	"
Lead	11.2	0.031	0.25	"	"	"	"	"
Nickel	6.05	0.0633	0.25	"	"	"	"	"
Selenium	0.487	0.103	0.25	"	"	"	"	"
Silver	0.0794	0.0067	0.25	"	"	"	"	J
Zinc	47.9	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L567259	07/30/2021	08/04/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W04@4'

7/30/2021 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.697	0.199	mg/L	1	B1H0901	08/09/2021	08/09/2021	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G3001	07/30/2021	07/30/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130	"	"	"
Surrogate: Toluene-d8	97.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	1.83	0.0499	meq/L	1	[CALC]	08/04/2021	08/05/2021
Magnesium	0.889	0.0823	"	"	"	"	"
Sodium	7.28	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L567280	08/04/2021	08/04/2021
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W04@4'

7/30/2021 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107636-04 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00221	0.00335	mg/Kg	5	L567280	08/04/2021	08/04/2021
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	ND	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	0.0036	0.00251	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	71.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	67.2 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.29	pH Units	1	B1H0414	08/04/2021	08/04/2021
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SAR by 20B Saturated Paste

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W04@4'

7/30/2021 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-04 (Soil)

SAR by 20B Saturated Paste

SAR	6.24			SAR	1	B1H0419	08/04/2021	08/05/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.05		0.00500	mmhos/cm	1	B1H0413	08/04/2021	08/04/2021	
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Total Metals by 6020B

Arsenic	2.97	0.0855	0.25	mg/Kg	5	L567169	08/03/2021	08/04/2021	
Barium	165	0.042	0.25	"	"	"	"	"	
Cadmium	0.183	0.0259	0.25	"	"	"	"	"	J
Copper	22.5	0.0806	0.25	"	"	"	"	"	
Lead	15.4	0.031	0.25	"	"	"	"	"	
Nickel	10	0.0633	0.25	"	"	"	"	"	
Selenium	1.01	0.103	0.25	"	"	"	"	"	
Silver	0.131	0.0067	0.25	"	"	"	"	"	J
Zinc	79.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L567259	07/30/2021	08/04/2021	
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W05@4'

7/30/2021 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.542	0.201	mg/L	1	B1H0901	08/09/2021	08/09/2021	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G3001	07/30/2021	08/02/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	124 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.71	0.0499	meq/L	1	[CALC]	08/04/2021	08/05/2021
Magnesium	1.36	0.0823	"	"	"	"	"
Sodium	7.43	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0096	0.0134	mg/Kg	20	L567280	08/04/2021	08/04/2021
2-Methylnaphthalene	ND	0.0108	0.0134	"	"	"	"	"
Acenaphthene	ND	0.00862	0.0134	"	"	"	"	"
Anthracene	ND	0.00852	0.0134	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W05@4'

7/30/2021 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107636-05 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00882	0.0134	mg/Kg	20	L567280	08/04/2021	08/04/2021	
Benzo(a)pyrene	ND	0.00266	0.0134	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00276	0.0134	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00972	0.0134	"	"	"	"	"	
Chrysene	0.0102	0.00512	0.0134	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	5	"	"	"	
Fluoranthene	ND	0.0106	0.0134	"	20	"	"	"	
Fluorene	0.083	0.00251	0.00335	"	5	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00688	0.0134	"	20	"	"	"	
Naphthalene	ND	0.00934	0.0134	"	"	"	"	"	
Pyrene	0.0116	0.00774	0.0134	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	61.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	87.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	66.4 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	6.97	pH Units	1	B1H0414	08/04/2021	08/04/2021
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SAR by 20B Saturated Paste

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W05@4'

7/30/2021 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107636-05 (Soil)

SAR by 20B Saturated Paste

SAR	5.21			SAR	1	B1H0419	08/04/2021	08/05/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.24	0.00500	mmhos/cm	1	B1H0413	08/04/2021	08/04/2021	
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Total Metals by 6020B

Arsenic	8.75	0.0855	0.25	mg/Kg	5	L567169	08/03/2021	08/04/2021	
Barium	198	0.042	0.25	"	"	"	"	"	
Cadmium	0.179	0.0259	0.25	"	"	"	"	"	J
Copper	17.4	0.0806	0.25	"	"	"	"	"	
Lead	12.5	0.031	0.25	"	"	"	"	"	
Nickel	8.08	0.0633	0.25	"	"	"	"	"	
Selenium	1.24	0.103	0.25	"	"	"	"	"	
Silver	0.0835	0.0067	0.25	"	"	"	"	"	J
Zinc	53.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L567259	07/30/2021	08/04/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G3001 - EPA 5030 (soil)										
Blank (B1G3001-BLK1)					Prepared: 07/30/2021 Analyzed: 07/30/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G3001 - EPA 5030 (soil)										
LCS (B1G3001-BS1)					Prepared: 07/30/2021 Analyzed: 07/30/2021					
1,2,4-Trimethylbenzene	0.0591	0.00200	mg/kg	0.0500		118	70-130			
Naphthalene	0.0502	0.0100	"	0.0500		100	70-130			
1,3,5-Trimethylbenzene	0.0585	0.00200	"	0.0500		117	70-130			
Benzene	0.0539	0.00200	"	0.0500		108	70-130			
Ethylbenzene	0.0511	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.110	0.00400	"	0.100		110	70-130			
o-Xylene	0.0558	0.00200	"	0.0500		112	70-130			
Toluene	0.0529	0.00200	"	0.0500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G3001 - EPA 5030 (soil)

Matrix Spike (B1G3001-MS1)		Source: Y107595-02			Prepared: 07/30/2021 Analyzed: 07/30/2021					
1,2,4-Trimethylbenzene	0.0552	0.00200	mg/kg	0.0500	0.00270	105	70-130			
Naphthalene	0.0580	0.0100	"	0.0500	0.00548	105	70-130			
1,3,5-Trimethylbenzene	0.0514	0.00200	"	0.0500	0.000700	101	70-130			
Benzene	0.0490	0.00200	"	0.0500	ND	98.1	70-130			
Ethylbenzene	0.0474	0.00200	"	0.0500	ND	94.7	70-130			
m,p-Xylene	0.102	0.00400	"	0.100	0.000760	101	70-130			
o-Xylene	0.0511	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0481	0.00200	"	0.0500	ND	96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1G3001 - EPA 5030 (soil)										
Matrix Spike Dup (B1G3001-MSD1)		Source: Y107595-02			Prepared: 07/30/2021 Analyzed: 07/30/2021					
1,2,4-Trimethylbenzene	0.0270	0.00200	mg/kg	0.0500	0.00270	48.7	70-130	68.5	20	QM-07, QR-03
Naphthalene	0.0259	0.0100	"	0.0500	0.00548	40.9	70-130	76.5	20	QM-07, QR-03
1,3,5-Trimethylbenzene	0.0248	0.00200	"	0.0500	0.000700	48.2	70-130	70.0	20	QM-07, QR-03
Benzene	0.0306	0.00200	"	0.0500	ND	61.1	70-130	46.4	20	QM-07, QR-03
Ethylbenzene	0.0282	0.00200	"	0.0500	ND	56.4	70-130	50.6	20	QM-07, QR-03
m,p-Xylene	0.0583	0.00400	"	0.100	0.000760	57.6	70-130	54.2	20	QM-07, QR-03
o-Xylene	0.0298	0.00200	"	0.0500	ND	59.6	70-130	52.7	20	QM-07, QR-03
Toluene	0.0311	0.00200	"	0.0500	ND	62.1	70-130	43.1	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0413 - NO PREP

Blank (B1H0413-BLK1)

Prepared: 08/04/2021 Analyzed: 08/04/2021

Specific Conductance (EC) 0.00210 0.00500 mmhos/cm

Duplicate (B1H0413-DUP1)

Source: Y108005-01

Prepared: 08/04/2021 Analyzed: 08/04/2021

Specific Conductance (EC) 0.308 0.00500 mmhos/cm 0.329 6.55 25

Batch B1H0414 - NO PREP

Duplicate (B1H0414-DUP1)

Source: Y108005-01

Prepared: 08/04/2021 Analyzed: 08/04/2021

pH 8.43 pH Units 8.40 0.357 25

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L567280 - 3550B

MSD (L 98094-MSD-L567280)		Source: 98094			Prepared: 08/04/2021 Analyzed: 08/04/2021					
Benzo(a)pyrene	0.136	0.000133	mg/Kg	0.166	<0.000133	81.9	30-130	2.1	30	
Pyrene	0.136	0.000387	"	0.166	<0.000387	81.9	30-130	1.4	30	
Naphthalene	0.118	0.000467	"	0.166	<0.000467	71	30-130	2.5	30	
Fluorene	0.126	0.000501	"	0.166	<0.000501	75.9	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.131	0.000344	"	0.166	<0.000344	78.9	30-130	9.4	30	
Dibenz(a,h)anthracene	0.138	0.000279	"	0.166	<0.000279	83.1	30-130	8.3	30	
Chrysene	0.14	0.000256	"	0.166	<0.000256	84.3	30-130	0.7	30	
1-Methylnaphthalene	0.122	0.00048	"	0.166	<0.000480	73.4	30-130	0.8	30	
Benzo(b)fluoranthene	0.112	0.000138	"	0.166	<0.000138	67.4	30-130	6	30	
Benzo(a)anthracene	0.129	0.000441	"	0.166	<0.000441	77.7	30-130	0.7	30	
Anthracene	0.132	0.000426	"	0.166	<0.000426	79.5	30-130	2.2	30	
Acenaphthene	0.123	0.000431	"	0.166	<0.000431	74	30-130	0.8	30	
2-Methylnaphthalene	0.121	0.000542	"	0.166	<0.000542	72.8	30-130	0.8	30	
Benzo(k)fluoranthene	0.115	0.000486	"	0.166	<0.000486	69.2	30-130	1.7	30	
Fluoranthene	0.136	0.000529	"	0.166	<0.000529	81.9	30-130	0	30	
Surrogate: Nitrobenzene-d5	68.6		"	0.332	203	68.6	29-110			
Surrogate: 4-Terphenyl-d14	77.1		"	0.332	228	77.1	33-122			
Surrogate: 2-Fluorobiphenyl	77.1		"	0.332	225	77.1	33-115			

MS (L 98094-MS-L567280)		Source: 98094			Prepared: 08/04/2021 Analyzed: 08/04/2021					
Fluorene	0.126	0.000501	mg/Kg	0.166	<0.000501	75.9	30-130			
Benzo(k)fluoranthene	0.117	0.000486	"	0.166	<0.000486	70.4	30-130			
Naphthalene	0.121	0.000467	"	0.166	<0.000467	72.8	30-130			
Indeno(1,2,3-cd)pyrene	0.144	0.000344	"	0.166	<0.000344	86.7	30-130			
Pyrene	0.134	0.000387	"	0.166	<0.000387	80.7	30-130			
Fluoranthene	0.136	0.000529	"	0.166	<0.000529	81.9	30-130			
Dibenz(a,h)anthracene	0.15	0.000279	"	0.166	<0.000279	90.3	30-130			

Origins Laboratory, Inc.

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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L567280 - 3550B

MS (L 98094-MS-L567280)		Source: 98094			Prepared: 08/04/2021 Analyzed: 08/04/2021					
Chrysene	0.139	0.000256	mg/Kg	0.166	<0.000256	83.7	30-130			
2-Methylnaphthalene	0.122	0.000542	"	0.166	<0.000542	73.4	30-130			
Acenaphthene	0.124	0.000431	"	0.166	<0.000431	74.6	30-130			
Benzo(b)fluoranthene	0.119	0.000138	"	0.166	<0.000138	71.6	30-130			
Anthracene	0.135	0.000426	"	0.166	<0.000426	81.3	30-130			
Benzo(a)anthracene	0.13	0.000441	"	0.166	<0.000441	78.3	30-130			
1-Methylnaphthalene	0.123	0.00048	"	0.166	<0.000480	74	30-130			
Benzo(a)pyrene	0.139	0.000133	"	0.166	<0.000133	83.7	30-130			
Surrogate: Nitrobenzene-d5	70.4		"	0.332	203	70.4	29-110			
Surrogate: 2-Fluorobiphenyl	78		"	0.332	225	78	33-115			
Surrogate: 4-Terphenyl-d14	77.4		"	0.332	228	77.4	33-122			

LCS (LCS-L567280)

Prepared: 08/04/2021 Analyzed: 08/04/2021

Naphthalene	0.12	0.000467	mg/Kg	0.167		71.8	30-130
Benzo(a)anthracene	0.129	0.000441	"	0.167		77.2	30-130
Fluoranthene	0.132	0.000529	"	0.167		79	30-130
Fluorene	0.125	0.000501	"	0.167		74.8	30-130
Pyrene	0.132	0.000387	"	0.167		79	30-130
Indeno(1,2,3-cd)pyrene	0.146	0.000344	"	0.167		87.4	30-130
Dibenz(a,h)anthracene	0.153	0.000279	"	0.167		91.6	30-130
1-Methylnaphthalene	0.121	0.00048	"	0.167		72.4	30-130
Chrysene	0.137	0.000256	"	0.167		82	30-130
Benzo(k)fluoranthene	0.123	0.000486	"	0.167		73.6	30-130
Benzo(b)fluoranthene	0.131	0.000138	"	0.167		78.4	30-130
Benzo(a)pyrene	0.136	0.000133	"	0.167		81.4	30-130
2-Methylnaphthalene	0.119	0.000542	"	0.167		71.2	30-130
Acenaphthene	0.12	0.000431	"	0.167		71.8	30-130

Origins Laboratory, Inc.

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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L567280 - 3550B

LCS (LCS-L567280)

Prepared: 08/04/2021 Analyzed: 08/04/2021

Anthracene	0.133	0.000426	mg/Kg	0.167		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	82.8		"	0.333		82.8	33-115			
Surrogate: Nitrobenzene-d5	75.9		"	0.333		75.9	29-110			
Surrogate: 4-Terphenyl-d14	81.9		"	0.333		81.9	33-122			

LRB (LRB-L567280)

Prepared: 08/04/2021 Analyzed: 08/04/2021

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	62.7		"	0.333		62.7	29-110			
Surrogate: 4-Terphenyl-d14	82.8		"	0.333		82.8	33-122			
Surrogate: 2-Fluorobiphenyl	76.8		"	0.333		76.8	33-115			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L567169 - 3050B										
MSD (L 97184-MSD-L567169)			Source: 97184		Prepared: 08/03/2021 Analyzed: 08/04/2021					
Lead	3.09	0.031	mg/Kg	2.38	0.209	130	75-125	11	80	*
Barium	10	0.042	"	4.76	4.66	112	75-125	4.8	80	
Copper	2.45	0.0806	"	2.38	0.227	103	75-125	9.7	80	
Nickel	2.48	0.0633	"	2.38	0.215	104	75-125	12.8	80	
Selenium	4.72	0.103	"	4.76	0.134	99	75-125	6.1	80	
Silver	0.438	0.0067	"	0.476	<0.0067	92	75-125	3.3	80	
Zinc	23.3	0.534	"	23.8	<0.534	98	75-125	10.5	80	
Cadmium	0.472	0.0259	"	0.476	<0.0259	99	75-125	6.3	80	
Arsenic	2.47	0.0855	"	2.38	<0.0855	104	75-125	4.5	80	
MS (L 97184-MS-L567169)			Source: 97184		Prepared: 08/03/2021 Analyzed: 08/04/2021					
Barium	10.5	0.042	mg/Kg	4.86	4.66	120	75-125			
Lead	3.45	0.031	"	2.43	0.209	142	75-125			*
Nickel	2.82	0.0633	"	2.43	0.215	116	75-125			
Selenium	4.44	0.103	"	4.86	0.134	91	75-125			
Silver	0.453	0.0067	"	0.486	<0.0067	93	75-125			
Zinc	25.9	0.534	"	24.3	<0.534	107	75-125			
Cadmium	0.443	0.0259	"	0.486	<0.0259	91	75-125			
Arsenic	2.36	0.0855	"	2.43	<0.0855	97	75-125			
Copper	2.7	0.0806	"	2.43	0.227	111	75-125			
LCS (LCS-L567169)			Prepared: 08/03/2021 Analyzed: 08/04/2021							
Barium	5.15	0.042	mg/Kg	5		103	80-120			
Silver	0.484	0.0067	"	0.5		97	80-120			
Selenium	5.09	0.103	"	5		102	80-120			
Nickel	2.67	0.0633	"	2.5		107	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L567169 - 3050B

LCS (LCS-L567169)

Prepared: 08/03/2021 Analyzed: 08/04/2021

Zinc	25.6	0.534	mg/Kg	25		102	80-120			
Cadmium	0.46	0.0259	"	0.5		92	80-120			
Arsenic	2.52	0.0855	"	2.5		101	80-120			
Copper	2.54	0.0806	"	2.5		102	80-120			

LRB (LRB-L567169)

Prepared: 08/03/2021 Analyzed: 08/04/2021

Selenium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	0.0916	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L567259 -										
DUP (L 97261-DUP)		Source: 97261			Prepared: Analyzed: 08/04/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 97261-MS)		Source: 97261			Prepared: Analyzed: 08/04/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg	7.71	<0.244	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/04/2021					
Chromium, Hexavalent	7.09	0.244	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 08/04/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

B Analyte detected in associated method blank.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.



August 23, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. August 03, 2021. This project is associated with Origins project number Y108051-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S05@4'	Y108051-01	Soil	August 3, 2021 9:30	08/03/2021 16:50
E03@4'	Y108051-02	Soil	August 3, 2021 9:38	08/03/2021 16:50

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108051

Client: WSP

Client Project ID: Olsen 2-2

Checklist Completed by: SG

Date/time completed: 8/3/21

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

Airbill #: N/A

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

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

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/3/21

Origins Laboratory, Inc.

Jordan A. Merrill

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S05@4'

8/3/2021 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108051-01 (Soil)

GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B1H0319	08/03/2021	08/03/2021	U
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Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	90.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	123 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.64	0.0499	meq/L	1	[CALC]	08/07/2021	08/07/2021
Magnesium	1.36	0.0823	"	"	"	"	"
Sodium	7.64	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L569794	08/18/2021	08/18/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.3 %	29-110	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S05@4'

8/3/2021 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108051-01 (Soil)

SAR by 20B Saturated Paste

SAR	5.41			SAR	1	B1H0616	08/07/2021	08/07/2021	
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Total Metals by 6020B

Barium	147	0.042	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	
Selenium	0.491	0.103	0.25	"	"	"	"	"	

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E03@4'

8/3/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108051-02 (Soil)

GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B1H0319	08/03/2021	08/03/2021	U
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Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	87.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	129 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	3.64	0.0499	meq/L	1	[CALC]	08/07/2021	08/07/2021
Magnesium	2.06	0.0823	"	"	"	"	"
Sodium	9.69	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L569794	08/18/2021	08/18/2021
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.6 %	29-110	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

E03@4'

8/3/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108051-02 (Soil)

SAR by 20B Saturated Paste

SAR	5.74			SAR	1	B1H0616	08/07/2021	08/07/2021	
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Total Metals by 6020B

Barium	166	0.042	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	
Selenium	0.841	0.103	0.25	"	"	"	"	"	

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H0319 - EPA 5030 (soil)										
Blank (B1H0319-BLK1)					Prepared: 08/03/2021 Analyzed: 08/03/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	119		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H0319 - EPA 5030 (soil)

LCS (B1H0319-BS1)

Prepared: 08/03/2021 Analyzed: 08/03/2021

1,2,4-Trimethylbenzene	0.0547	0.00200	mg/kg	0.0500		109	70-130			
Naphthalene	0.0556	0.0100	"	0.0500		111	70-130			
1,3,5-Trimethylbenzene	0.0527	0.00200	"	0.0500		105	70-130			
Benzene	0.0543	0.00200	"	0.0500		109	70-130			
Ethylbenzene	0.0486	0.00200	"	0.0500		97.2	70-130			
m,p-Xylene	0.103	0.00400	"	0.100		103	70-130			
o-Xylene	0.0524	0.00200	"	0.0500		105	70-130			
Toluene	0.0510	0.00200	"	0.0500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H0319 - EPA 5030 (soil)

Matrix Spike (B1H0319-MS1)		Source: Y108043-01			Prepared: 08/03/2021 Analyzed: 08/03/2021					
1,2,4-Trimethylbenzene	0.0552	0.00200	mg/kg	0.0500	ND	110	70-130			
Naphthalene	0.0384	0.0100	"	0.0500	0.00112	74.6	70-130			
1,3,5-Trimethylbenzene	0.0459	0.00200	"	0.0500	ND	91.8	70-130			
Benzene	0.0601	0.00200	"	0.0500	ND	120	70-130			
Ethylbenzene	0.0453	0.00200	"	0.0500	ND	90.5	70-130			
m,p-Xylene	0.102	0.00400	"	0.100	ND	102	70-130			
o-Xylene	0.0533	0.00200	"	0.0500	ND	107	70-130			
Toluene	0.0619	0.00200	"	0.0500	ND	124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H0319 - EPA 5030 (soil)										
Matrix Spike Dup (B1H0319-MSD1)			Source: Y108043-01		Prepared: 08/03/2021 Analyzed: 08/03/2021					
1,2,4-Trimethylbenzene	0.0552	0.00200	mg/kg	0.0500	ND	110	70-130	0.109	20	
Naphthalene	0.0506	0.0100	"	0.0500	0.00112	98.9	70-130	27.4	20	QM-07
1,3,5-Trimethylbenzene	0.0538	0.00200	"	0.0500	ND	108	70-130	15.8	20	
Benzene	0.0542	0.00200	"	0.0500	ND	108	70-130	10.4	20	
Ethylbenzene	0.0493	0.00200	"	0.0500	ND	98.6	70-130	8.50	20	
m,p-Xylene	0.105	0.00400	"	0.100	ND	105	70-130	2.62	20	
o-Xylene	0.0535	0.00200	"	0.0500	ND	107	70-130	0.225	20	
Toluene	0.0507	0.00200	"	0.0500	ND	101	70-130	20.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569794 - 3550B

MSD (L 92196-MSD-L569794)			Source: 92196			Prepared: 08/18/2021 Analyzed: 08/18/2021				
1-Methylnaphthalene	0.101	0.00048	mg/Kg	0.166	<0.000480	60.8	30-130	0.9	30	
2-Methylnaphthalene	0.0992	0.000542	"	0.166	<0.000542	59.7	30-130	0.3	30	
Naphthalene	0.0971	0.000467	"	0.166	<0.000467	58.4	30-130	0.5	30	
Surrogate: 2-Fluorobiphenyl	65.6		"	0.332	208	65.6	33-115			
Surrogate: 4-Terphenyl-d14	67.1		"	0.332	207	67.1	33-122			
Surrogate: Nitrobenzene-d5	54.5		"	0.332	169	54.5	29-110			
MS (L 92196-MS-L569794)			Source: 92196			Prepared: 08/18/2021 Analyzed: 08/18/2021				
2-Methylnaphthalene	0.0989	0.000542	mg/Kg	0.167	<0.000542	59.2	30-130			
1-Methylnaphthalene	0.102	0.00048	"	0.167	<0.000480	61	30-130			
Naphthalene	0.0976	0.000467	"	0.167	<0.000467	58.4	30-130			
Surrogate: Nitrobenzene-d5	54.6		"	0.333	169	54.6	29-110			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333	207	64.8	33-122			
Surrogate: 2-Fluorobiphenyl	65.1		"	0.333	208	65.1	33-115			
LCS (LCS-L569794)			Prepared: 08/18/2021 Analyzed: 08/18/2021							
1-Methylnaphthalene	0.105	0.00048	mg/Kg	0.167		62.8	30-130			
Naphthalene	0.1	0.000467	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.102	0.000542	"	0.167		61	30-130			
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	71.1		"	0.333		71.1	33-115			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569794 - 3550B

LRB (LRB-L569794)

Prepared: 08/18/2021 Analyzed: 08/18/2021

Naphthalene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	65.4		"	0.333	65.4		33-122			
Surrogate: Nitrobenzene-d5	56.1		"	0.333	56.1		29-110			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333	65.4		33-115			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L569811 - 3050B										
MSD (L 92295-MSD-L569811)			Source: 92295		Prepared: 08/18/2021 Analyzed: 08/22/2021					
Barium	75.1	0.042	mg/Kg	4.84	73.4	35	75-125	1.7	80	*
Selenium	3.92	0.103	"	4.84	0.277	75	75-125	4	80	
MS (L 92295-MS-L569811)			Source: 92295		Prepared: 08/18/2021 Analyzed: 08/22/2021					
Selenium	4.08	0.103	mg/Kg	4.8	0.277	79	75-125			
Barium	76.4	0.042	"	4.8	73.4	63	75-125			*
LCS (LCS-L569811)			Prepared: 08/18/2021 Analyzed: 08/22/2021							
Selenium	5.07	0.103	mg/Kg	5		101	80-120			
Barium	5.3	0.042	"	5		106	80-120			
LRB (LRB-L569811)			Prepared: 08/18/2021 Analyzed: 08/22/2021							
Selenium	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.



September 10, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. August 17, 2021. This project is associated with Origins project number Y108376-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N04@4'	Y108376-01	Soil	August 17, 2021 14:00	08/17/2021 17:35
N05@4'	Y108376-02	Soil	August 17, 2021 14:02	08/17/2021 17:35
S06@4'	Y108376-03	Soil	August 17, 2021 14:04	08/17/2021 17:35
W06@4'	Y108376-04	Soil	August 17, 2021 14:06	08/17/2021 17:35
W07@4'	Y108376-05	Soil	August 17, 2021 14:08	08/17/2021 17:35
B12@11'	Y108376-06	Soil	August 17, 2021 14:10	08/17/2021 17:35
B13@11'	Y108376-07	Soil	August 17, 2021 14:12	08/17/2021 17:35
B14@11'	Y108376-08	Soil	August 17, 2021 14:14	08/17/2021 17:35

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.

Jordan A. Merrill For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4108376

Client: WSP USA

Client Project ID: Olsen 2-2

Checklist Completed by: JM

Date/time completed: 8/17/21

Shipped Via: 1-D

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

Matrix(s) Received: (Check all that apply) ☒ Soil/Solid

Water

Other

Cooler Number/Temperature: 1, 20.2 °C

(Describe)

Thermometer ID: T003

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"/>			<u>Rush</u>
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 HT's due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager): JM

Date/Time Reviewed: 8/17/21

Origins Laboratory, Inc.

Jordan A. Merrill

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N04@4'

8/17/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1726	08/17/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.8 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H1732	08/17/2021	08/17/2021	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N05@4'

8/17/2021 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1H1726	08/17/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H1721	08/17/2021	08/17/2021	U
Gasoline Range Hydrocarbons	1.29	0.200	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

S06@4'

8/17/2021 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-03 (Soil)

Metals by Saturated Paste

Calcium	ND		0.0499	meq/L	1	[CALC]	08/19/2021	08/19/2021	
Magnesium	0.0905		0.0823	"	"	"	"	08/19/2021	
Sodium	1.69		0.0435	"	"	"	"	"	

SAR by 20B Saturated Paste

SAR	6.66			SAR	"	B1H1915	"	08/19/2021	
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Total Metals by 6020B

Arsenic	0.507	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	62.9	0.042	0.25	"	"	"	"	"	
Selenium	0.385	0.103	0.25	"	"	"	"	"	

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

W06@4'

8/17/2021 2:06:00PM

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

Y108376-04 (Soil)

Total Metals by 6020B

Arsenic	0.413	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	8.5	0.042	0.25	"	"	"	"	"	
Selenium	0.155	0.103	0.25	"	"	"	"	"	J

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W07@4'

8/17/2021 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-05 (Soil)

Metals by Saturated Paste

Calcium	0.596		0.0499	meq/L	1	[CALC]	08/19/2021	08/19/2021	
Magnesium	0.452		0.0823	"	"	"	"	"	
Sodium	10.4		0.0435	"	"	"	"	"	

SAR by 20B Saturated Paste

SAR	14.4			SAR	"	B1H1915	"	"	
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Total Metals by 6020B

Arsenic	0.824	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	113	0.042	0.25	"	"	"	"	"	
Lead	8.53	0.031	0.25	"	"	"	"	"	
Selenium	0.473	0.103	0.25	"	"	"	"	"	

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B12@11'

8/17/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-06 (Soil)

Metals by Saturated Paste

Calcium	1.45		0.0499	meq/L	1	[CALC]	08/19/2021	08/19/2021	
Magnesium	0.690		0.0823	"	"	"	"	"	
Sodium	3.17		0.0435	"	"	"	"	"	

SAR by 20B Saturated Paste

SAR	3.07			SAR	"	B1H1915	"	"	
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Total Metals by 6020B

Arsenic	0.501	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	23.4	0.042	0.25	"	"	"	"	"	
Lead	2.88	0.031	0.25	"	"	"	"	"	
Selenium	0.159	0.103	0.25	"	"	"	"	"	J

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B13@11'

8/17/2021 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-07 (Soil)

Metals by Saturated Paste

Calcium	1.09		0.0499	meq/L	1	[CALC]	08/19/2021	08/19/2021	
Magnesium	0.530		0.0823	"	"	"	"	"	
Sodium	1.88		0.0435	"	"	"	"	"	

SAR by 20B Saturated Paste

SAR	2.09			SAR	"	B1H1915	"	"	
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Total Metals by 6020B

Arsenic	0.83	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	37.6	0.042	0.25	"	"	"	"	"	
Selenium	0.942	0.103	0.25	"	"	"	"	"	

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B14@11'

8/17/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108376-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1H1726	08/17/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H1721	08/17/2021	08/17/2021	U
Gasoline Range Hydrocarbons	1.17	0.200	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1721 - EPA 5030 (soil)										
Blank (B1H1721-BLK1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1721 - EPA 5030 (soil)										
LCS (B1H1721-BS1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0469	0.00200	mg/kg	0.0500		93.8	70-130			
Naphthalene	0.0417	0.0100	"	0.0500		83.3	70-130			
1,3,5-Trimethylbenzene	0.0465	0.00200	"	0.0500		93.1	70-130			
Benzene	0.0431	0.00200	"	0.0500		86.2	70-130			
Ethylbenzene	0.0443	0.00200	"	0.0500		88.6	70-130			
m,p-Xylene	0.0932	0.00400	"	0.100		93.2	70-130			
o-Xylene	0.0452	0.00200	"	0.0500		90.4	70-130			
Toluene	0.0457	0.00200	"	0.0500		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1721 - EPA 5030 (soil)

Matrix Spike (B1H1721-MS1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0508	0.00200	mg/kg	0.0500	ND	102	70-130			
Naphthalene	0.0403	0.0100	"	0.0500	ND	80.6	70-130			
1,3,5-Trimethylbenzene	0.0503	0.00200	"	0.0500	ND	101	70-130			
Benzene	0.0495	0.00200	"	0.0500	ND	99.1	70-130			
Ethylbenzene	0.0493	0.00200	"	0.0500	ND	98.6	70-130			
m,p-Xylene	0.104	0.00400	"	0.100	ND	104	70-130			
o-Xylene	0.0505	0.00200	"	0.0500	ND	101	70-130			
Toluene	0.0518	0.00200	"	0.0500	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1721 - EPA 5030 (soil)										
Matrix Spike Dup (B1H1721-MSD1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0457	0.00200	mg/kg	0.0500	ND	91.3	70-130	10.7	20	
Naphthalene	0.0373	0.0100	"	0.0500	ND	74.7	70-130	7.67	20	
1,3,5-Trimethylbenzene	0.0451	0.00200	"	0.0500	ND	90.3	70-130	10.9	20	
Benzene	0.0435	0.00200	"	0.0500	ND	86.9	70-130	13.1	20	
Ethylbenzene	0.0435	0.00200	"	0.0500	ND	86.9	70-130	12.6	20	
m,p-Xylene	0.0920	0.00400	"	0.100	ND	92.0	70-130	12.3	20	
o-Xylene	0.0442	0.00200	"	0.0500	ND	88.4	70-130	13.4	20	
Toluene	0.0460	0.00200	"	0.0500	ND	92.1	70-130	11.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H1726 - EPA 3550B										
Blank (B1H1726-BLK1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		93.2	50-150			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1726 - EPA 3550B

LCS (B1H1726-BS1)

Prepared: 08/17/2021 Analyzed: 08/17/2021

Diesel (C10-C28)	799	50.0	mg/kg	1000		79.9	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.7	50-150			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1726 - EPA 3550B

Matrix Spike (B1H1726-MS1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
Diesel (C10-C28)	796	50.0	mg/kg	1000	ND	79.6	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.2	50-150			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1726 - EPA 3550B										
Matrix Spike Dup (B1H1726-MSD1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130	7.81	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	14.3	35	
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1732 - EPA 5030 (soil)										
Blank (B1H1732-BLK1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1732 - EPA 5030 (soil)										
LCS (B1H1732-BS1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130			
Naphthalene	0.0448	0.0100	"	0.0500		89.6	70-130			
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500		92.7	70-130			
Benzene	0.0443	0.00200	"	0.0500		88.5	70-130			
Ethylbenzene	0.0447	0.00200	"	0.0500		89.3	70-130			
m,p-Xylene	0.0942	0.00400	"	0.100		94.2	70-130			
o-Xylene	0.0458	0.00200	"	0.0500		91.6	70-130			
Toluene	0.0473	0.00200	"	0.0500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1732 - EPA 5030 (soil)										
Matrix Spike (B1H1732-MS1)		Source: Y108376-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0572	0.00200	mg/kg	0.0500	ND	114	70-130			
Naphthalene	0.0501	0.0100	"	0.0500	ND	100	70-130			
1,3,5-Trimethylbenzene	0.0570	0.00200	"	0.0500	ND	114	70-130			
Benzene	0.0598	0.00200	"	0.0500	ND	120	70-130			
Ethylbenzene	0.0574	0.00200	"	0.0500	ND	115	70-130			
m,p-Xylene	0.119	0.00400	"	0.100	ND	119	70-130			
o-Xylene	0.0590	0.00200	"	0.0500	ND	118	70-130			
Toluene	0.0612	0.00200	"	0.0500	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H1732 - EPA 5030 (soil)										
Matrix Spike Dup (B1H1732-MSD1)	Source: Y108376-01				Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0590	0.00200	mg/kg	0.0500	ND	118	70-130	3.10	20	
Naphthalene	0.0562	0.0100	"	0.0500	ND	112	70-130	11.5	20	
1,3,5-Trimethylbenzene	0.0587	0.00200	"	0.0500	ND	117	70-130	2.90	20	
Benzene	0.0573	0.00200	"	0.0500	ND	115	70-130	4.34	20	
Ethylbenzene	0.0572	0.00200	"	0.0500	ND	114	70-130	0.244	20	
m,p-Xylene	0.120	0.00400	"	0.100	ND	120	70-130	1.07	20	
o-Xylene	0.0584	0.00200	"	0.0500	ND	117	70-130	1.16	20	
Toluene	0.0597	0.00200	"	0.0500	ND	119	70-130	2.61	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570028 - 3050B

MSD (L 93187-MSD-L570028)		Source: Y108376-07			Prepared: 08/19/2021 Analyzed: 08/22/2021					
Arsenic	2.87	0.0855	mg/Kg	2.49	0.83	82	75-125	15.3	80	
Selenium	4.4	0.103	"	4.98	0.942	69	75-125	2	80	*
Lead	5.75	0.031	"	2.49	5.9	NR	75-125	37.3	80	*
Barium	18.6	0.042	"	4.98	37.6	NR	75-125	23.4	80	*
MS (L 93187-MS-L570028)		Source: Y108376-07			Prepared: 08/19/2021 Analyzed: 08/22/2021					
Selenium	4.31	0.103	mg/Kg	4.81	0.942	70	75-125			*
Lead	3.94	0.031	"	2.41	5.9	NR	75-125			*
Barium	14.7	0.042	"	4.81	37.6	NR	75-125			*
Arsenic	2.46	0.0855	"	2.41	0.83	68	75-125			*
LCS (LCS-L570028)		Prepared: 08/19/2021 Analyzed: 08/22/2021								
Selenium	4.99	0.103	mg/Kg	5		100	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			
Barium	5.41	0.042	"	5		108	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
LRB (LRB-L570028)		Prepared: 08/19/2021 Analyzed: 08/22/2021								
Arsenic	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Barium	0.0456	0.25	"				-			J
Lead	ND	0.25	"				-			

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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.

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.

August 25, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2/Clack 1-2A OSA Facility **Project Number - 31403177.101**

Attached are your analytical results for KMG - Olsen 2-2/Clack 1-2A OSA Facility received by Origins Laboratory, Inc. August 18, 2021. This project is associated with Origins project number Y108403-01.

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



WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B15@11'	Y108403-01	Soil	August 18, 2021 14:35	08/18/2021 17:20
B16@11'	Y108403-02	Soil	August 18, 2021 14:45	08/18/2021 17:20
N06@6'	Y108403-03	Soil	August 18, 2021 15:15	08/18/2021 17:20
N07@6'	Y108403-04	Soil	August 18, 2021 15:23	08/18/2021 17:20
E04@6'	Y108403-05	Soil	August 18, 2021 14:55	08/18/2021 17:20

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4108403

page 1 of 1

Client: WSP USA
Address: 4600 W 60th Pl
Arvada, CO 80003
Telephone Number: 303 433 9788
Email Address: KMG Group

Project Manager: Brian Sulzberger
Project Name: Olsen 2-2 / Clack 1-2A OSA Facility
Project Number: 31403177.101
Samples Collected By: Daniel Thomas

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface	Other	GC/MS		GC/MS	
B15 E11	8-18-21	1435	1	✓				✓				X	GC/MS	GC/MS	1 Gw Protection
B16 E11		1445	1	✓				✓				X	GC/MS	GC/MS	2
N06 E6		1515	2	✓				✓				X	GC/MS	GC/MS	3
N07 E6		1523	2	✓				✓				X	GC/MS	GC/MS	4
E04 E6		1455	1	✓				✓				X	GC/MS	GC/MS	5
															6
															7
															8
															9
															10
Relinquished By: <i>[Signature]</i>	Date: 8-18-2021	Time: 1720	Time: 1720	Received By: <i>[Signature]</i>	Date: 8-18-21	Time: 1720	Time: 1720	Received By: <i>[Signature]</i>	Date: 8-18-21	Time: 1720	Time: 1720	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

Temp Received- 21.3

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108403

Client: WSP

Client Project ID: Olsen 2-2/Clack

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 8/18/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 21.3 °C

Thermometer ID: T003

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"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 8/18/12

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

B15@11'

8/18/2021 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1830	08/18/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.8 %	50-150	"	"	"
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GBTEX+TMBs

Benzene	0.00604	0.00200	mg/kg	1	B1H1816	"	08/19/2021
Gasoline Range Hydrocarbons	32.5	5.00	"	25	"	"	08/18/2021

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	08/19/2021
Surrogate: Toluene-d8	113 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	261 %	70-130	"	"	"

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

B16@11'

8/18/2021 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	261		25.0	mg/kg	1	B1H1830	08/18/2021	08/18/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102 %	50-150	"	"	"
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GBTEX+TMBs

Gasoline Range Hydrocarbons	0.765	0.200	mg/kg	1	B1H1816	"	08/18/2021
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Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130	"	"	"
Surrogate: Toluene-d8	110 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N06@6'

8/18/2021 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-03 (Soil)

Boron (DTPA Sorbitol)

Boron	3.80	2.00	mg/L	10	B1H1903	08/19/2021	08/20/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1830	08/18/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.9 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H1816	"	08/19/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00626	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	39.5	5.00	"	25	"	"	08/18/2021	
Xylenes, total	ND	0.00200	"	1	"	"	08/19/2021	U

Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	111 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N06@6'

8/18/2021 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-03 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	107 %	70-130	B1H18 16	08/18/2021	08/19/2021
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Metals by Saturated Paste

Calcium	2.65	0.0499	meq/L	1	[CALC]	08/20/2021	08/20/2021
Magnesium	1.27	0.0823	"	"	"	"	"
Sodium	3.47	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.102	0.00048	0.00067	mg/Kg	1	L570209	08/20/2021	08/23/2021	
2-Methylnaphthalene	0.26	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.0154	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000904	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000438	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000447	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.002	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.0242	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000403	0.000344	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N06@6'

8/18/2021 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108403-03 (Soil)

PAH by 8270D SIM

Naphthalene	0.00622	0.000467	0.00067	mg/Kg	1	L570209	08/20/2021	08/23/2021	
Pyrene	0.00188	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.69			pH Units	1	B1H2002	08/20/2021	08/20/2021	
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SAR by 20B Saturated Paste

SAR	2.48			SAR	1	B1H2006	08/20/2021	08/20/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.696		0.00500	mmhos/cm	1	B1H2004	08/20/2021	08/20/2021	
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Total Metals by 6020B

Arsenic	1.2	0.0855	0.25	mg/Kg	5	L570241	08/20/2021	08/24/2021	
Barium	130	0.042	0.25	"	"	"	"	"	
Cadmium	0.182	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N06@6'

8/18/2021 3:15:00PM

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

Y108403-03 (Soil)

Total Metals by 6020B

Copper	13.3	0.0806	0.25	mg/Kg	5	L570241	08/20/2021	08/24/2021	
Lead	12.1	0.031	0.25	"	"	"	"	"	
Nickel	9.53	0.0633	0.25	"	"	"	"	"	
Selenium	0.506	0.103	0.25	"	"	"	"	"	
Silver	0.0864	0.0067	0.25	"	"	"	"	"	J
Zinc	67.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L570341	08/18/2021	08/23/2021	
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N07@6'

8/18/2021 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-04 (Soil)

Boron (DTPA Sorbitol)

Boron	5.80	2.00	mg/L	10	B1H1903	08/19/2021	08/20/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	157	25.0	mg/kg	1	B1H1830	08/18/2021	08/18/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0157	0.00200	mg/kg	1	B1H1816	"	08/19/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	22.0	5.00	"	25	"	"	08/18/2021	
Xylenes, total	ND	0.00200	"	1	"	"	08/19/2021	U

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	112 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N07@6'

8/18/2021 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-04 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	110 %	70-130	B1H18 16	08/18/2021	08/19/2021
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Metals by Saturated Paste

Calcium	2.60	0.0499	meq/L	1	[CALC]	08/20/2021	08/20/2021
Magnesium	1.17	0.0823	"	"	"	"	"
Sodium	4.34	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.301	0.0048	0.0067	mg/Kg	10	L570209	08/20/2021	08/23/2021	
2-Methylnaphthalene	0.729	0.00542	0.0067	"	"	"	"	"	
Acenaphthene	0.0447	0.00431	0.0067	"	"	"	"	"	
Anthracene	ND	0.00426	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00441	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00133	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00138	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00486	0.0067	"	"	"	"	"	
Chrysene	0.00564	0.00256	0.0067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.00279	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00529	0.0067	"	"	"	"	"	
Fluorene	0.0733	0.00501	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00344	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N07@6'

8/18/2021 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108403-04 (Soil)

PAH by 8270D SIM

Naphthalene	0.0567	0.00467	0.0067	mg/Kg	10	L570209	08/20/2021	08/23/2021	
Pyrene	0.00543	0.00387	0.0067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	74.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	78 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	69.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.65			pH Units	1	B1H2002	08/20/2021	08/20/2021	
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SAR by 20B Saturated Paste

SAR	3.16			SAR	1	B1H2006	08/20/2021	08/20/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.782		0.00500	mmhos/cm	1	B1H2004	08/20/2021	08/20/2021	
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Total Metals by 6020B

Arsenic	1.22	0.0855	0.25	mg/Kg	5	L570241	08/20/2021	08/24/2021	
Barium	106	0.042	0.25	"	"	"	"	"	
Cadmium	0.176	0.0259	0.25	"	"	"	"	"	J

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

N07@6'

8/18/2021 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108403-04 (Soil)

Total Metals by 6020B

Copper	12.1	0.0806	0.25	mg/Kg	5	L570241	08/20/2021	08/24/2021	
Lead	11.8	0.031	0.25	"	"	"	"	"	
Nickel	8.36	0.0633	0.25	"	"	"	"	"	
Selenium	0.49	0.103	0.25	"	"	"	"	"	
Silver	0.102	0.0067	0.25	"	"	"	"	"	J
Zinc	56.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.47	5.06	mg/Kg	10	L570341	08/18/2021	08/23/2021	
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WSP USA
4600 W. 60th Ave.
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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

E04@6'

8/18/2021 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108403-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	49.4		25.0	mg/kg	1	B1H1830	08/18/2021	08/18/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	100 %		50-150			"	"	"	
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GBTEX+TMBs

Benzene	0.00520		0.00200	mg/kg	1	B1H1816	"	08/19/2021	
Gasoline Range Hydrocarbons	32.5		5.00	"	25	"	"	08/18/2021	

Surrogate: 1,2-Dichloroethane-d4	87.7 %		70-130			"	"	08/19/2021	
Surrogate: Toluene-d8	111 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1816 - EPA 5030 (soil)										
Blank (B1H1816-BLK1)					Prepared: 08/18/2021 Analyzed: 08/18/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.9		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	111		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.3		70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1816 - EPA 5030 (soil)										
LCS (B1H1816-BS1)					Prepared: 08/18/2021 Analyzed: 08/18/2021					
1,2,4-Trimethylbenzene	0.0574	0.00200	mg/kg	0.0500		115	70-130			
Naphthalene	0.0553	0.0100	"	0.0500		111	70-130			
1,3,5-Trimethylbenzene	0.0564	0.00200	"	0.0500		113	70-130			
Benzene	0.0430	0.00200	"	0.0500		86.0	70-130			
Ethylbenzene	0.0543	0.00200	"	0.0500		109	70-130			
m,p-Xylene	0.114	0.00400	"	0.100		114	70-130			
o-Xylene	0.0552	0.00200	"	0.0500		110	70-130			
Toluene	0.0543	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.3	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1816 - EPA 5030 (soil)

Matrix Spike (B1H1816-MS1)		Source: Y108399-03			Prepared: 08/18/2021 Analyzed: 08/19/2021					
1,2,4-Trimethylbenzene	0.0619	0.00200	mg/kg	0.0500	0.00152	121	70-130			
Naphthalene	0.0661	0.0100	"	0.0500	0.00262	127	70-130			
1,3,5-Trimethylbenzene	0.0586	0.00200	"	0.0500	0.000720	116	70-130			
Benzene	0.0492	0.00200	"	0.0500	0.00270	93.0	70-130			
Ethylbenzene	0.0571	0.00200	"	0.0500	ND	114	70-130			
m,p-Xylene	0.122	0.00400	"	0.100	0.00368	118	70-130			
o-Xylene	0.0597	0.00200	"	0.0500	0.000920	118	70-130			
Toluene	0.0616	0.00200	"	0.0500	0.00618	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1816 - EPA 5030 (soil)

Matrix Spike Dup (B1H1816-MSD1)		Source: Y108399-03			Prepared: 08/18/2021 Analyzed: 08/19/2021					
1,2,4-Trimethylbenzene	0.0568	0.00200	mg/kg	0.0500	0.00152	110	70-130	8.60	20	
Naphthalene	0.0621	0.0100	"	0.0500	0.00262	119	70-130	6.18	20	
1,3,5-Trimethylbenzene	0.0549	0.00200	"	0.0500	0.000720	108	70-130	6.45	20	
Benzene	0.0468	0.00200	"	0.0500	0.00270	88.1	70-130	5.13	20	
Ethylbenzene	0.0536	0.00200	"	0.0500	ND	107	70-130	6.43	20	
m,p-Xylene	0.115	0.00400	"	0.100	0.00368	111	70-130	6.06	20	
o-Xylene	0.0562	0.00200	"	0.0500	0.000920	111	70-130	5.94	20	
Toluene	0.0580	0.00200	"	0.0500	0.00618	104	70-130	6.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1830 - EPA 3550B										
Blank (B1H1830-BLK1)					Prepared: 08/18/2021 Analyzed: 08/18/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		92.5	50-150			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1830 - EPA 3550B

LCS (B1H1830-BS1)

Prepared: 08/18/2021 Analyzed: 08/18/2021

Diesel (C10-C28)	804	50.0	mg/kg	1000		80.4	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.9	50-150			

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1830 - EPA 3550B

Matrix Spike (B1H1830-MS1)		Source: Y108399-03			Prepared: 08/18/2021 Analyzed: 08/18/2021					
Diesel (C10-C28)	940	50.0	mg/kg	1000	ND	94.0	70-130			
Residual Range Organics (C28-C40)	1390	200	"	1000	46.7	134	70-130			QM-07
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1H1830 - EPA 3550B										
Matrix Spike Dup (B1H1830-MSD1)		Source: Y108399-03			Prepared: 08/18/2021 Analyzed: 08/18/2021					
Diesel (C10-C28)	899	50.0	mg/kg	1000	ND	89.9	70-130	4.54	35	
Residual Range Organics (C28-C40)	1180	200	"	1000	46.7	114	70-130	16.0	35	
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA 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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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2002 - NO PREP

Duplicate (B1H2002-DUP1)

Source: Y108402-01

Prepared: 08/20/2021 Analyzed: 08/20/2021

pH	8.58		pH Units	8.58		0.00	25
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Batch B1H2004 - NO PREP

Blank (B1H2004-BLK1)

Prepared: 08/20/2021 Analyzed: 08/20/2021

Specific Conductance (EC)	0.00180	0.00500	mmhos/cm
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Duplicate (B1H2004-DUP1)

Source: Y108402-01

Prepared: 08/20/2021 Analyzed: 08/20/2021

Specific Conductance (EC)	2.48	0.00500	mmhos/cm	2.48		0.101	25
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570209 - 3550B

MSD (L 92114-MSD-L570209)		Source: 92114			Prepared: 08/20/2021 Analyzed: 08/23/2021					
Acenaphthene	0.11	0.000431	mg/Kg dry	0.163	<0.000431	67.4	30-130	6.1	30	
Dibenz(a,h)anthracene	0.0885	0.000279	"	0.163	<0.000279	54.2	30-130	4.3	30	
Pyrene	0.126	0.000387	"	0.163	<0.000387	77.3	30-130	0	30	
Naphthalene	0.0975	0.000467	"	0.163	0.00135	58.9	30-130	9.2	30	
Indeno(1,2,3-cd)pyrene	0.0867	0.000344	"	0.163	<0.000344	53.1	30-130	1.5	30	
Fluorene	0.112	0.000501	"	0.163	<0.000501	68.7	30-130	7.7	30	
Fluoranthene	0.127	0.000529	"	0.163	<0.000529	77.9	30-130	1.5	30	
1-Methylnaphthalene	0.103	0.00048	"	0.163	0.000919	62.6	30-130	9.2	30	
Benzo(k)fluoranthene	0.123	0.000486	"	0.163	<0.000486	75.4	30-130	0.8	30	
Benzo(b)fluoranthene	0.105	0.000138	"	0.163	<0.000138	64.4	30-130	0	30	
Benzo(a)pyrene	0.12	0.000133	"	0.163	<0.000133	73.6	30-130	1.6	30	
Anthracene	0.124	0.000426	"	0.163	<0.000426	76	30-130	4.7	30	
2-Methylnaphthalene	0.102	0.000542	"	0.163	0.00277	60.8	30-130	9.3	30	
Chrysene	0.129	0.000256	"	0.163	<0.000256	79.1	30-130	3	30	
Benzo(a)anthracene	0.137	0.000441	"	0.163	<0.000441	84	30-130	1.4	30	
Surrogate: Nitrobenzene-d5	59.5		"	0.326	182	59.5	29-110			
Surrogate: 4-Terphenyl-d14	78.2		"	0.326	233	78.2	33-122			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.326	211	68.4	33-115			

MS (L 92114-MS-L570209)		Source: 92114			Prepared: 08/20/2021 Analyzed: 08/23/2021					
Benzo(b)fluoranthene	0.105	0.000138	mg/Kg dry	0.164	<0.000138	64	30-130			
Benzo(a)pyrene	0.122	0.000133	"	0.164	<0.000133	74.3	30-130			
Benzo(a)anthracene	0.139	0.000441	"	0.164	<0.000441	84.7	30-130			
Anthracene	0.13	0.000426	"	0.164	<0.000426	79.2	30-130			
Acenaphthene	0.117	0.000431	"	0.164	<0.000431	71.3	30-130			
2-Methylnaphthalene	0.112	0.000542	"	0.164	0.00277	66.6	30-130			
1-Methylnaphthalene	0.113	0.00048	"	0.164	0.000919	68.3	30-130			

Origins Laboratory, Inc.

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570209 - 3550B

MS (L 92114-MS-L570209)		Source: 92114			Prepared: 08/20/2021 Analyzed: 08/23/2021					
Fluoranthene	0.125	0.000529	mg/Kg dry	0.164	<0.000529	76.2	30-130			
Pyrene	0.126	0.000387	"	0.164	<0.000387	76.8	30-130			
Dibenz(a,h)anthracene	0.0924	0.000279	"	0.164	<0.000279	56.3	30-130			
Fluorene	0.121	0.000501	"	0.164	<0.000501	73.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0854	0.000344	"	0.164	<0.000344	52	30-130			
Naphthalene	0.107	0.000467	"	0.164	0.00135	64.4	30-130			
Benzo(k)fluoranthene	0.124	0.000486	"	0.164	<0.000486	75.6	30-130			
Chrysene	0.133	0.000256	"	0.164	<0.000256	81	30-130			
Surrogate: 4-Terphenyl-d14	76.5		"	0.328	233	76.5	33-122			
Surrogate: 2-Fluorobiphenyl	68.5		"	0.328	211	68.5	33-115			
Surrogate: Nitrobenzene-d5	59.4		"	0.328	182	59.4	29-110			

LCS (LCS-L570209)		Prepared: 08/20/2021 Analyzed: 08/23/2021								
Benzo(a)pyrene	0.118	0.000133	mg/Kg	0.167		70.6	30-130			
Benzo(a)anthracene	0.134	0.000441	"	0.167		80.2	30-130			
Anthracene	0.126	0.000426	"	0.167		75.4	30-130			
Acenaphthene	0.114	0.000431	"	0.167		68.2	30-130			
Benzo(b)fluoranthene	0.105	0.000138	"	0.167		62.8	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.167		66.4	30-130			
Benzo(k)fluoranthene	0.117	0.000486	"	0.167		70	30-130			
Chrysene	0.129	0.000256	"	0.167		77.2	30-130			
1-Methylnaphthalene	0.111	0.00048	"	0.167		66.4	30-130			
Fluorene	0.118	0.000501	"	0.167		70.6	30-130			
Fluoranthene	0.124	0.000529	"	0.167		74.2	30-130			
Naphthalene	0.105	0.000467	"	0.167		62.8	30-130			
Pyrene	0.121	0.000387	"	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.0891	0.000279	"	0.167		53.3	30-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L570209 - 3550B										
LCS (LCS-L570209)					Prepared: 08/20/2021 Analyzed: 08/23/2021					
Indeno(1,2,3-cd)pyrene	0.0843	0.000344	mg/Kg	0.167		50.4	30-130			
Surrogate: 2-Fluorobiphenyl	80.7		"	0.333		80.7	33-115			
Surrogate: 4-Terphenyl-d14	81.9		"	0.333		81.9	33-122			
Surrogate: Nitrobenzene-d5	64.2		"	0.333		64.2	29-110			
LRB (LRB-L570209)					Prepared: 08/20/2021 Analyzed: 08/23/2021					
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	62.1		"	0.333		62.1	29-110			
Surrogate: 2-Fluorobiphenyl	71.4		"	0.333		71.4	33-115			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333		74.4	33-122			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L570241 - 3050B										
MSD (L 93499-MSD-L570241)			Source: 93499		Prepared: 08/20/2021 Analyzed: 08/24/2021					
Barium	574	0.042	mg/Kg	4.83	159	NR	75-125	107	80	*
Cadmium	0.697	0.0259	"	0.483	0.19	144	75-125	4.8	80	*
Copper	14.4	0.0806	"	2.42	11.9	104	75-125	1.3	80	
Lead	12.7	0.031	"	2.42	10	112	75-125	1.5	80	
Nickel	16	0.0633	"	2.42	13.1	120	75-125	1.8	80	
Selenium	3.58	0.103	"	4.83	0.36	67	75-125	3.1	80	*
Silver	0.514	0.0067	"	0.483	0.0224	106	75-125	4.5	80	
Zinc	69.6	0.534	"	24.2	45.8	99	75-125	0.1	80	
Arsenic	5.21	0.0855	"	2.42	3.43	74	75-125	2.7	80	*
MS (L 93499-MS-L570241)			Source: 93499		Prepared: 08/20/2021 Analyzed: 08/24/2021					
Arsenic	5.07	0.0855	mg/Kg	2.38	3.43	69	75-125			*
Silver	0.491	0.0067	"	0.477	0.0224	103	75-125			
Zinc	69.7	0.534	"	23.8	45.8	100	75-125			
Nickel	16.3	0.0633	"	2.38	13.1	134	75-125			*
Lead	12.5	0.031	"	2.38	10	105	75-125			
Copper	14.6	0.0806	"	2.38	11.9	113	75-125			
Cadmium	0.664	0.0259	"	0.477	0.19	139	75-125			*
Selenium	3.47	0.103	"	4.77	0.36	65	75-125			*
Barium	174	0.042	"	4.77	159	315	75-125			*
LCS (LCS-L570241)			Prepared: 08/20/2021 Analyzed: 08/24/2021							
Selenium	4.42	0.103	mg/Kg	5		88	80-120			
Silver	0.498	0.0067	"	0.5		100	80-120			
Nickel	2.4	0.0633	"	2.5		96	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570241 - 3050B

LCS (LCS-L570241)

Prepared: 08/20/2021 Analyzed: 08/24/2021

Cadmium	0.457	0.0259	mg/Kg	0.5		91	80-120			
Barium	5.29	0.042	"	5		106	80-120			
Arsenic	2.19	0.0855	"	2.5		88	80-120			
Zinc	23	0.534	"	25		92	80-120			

LRB (LRB-L570241)

Prepared: 08/20/2021 Analyzed: 08/24/2021

Zinc	ND	2.5	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.117	0.25	"				-			J
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L570341 -										
DUP (L 93469-DUP)		Source: 93469			Prepared: Analyzed: 08/23/2021					
Chromium, Hexavalent	ND	0.492	mg/Kg		<1.01	-		0	20	
MS (L 93469-MS)		Source: 93469			Prepared: Analyzed: 08/23/2021					
Chromium, Hexavalent	5	0.248	mg/Kg	8.17	< 0.488	61	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/23/2021					
Chromium, Hexavalent	6.64	0.244	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 08/23/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

Notes and Definitions

U Sample is Non-Detect.

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

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.

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.

August 30, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. August 23, 2021. This project is associated with Origins project number Y108466-01.

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



WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N08@6'	Y108466-01	Soil	August 23, 2021 13:31	08/23/2021 16:17
W08@6'	Y108466-02	Soil	August 23, 2021 13:46	08/23/2021 16:17
B17@11'	Y108466-03	Soil	August 23, 2021 13:52	08/23/2021 16:17
B18@11'	Y108466-04	Soil	August 23, 2021 14:01	08/23/2021 16:17

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y108466

Client: WSP

Client Project ID: Olsen 2-2

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 8/23/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9.4 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T003

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 checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 8/23/12

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N08@6'

8/23/2021 1:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108466-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1H2401	08/24/2021	08/24/2021	U
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GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B1H2303	08/23/2021	08/23/2021	U
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Surrogate: 1,2-Dichloroethane-d4	80.3 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.33	0.0499	meq/L	1	[CALC]	08/24/2021	08/24/2021
Magnesium	1.03	0.0823	"	"	"	"	"
Sodium	4.68	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L570927	08/25/2021	08/25/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N08@6'

8/23/2021 1:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108466-01 (Soil)

PAH by 8270D SIM

Benzo(a)pyrene	ND	0.000133	0.00067	mg/Kg	1	L570927	08/25/2021	08/25/2021
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	70.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.50	pH Units	1	B1H2403	08/24/2021	08/24/2021
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SAR by 20B Saturated Paste

SAR	3.61	SAR	1	B1H2409	08/24/2021	08/24/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

N08@6'

8/23/2021 1:31:00PM

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

Y108466-01 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.774	0.00500	mmhos/cm	1	B1H2406	08/24/2021	08/24/2021
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Total Metals by 6020B

Arsenic	1.5	0.0855	0.25	mg/Kg	5	L571087	08/26/2021	08/27/2021
Barium	122	0.042	0.25	"	"	"	"	"
Cadmium	0.0934	0.0259	0.25	"	"	"	"	" J
Copper	8.99	0.0806	0.25	"	"	"	"	"
Lead	9.93	0.031	0.25	"	"	"	"	"
Nickel	8.73	0.0633	0.25	"	"	"	"	"
Selenium	0.523	0.103	0.25	"	"	"	"	"
Silver	0.0466	0.0067	0.25	"	"	"	"	" J
Zinc	63.2	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L571070	08/23/2021	08/26/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W08@6'

8/23/2021 1:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108466-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.658	0.199	mg/L	1	B1H2401	08/24/2021	08/24/2021	
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GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B1H2303	08/23/2021	08/23/2021	U
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Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.95	0.0499	meq/L	1	[CALC]	08/24/2021	08/24/2021
Magnesium	1.33	0.0823	"	"	"	"	"
Sodium	4.91	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L570927	08/25/2021	08/25/2021
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"
Anthracene	ND	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W08@6'

8/23/2021 1:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108466-02 (Soil)

PAH by 8270D SIM

Benzo(a)pyrene	ND	0.000665	0.00335	mg/Kg	5	L570927	08/25/2021	08/25/2021	
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	ND	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	0.00287	0.00265	0.00335	"	"	"	"	"	J
Fluorene	ND	0.00251	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	ND	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	87.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	71.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.37	pH Units	1	B1H2403	08/24/2021	08/24/2021
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SAR by 20B Saturated Paste

SAR	3.36	SAR	1	B1H2409	08/24/2021	08/24/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

W08@6'

8/23/2021 1:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108466-02 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.904	0.00500	mmhos/cm	1	B1H2406	08/24/2021	08/24/2021
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Total Metals by 6020B

Arsenic	2.07	0.0855	0.25	mg/Kg	5	L571087	08/26/2021	08/27/2021
Barium	127	0.042	0.25	"	"	"	"	"
Cadmium	0.0921	0.0259	0.25	"	"	"	"	J
Copper	21.5	0.0806	0.25	"	"	"	"	"
Lead	14.1	0.031	0.25	"	"	"	"	"
Nickel	5.74	0.0633	0.25	"	"	"	"	"
Selenium	1.57	0.103	0.25	"	"	"	"	"
Silver	0.113	0.0067	0.25	"	"	"	"	J
Zinc	54.3	0.534	2.5	"	"	"	"	"

Total Metals by 7196 A

Chromium, Hexavalent	ND	2.45	5.02	mg/Kg	10	L571074	08/23/2021	08/26/2021
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

B17@11'

8/23/2021 1:52:00PM

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

Y108466-03 (Soil)

GBTEX+TMBs

Benzene	0.00474	0.00200	mg/kg	1	B1H2303	08/23/2021	08/23/2021
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Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	96.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B18@11'

8/23/2021 2:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108466-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.398		0.199	mg/L	1	B1H2401	08/24/2021	08/24/2021	
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GBTEX+TMBs

Benzene	0.00438		0.00200	mg/kg	1	B1H2303	08/23/2021	08/23/2021	
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Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.82		0.0499	meq/L	1	[CALC]	08/24/2021	08/24/2021	
Magnesium	1.79		0.0823	"	"	"	"	"	
Sodium	4.57		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0231	0.0024	0.00335	mg/Kg	5	L570927	08/25/2021	08/25/2021	
2-Methylnaphthalene	0.042	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	ND	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B18@11'

8/23/2021 2:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108466-04 (Soil)

PAH by 8270D SIM

Benzo(a)pyrene	ND	0.000665	0.00335	mg/Kg	5	L570927	08/25/2021	08/25/2021
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	ND	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"
Fluorene	ND	0.00251	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"
Naphthalene	0.0159	0.00234	0.00335	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	94 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	75.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.39	pH Units	1	B1H2403	08/24/2021	08/24/2021
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SAR by 20B Saturated Paste

SAR	2.73	SAR	1	B1H2409	08/24/2021	08/24/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B18@11'

8/23/2021 2:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108466-04 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.943	0.00500	mmhos/cm	1	B1H2406	08/24/2021	08/24/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L571084	08/23/2021	08/26/2021
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Total Metals by 6020B

Arsenic	3.08	0.0855	0.25	mg/Kg	5	L571087	08/26/2021	08/27/2021
Barium	108	0.042	0.25	"	"	"	"	"
Cadmium	0.156	0.0259	0.25	"	"	"	"	" J
Copper	16.1	0.0806	0.25	"	"	"	"	"
Lead	12	0.031	0.25	"	"	"	"	"
Nickel	14.2	0.0633	0.25	"	"	"	"	"
Selenium	1.38	0.103	0.25	"	"	"	"	"
Silver	0.1	0.0067	0.25	"	"	"	"	" J
Zinc	70.1	0.534	2.5	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2303 - EPA 5030 (soil)										
Blank (B1H2303-BLK1)					Prepared: 08/23/2021 Analyzed: 08/23/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2303 - EPA 5030 (soil)

LCS (B1H2303-BS1)

Prepared: 08/23/2021 Analyzed: 08/23/2021

1,2,4-Trimethylbenzene	0.0558	0.00200	mg/kg	0.0500		112	70-130			
Naphthalene	0.0495	0.0100	"	0.0500		99.0	70-130			
1,3,5-Trimethylbenzene	0.0556	0.00200	"	0.0500		111	70-130			
Benzene	0.0547	0.00200	"	0.0500		109	70-130			
Ethylbenzene	0.0550	0.00200	"	0.0500		110	70-130			
m,p-Xylene	0.114	0.00400	"	0.100		114	70-130			
o-Xylene	0.0564	0.00200	"	0.0500		113	70-130			
Toluene	0.0564	0.00200	"	0.0500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2303 - EPA 5030 (soil)

Matrix Spike (B1H2303-MS1)		Source: Y108279-04			Prepared: 08/23/2021 Analyzed: 08/23/2021					
1,2,4-Trimethylbenzene	0.0448	0.00200	mg/kg	0.0500	0.000780	88.0	70-130			
Naphthalene	0.0435	0.0100	"	0.0500	0.00314	80.7	70-130			
1,3,5-Trimethylbenzene	0.0441	0.00200	"	0.0500	0.000540	87.1	70-130			
Benzene	0.0448	0.00200	"	0.0500	ND	89.7	70-130			
Ethylbenzene	0.0440	0.00200	"	0.0500	ND	88.0	70-130			
m,p-Xylene	0.0912	0.00400	"	0.100	ND	91.2	70-130			
o-Xylene	0.0449	0.00200	"	0.0500	ND	89.9	70-130			
Toluene	0.0436	0.00200	"	0.0500	ND	87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2303 - EPA 5030 (soil)										
Matrix Spike Dup (B1H2303-MSD1)		Source: Y108279-04			Prepared: 08/23/2021 Analyzed: 08/23/2021					
1,2,4-Trimethylbenzene	0.0427	0.00200	mg/kg	0.0500	0.000780	83.8	70-130	4.80	20	
Naphthalene	0.0410	0.0100	"	0.0500	0.00314	75.8	70-130	5.87	20	
1,3,5-Trimethylbenzene	0.0421	0.00200	"	0.0500	0.000540	83.2	70-130	4.55	20	
Benzene	0.0436	0.00200	"	0.0500	ND	87.1	70-130	2.90	20	
Ethylbenzene	0.0426	0.00200	"	0.0500	ND	85.3	70-130	3.18	20	
m,p-Xylene	0.0876	0.00400	"	0.100	ND	87.6	70-130	3.98	20	
o-Xylene	0.0433	0.00200	"	0.0500	ND	86.6	70-130	3.72	20	
Toluene	0.0433	0.00200	"	0.0500	ND	86.7	70-130	0.598	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2401 - Default Prep Metals

Blank (B1H2401-BLK1)

Prepared: 08/24/2021 Analyzed: 08/24/2021

Boron	ND	0.200	mg/L							U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2403 - NO PREP										
Duplicate (B1H2403-DUP1)		Source: Y108444-01			Prepared: 08/24/2021 Analyzed: 08/24/2021					
pH	7.68		pH Units		7.68			0.00	25	
Batch B1H2406 - NO PREP										
Blank (B1H2406-BLK1)		Prepared: 08/24/2021 Analyzed: 08/24/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B1H2406-DUP1)		Source: Y108466-01			Prepared: 08/24/2021 Analyzed: 08/24/2021					
Specific Conductance (EC)	0.626	0.00500	mmhos/cm		0.774			21.1	25	

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570927 - 3550B

MSD (L 95087-MSD-L570927)		Source: 95087			Prepared: 08/25/2021 Analyzed: 08/25/2021					
Chrysene	0.117	0.000256	mg/Kg	0.165	<0.000256	70.9	30-130	8.9	30	
Benzo(k)fluoranthene	0.135	0.000486	"	0.165	<0.000486	81.8	30-130	5	30	
Naphthalene	0.1	0.000467	"	0.165	<0.000467	60.6	30-130	10.4	30	
Indeno(1,2,3-cd)pyrene	0.178	0.000344	"	0.165	<0.000344	108	30-130	10.1	30	
Fluorene	0.117	0.000501	"	0.165	<0.000501	70.9	30-130	9.7	30	
Dibenz(a,h)anthracene	0.178	0.000279	"	0.165	<0.000279	108	30-130	8.6	30	
Pyrene	0.126	0.000387	"	0.165	<0.000387	76.3	30-130	9.8	30	
2-Methylnaphthalene	0.103	0.000542	"	0.165	<0.000542	62.4	30-130	11	30	
Fluoranthene	0.126	0.000529	"	0.165	<0.000529	76.3	30-130	9	30	
Benzo(b)fluoranthene	0.137	0.000138	"	0.165	<0.000138	83	30-130	9	30	
Acenaphthene	0.11	0.000431	"	0.165	<0.000431	66.6	30-130	10.3	30	
Anthracene	0.124	0.000426	"	0.165	<0.000426	75.1	30-130	3.9	30	
Benzo(a)anthracene	0.131	0.000441	"	0.165	<0.000441	79.3	30-130	8.7	30	
Benzo(a)pyrene	0.126	0.000133	"	0.165	<0.000133	76.3	30-130	9	30	
1-Methylnaphthalene	0.104	0.00048	"	0.165	<0.000480	63	30-130	9.1	30	
Surrogate: Nitrobenzene-d5	70.3		"	0.33	214	70.3	29-110			
Surrogate: 2-Fluorobiphenyl	53.6		"	0.33	194	53.6	33-115			
Surrogate: 4-Terphenyl-d14	69.3		"	0.33	253	69.3	33-122			

MS (L 95087-MS-L570927)		Source: 95087			Prepared: 08/25/2021 Analyzed: 08/25/2021					
1-Methylnaphthalene	0.114	0.00048	mg/Kg	0.164	<0.000480	69.5	30-130			
Benzo(a)pyrene	0.138	0.000133	"	0.164	<0.000133	84.1	30-130			
Dibenz(a,h)anthracene	0.194	0.000279	"	0.164	<0.000279	118	30-130			
Fluorene	0.129	0.000501	"	0.164	<0.000501	78.6	30-130			
Benzo(k)fluoranthene	0.142	0.000486	"	0.164	<0.000486	86.5	30-130			
Benzo(b)fluoranthene	0.15	0.000138	"	0.164	<0.000138	91.4	30-130			
Benzo(a)anthracene	0.143	0.000441	"	0.164	<0.000441	87.1	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570927 - 3550B

MS (L 95087-MS-L570927)		Source: 95087			Prepared: 08/25/2021 Analyzed: 08/25/2021					
Anthracene	0.129	0.000426	mg/Kg	0.164	<0.000426	78.6	30-130			
Acenaphthene	0.122	0.000431	"	0.164	<0.000431	74.3	30-130			
Fluoranthene	0.138	0.000529	"	0.164	<0.000529	84.1	30-130			
2-Methylnaphthalene	0.115	0.000542	"	0.164	<0.000542	70.1	30-130			
Indeno(1,2,3-cd)pyrene	0.197	0.000344	"	0.164	<0.000344	120	30-130			
Naphthalene	0.111	0.000467	"	0.164	<0.000467	67.6	30-130			
Pyrene	0.139	0.000387	"	0.164	<0.000387	84.7	30-130			
Chrysene	0.128	0.000256	"	0.164	<0.000256	78	30-130			
Surrogate: 4-Terphenyl-d14	80.2		"	0.329	253	80.2	33-122			
Surrogate: 2-Fluorobiphenyl	62.3		"	0.329	194	62.3	33-115			
Surrogate: Nitrobenzene-d5	74.1		"	0.329	214	74.1	29-110			

LCS (LCS-L570927)		Prepared: 08/25/2021 Analyzed: 08/25/2021								
2-Methylnaphthalene	0.117	0.000542	mg/Kg	0.167		70	30-130			
Acenaphthene	0.125	0.000431	"	0.167		74.8	30-130			
Anthracene	0.138	0.000426	"	0.167		82.6	30-130			
Benzo(a)anthracene	0.139	0.000441	"	0.167		83.2	30-130			
Benzo(a)pyrene	0.138	0.000133	"	0.167		82.6	30-130			
Benzo(b)fluoranthene	0.162	0.000138	"	0.167		97	30-130			
1-Methylnaphthalene	0.117	0.00048	"	0.167		70	30-130			
Chrysene	0.135	0.000256	"	0.167		80.8	30-130			
Dibenz(a,h)anthracene	0.191	0.000279	"	0.167		114	30-130			
Fluoranthene	0.14	0.000529	"	0.167		83.8	30-130			
Indeno(1,2,3-cd)pyrene	0.195	0.000344	"	0.167		117	30-130			
Naphthalene	0.114	0.000467	"	0.167		68.2	30-130			
Pyrene	0.139	0.000387	"	0.167		83.2	30-130			
Benzo(k)fluoranthene	0.14	0.000486	"	0.167		83.8	30-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570927 - 3550B

LCS (LCS-L570927)

Prepared: 08/25/2021 Analyzed: 08/25/2021

Fluorene	0.133	0.000501	mg/Kg	0.167		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	67.5		"	0.333		67.5	33-115			
Surrogate: 4-Terphenyl-d14	87.9		"	0.333		87.9	33-122			
Surrogate: Nitrobenzene-d5	78		"	0.333		78	29-110			

LRB (LRB-L570927)

Prepared: 08/25/2021 Analyzed: 08/25/2021

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333		64.8	33-115			
Surrogate: 4-Terphenyl-d14	80.7		"	0.333		80.7	33-122			
Surrogate: Nitrobenzene-d5	71.4		"	0.333		71.4	29-110			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571084 -

DUP (L 95126-DUP)		Source: Y108466-04			Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	ND	2.53	mg/Kg		<5.18	-		0	20	
MS (L 95126-MS)		Source: Y108466-04			Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	ND	2.44	mg/Kg	7.93	<2.44	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	6.91	0.244	mg/Kg	8		86	75-125			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571087 - 3050B										
MSD (L 95126-MSD-L571087)			Source: Y108466-04			Prepared: 08/26/2021 Analyzed: 08/27/2021				
Copper	17.3	0.0806	mg/Kg	2.34	16.1	51	75-125	1.1	80	*
Zinc	96.9	0.534	"	23.4	70.1	115	75-125	2.7	80	
Cadmium	0.549	0.0259	"	0.467	0.156	117	75-125	1.9	80	
Lead	18.7	0.031	"	2.34	12	287	75-125	2.1	80	*
Nickel	13.4	0.0633	"	2.34	14.2	NR	75-125	49.4	80	*
Selenium	4.49	0.103	"	4.67	1.38	67	75-125	3.2	80	*
Silver	0.522	0.0067	"	0.467	0.1	112	75-125	8.2	80	
Arsenic	4.35	0.0855	"	2.34	3.08	54	75-125	7.5	80	*
Barium	115	0.042	"	4.67	108	150	75-125	11.4	80	*
MS (L 95126-MS-L571087)			Source: Y108466-04			Prepared: 08/26/2021 Analyzed: 08/27/2021				
Silver	0.567	0.0067	mg/Kg	0.491	0.1	116	75-125			
Zinc	94.3	0.534	"	24.5	70.1	99	75-125			
Nickel	7.96	0.0633	"	2.45	14.2	NR	75-125			*
Lead	18.3	0.031	"	2.45	12	257	75-125			*
Copper	17.1	0.0806	"	2.45	16.1	41	75-125			*
Cadmium	0.56	0.0259	"	0.491	0.156	114	75-125			
Arsenic	4.69	0.0855	"	2.45	3.08	66	75-125			*
Selenium	4.64	0.103	"	4.91	1.38	66	75-125			*
Barium	129	0.042	"	4.91	108	428	75-125			*
LCS (LCS-L571087)			Prepared: 08/26/2021 Analyzed: 08/27/2021							
Lead	2.45	0.031	mg/Kg	2.5		98	80-120			
Zinc	24.3	0.534	"	25		97	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			
Nickel	2.53	0.0633	"	2.5		101	80-120			
Copper	2.5	0.0806	"	2.5		100	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571087 - 3050B

LCS (LCS-L571087)

Prepared: 08/26/2021 Analyzed: 08/27/2021

Cadmium	0.487	0.0259	mg/Kg	0.5		97	80-120			
Barium	4.96	0.042	"	5		99	80-120			
Arsenic	2.55	0.0855	"	2.5		102	80-120			
Selenium	5.01	0.103	"	5		100	80-120			

LRB (LRB-L571087)

Prepared: 08/26/2021 Analyzed: 08/27/2021

Zinc	ND	2.5	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.134	0.25	"				-			J
Arsenic	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571074 -										
DUP (L 94284-DUP)		Source: 94284			Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 94284-MS)		Source: 94284			Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	0.482	0.244	mg/Kg	7.82	<0.244	0	75-125			*

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571070 -										
DUP (L 95078-DUP)		Source: 95078			Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 95078-MS)		Source: 95078			Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	6.15	0.245	mg/Kg	8.08	<0.245	76	75-125			
LRB (LRB)					Prepared: Analyzed: 08/26/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President

September 01, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. August 25, 2021. This project is associated with Origins project number Y108520-01.

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



WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N09@6'	Y108520-01	Soil	August 25, 2021 11:50	08/25/2021 17:10
B19@11'	Y108520-02	Soil	August 25, 2021 11:55	08/25/2021 17:10

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y108520

page 1 of 1

Client: WSP
Address: 4600 W 60th Ave
Arvada CO 80003
Project Manager: Brian Sulzberger
Project Name: Olsen 2-2
Project Number: 31403177.101.05
Telephone Number: _____
Email Address: KMG Group
Samples Collected By: RS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summa	Other	1,2,4,7,8	PAHs	PAHs		PAHs
N0906	8-25-21	1156	2	X					X			X	X	X	X	1
B19011	1	1155	2	X					X			X	X	X	X	2
																3
																4
																5
																6
																7
																8
																9
																10

Relinquished By: [Signature] Date: 8-25-21 Time: 1710
Relinquished By: [Signature] Date: 8-25-21 Time: 1710
Received By: [Signature] Date: 8-25-21 Time: 1710
Received By: [Signature] Date: 8-25-21 Time: 1710
Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed

Temp Received: \$8

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108520

Client: WSP

Client Project ID: Olsen 2-2

Checklist Completed by: JM

Shipped Via: HD

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

Date/time completed: 8/25/12

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1 8.8 °C / °C / °C / °C (Describe)

Thermometer ID: T003

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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Save Day</u>
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.

Reviewed by (Project Manager)

8/25/12
Date/Time Reviewed

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N09@6'

8/25/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108520-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1H2602	08/26/2021	08/26/2021
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2509	08/25/2021	08/26/2021	U
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Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	96.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	0.624	0.499	meq/L	10	[CALC]	08/26/2021	08/26/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.06	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571581	08/27/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N09@6'

8/25/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108520-01 (Soil)

PAH by 8270D SIM

Benzo(a)pyrene	ND	0.000133	0.00067	mg/Kg	1	L571581	08/27/2021	08/30/2021
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.61	pH Units	1	B1H2605	08/26/2021	08/26/2021
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SAR by 20B Saturated Paste

SAR	3.12	SAR	1	B1H2611	08/26/2021	08/26/2021
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

N09@6'

8/25/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108520-01 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.338	0.00500	mmhos/cm	1	B1H2608	08/26/2021	08/26/2021
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Total Metals by 6020B

Arsenic	1.59	0.0855	0.25	mg/Kg	5	L571384	08/27/2021	08/30/2021
Barium	72.1	0.042	0.25	"	"	"	"	"
Cadmium	0.101	0.0259	0.25	"	"	"	"	J
Copper	5.37	0.0806	0.25	"	"	"	"	"
Lead	4.99	0.031	0.25	"	"	"	"	"
Nickel	4.46	0.0633	0.25	"	"	"	"	"
Selenium	0.223	0.103	0.25	"	"	"	"	J
Silver	0.0391	0.0067	0.25	"	"	"	"	J
Zinc	32.1	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L571583	08/25/2021	08/30/2021
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B19@11'

8/25/2021 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108520-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1H2701	08/27/2021	08/27/2021	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2509	08/25/2021	08/26/2021	U
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Surrogate: 1,2-Dichloroethane-d4	162 %	70-130			"	"	"	S-04
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.13	0.499	meq/L	10	[CALC]	08/26/2021	08/26/2021
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	2.41	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0193	0.00048	0.00067	mg/Kg	1	L571581	08/27/2021	08/30/2021
2-Methylnaphthalene	0.047	0.000542	0.00067	"	"	"	"	"
Acenaphthene	0.00376	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B19@11'

8/25/2021 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108520-02 (Soil)

PAH by 8270D SIM

Benzo(a)pyrene	0.000704	0.000133	0.00067	mg/Kg	1	L571581	08/27/2021	08/30/2021
Benzo(b)fluoranthene	0.000988	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000791	0.000486	0.00067	"	"	"	"	"
Chrysene	0.0013	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00112	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	0.00695	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00137	0.000344	0.00067	"	"	"	"	"
Naphthalene	0.000956	0.000467	0.00067	"	"	"	"	"
Pyrene	0.000933	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.54	pH Units	1	B1H2605	08/26/2021	08/26/2021
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SAR by 20B Saturated Paste

SAR	1.62	SAR	1	B1H2611	08/26/2021	08/26/2021
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

B19@11'

8/25/2021 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108520-02 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.719	0.00500	mmhos/cm	1	B1H2608	08/26/2021	08/26/2021
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Total Metals by 6020B

Arsenic	0.371	0.0855	0.25	mg/Kg	5	L571384	08/27/2021	08/30/2021
Barium	20.3	0.042	0.25	"	"	"	"	"
Cadmium	0.0263	0.0259	0.25	"	"	"	"	J
Copper	2.62	0.0806	0.25	"	"	"	"	"
Lead	2.52	0.031	0.25	"	"	"	"	"
Nickel	1.92	0.0633	0.25	"	"	"	"	"
Selenium	0.132	0.103	0.25	"	"	"	"	J
Silver	0.0173	0.0067	0.25	"	"	"	"	J
Zinc	12.5	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L571583	08/25/2021	08/30/2021
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2509 - EPA 5030 (soil)										
Blank (B1H2509-BLK1)					Prepared: 08/25/2021 Analyzed: 08/25/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2509 - EPA 5030 (soil)

LCS (B1H2509-BS1)

Prepared: 08/25/2021 Analyzed: 08/25/2021

1,2,4-Trimethylbenzene	0.0562	0.00200	mg/kg	0.0500		112	70-130			
Naphthalene	0.0565	0.0100	"	0.0500		113	70-130			
1,3,5-Trimethylbenzene	0.0547	0.00200	"	0.0500		109	70-130			
Benzene	0.0532	0.00200	"	0.0500		106	70-130			
Ethylbenzene	0.0542	0.00200	"	0.0500		108	70-130			
m,p-Xylene	0.115	0.00400	"	0.100		115	70-130			
o-Xylene	0.0557	0.00200	"	0.0500		111	70-130			
Toluene	0.0552	0.00200	"	0.0500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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WSP USA
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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2509 - EPA 5030 (soil)										
Matrix Spike (B1H2509-MS1)		Source: Y108497-02			Prepared: 08/25/2021 Analyzed: 08/25/2021					
1,2,4-Trimethylbenzene	0.0478	0.00200	mg/kg	0.0400	0.000360	119	70-130			
Naphthalene	0.0432	0.0100	"	0.0400	0.00144	104	70-130			
1,3,5-Trimethylbenzene	0.0483	0.00200	"	0.0400	0.000240	120	70-130			
Benzene	0.0532	0.00200	"	0.0400	ND	133	70-130			QM-07
Ethylbenzene	0.0488	0.00200	"	0.0400	ND	122	70-130			
m,p-Xylene	0.102	0.00400	"	0.0800	ND	128	70-130			
o-Xylene	0.0498	0.00200	"	0.0400	ND	125	70-130			
Toluene	0.0501	0.00200	"	0.0400	ND	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H2509 - EPA 5030 (soil)										
Matrix Spike Dup (B1H2509-MSD1)										
					Source: Y108497-02					
										Prepared: 08/25/2021 Analyzed: 08/25/2021
1,2,4-Trimethylbenzene	0.0320	0.00200	mg/kg	0.0400	0.000360	79.1	70-130	39.7	20	QR-03
Naphthalene	0.0304	0.0100	"	0.0400	0.00144	72.4	70-130	34.8	20	QR-03
1,3,5-Trimethylbenzene	0.0316	0.00200	"	0.0400	0.000240	78.5	70-130	41.7	20	QR-03
Benzene	0.0342	0.00200	"	0.0400	ND	85.5	70-130	43.4	20	QR-03
Ethylbenzene	0.0316	0.00200	"	0.0400	ND	79.0	70-130	42.6	20	QR-03
m,p-Xylene	0.0668	0.00400	"	0.0800	ND	83.5	70-130	41.8	20	QR-03
o-Xylene	0.0328	0.00200	"	0.0400	ND	82.0	70-130	41.1	20	QR-03
Toluene	0.0324	0.00200	"	0.0400	ND	80.9	70-130	43.1	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2605 - NO PREP

Duplicate (B1H2605-DUP1)

Source: Y108518-04

Prepared: 08/26/2021 Analyzed: 08/26/2021

pH	8.40		pH Units	8.25		1.80	25
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Batch B1H2608 - NO PREP

Blank (B1H2608-BLK1)

Prepared: 08/26/2021 Analyzed: 08/26/2021

Specific Conductance (EC)	0.00240	0.00500	mmhos/cm
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Duplicate (B1H2608-DUP1)

Source: Y108518-04

Prepared: 08/26/2021 Analyzed: 08/26/2021

Specific Conductance (EC)	0.277	0.00500	mmhos/cm	0.278		0.325	25
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Origins Laboratory, Inc.



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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571581 - 3550B

MSD (L 96071-MSD-L571581)		Source: 96071			Prepared: 08/27/2021 Analyzed: 08/30/2021					
Benzo(k)fluoranthene	0.12	0.000486	mg/Kg	0.164	96071	73.1	30-130	2.4	30	
Naphthalene	0.103	0.000467	"	0.164	0.000663	62.8	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.0928	0.000344	"	0.164	96071	56.5	30-130	3.6	30	
Dibenz(a,h)anthracene	0.0983	0.000279	"	0.164	96071	59.9	30-130	1.9	30	
Fluoranthene	0.131	0.000529	"	0.164	96071	79.8	30-130	0.7	30	
Chrysene	0.132	0.000256	"	0.164	96071	80.4	30-130	0.7	30	
Pyrene	0.131	0.000387	"	0.164	96071	79.8	30-130	1.5	30	
2-Methylnaphthalene	0.107	0.000542	"	0.164	0.00341	63.1	30-130	0.9	30	
Fluorene	0.119	0.000501	"	0.164	96071	72.5	30-130	0.8	30	
Benzo(b)fluoranthene	0.105	0.000138	"	0.164	96071	64	30-130	3.8	30	
1-Methylnaphthalene	0.109	0.00048	"	0.164	0.00103	65.8	30-130	0.9	30	
Acenaphthene	0.114	0.000431	"	0.164	96071	69.5	30-130	1.7	30	
Anthracene	0.131	0.000426	"	0.164	96071	79.8	30-130	0.7	30	
Benzo(a)anthracene	0.14	0.000441	"	0.164	96071	85.3	30-130	2.1	30	
Benzo(a)pyrene	0.126	0.000133	"	0.164	96071	76.8	30-130	0	30	
Surrogate: Nitrobenzene-d5	57.1		"	0.329	1670	57.1	29-110			
Surrogate: 2-Fluorobiphenyl	67.7		"	0.329	1850	67.7	33-115			
Surrogate: 4-Terphenyl-d14	74.4		"	0.329	2240	74.4	33-122			

MS (L 96071-MS-L571581)		Source: 96071			Prepared: 08/27/2021 Analyzed: 08/30/2021					
Benzo(a)pyrene	0.126	0.000133	mg/Kg	0.163	96071	77.3	30-130			
Fluorene	0.118	0.000501	"	0.163	96071	72.3	30-130			
Chrysene	0.131	0.000256	"	0.163	96071	80.3	30-130			
Benzo(k)fluoranthene	0.123	0.000486	"	0.163	96071	75.4	30-130			
Benzo(b)fluoranthene	0.101	0.000138	"	0.163	96071	61.9	30-130			
Dibenz(a,h)anthracene	0.0964	0.000279	"	0.163	96071	59.1	30-130			
Benzo(a)anthracene	0.137	0.000441	"	0.163	96071	84	30-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571581 - 3550B

MS (L 96071-MS-L571581)		Source: 96071			Prepared: 08/27/2021 Analyzed: 08/30/2021					
Anthracene	0.13	0.000426	mg/Kg	0.163	96071	79.7	30-130			
Acenaphthene	0.112	0.000431	"	0.163	96071	68.7	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.163	0.00341	66.2	30-130			
1-Methylnaphthalene	0.108	0.00048	"	0.163	0.00103	66.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0895	0.000344	"	0.163	96071	54.9	30-130			
Naphthalene	0.104	0.000467	"	0.163	0.000663	63.8	30-130			
Pyrene	0.129	0.000387	"	0.163	96071	79.1	30-130			
Fluoranthene	0.13	0.000529	"	0.163	96071	79.7	30-130			
Surrogate: 2-Fluorobiphenyl	66.8		"	0.326	1850	66.8	33-115			
Surrogate: 4-Terphenyl-d14	76.3		"	0.326	2240	76.3	33-122			
Surrogate: Nitrobenzene-d5	56.7		"	0.326	1670	56.7	29-110			

LCS (LCS-L571581)		Prepared: 08/27/2021 Analyzed: 08/30/2021								
Fluoranthene	0.114	0.000529	mg/Kg	0.167		68.2	30-130			
2-Methylnaphthalene	0.0997	0.000542	"	0.167		59.7	30-130			
Acenaphthene	0.104	0.000431	"	0.167		62.2	30-130			
Benzo(a)anthracene	0.123	0.000441	"	0.167		73.6	30-130			
Benzo(b)fluoranthene	0.093	0.000138	"	0.167		55.6	30-130			
Benzo(k)fluoranthene	0.0972	0.000486	"	0.167		58.2	30-130			
1-Methylnaphthalene	0.101	0.00048	"	0.167		60.4	30-130			
Dibenz(a,h)anthracene	0.0871	0.000279	"	0.167		52.1	30-130			
Anthracene	0.115	0.000426	"	0.167		68.8	30-130			
Fluorene	0.107	0.000501	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.0818	0.000344	"	0.167		48.9	30-130			
Naphthalene	0.0966	0.000467	"	0.167		57.8	30-130			
Pyrene	0.114	0.000387	"	0.167		68.2	30-130			
Chrysene	0.118	0.000256	"	0.167		70.6	30-130			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571581 - 3550B

LCS (LCS-L571581)

Prepared: 08/27/2021 Analyzed: 08/30/2021

Benzo(a)pyrene	0.112	0.000133	mg/Kg	0.167		67	30-130			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			
Surrogate: 4-Terphenyl-d14	68.4		"	0.333		68.4	33-122			
Surrogate: Nitrobenzene-d5	54.9		"	0.333		54.9	29-110			

LRB (LRB-L571581)

Prepared: 08/27/2021 Analyzed: 08/30/2021

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L571384 - 3050B

MSD (L 96237-MSD-L571384)			Source: 96237			Prepared: 08/27/2021 Analyzed: 08/30/2021				
Cadmium	0.548	0.0259	mg/Kg	0.472	0.0817	116	75-125	5.6	80	
Nickel	7.85	0.0633	"	2.36	5.67	92	75-125	2.4	80	
Barium	62.5	0.042	"	4.72	72.1	NR	75-125	5.9	80	*
Copper	10.6	0.0806	"	2.36	9.26	57	75-125	11.6	80	*
Lead	7.16	0.031	"	2.36	4.78	101	75-125	6.9	80	
Silver	0.501	0.0067	"	0.472	0.0151	106	75-125	4	80	
Zinc	52.6	0.534	"	23.6	22.5	128	75-125	7.4	80	*
Arsenic	3.16	0.0855	"	2.36	1.98	50	75-125	3.1	80	*
Selenium	3.92	0.103	"	4.72	0.186	83	75-125	1.7	80	

MS (L 96237-MS-L571384)			Source: 96237			Prepared: 08/27/2021 Analyzed: 08/30/2021				
Copper	9.43	0.0806	mg/Kg	2.3	9.26	7	75-125			*
Silver	0.481	0.0067	"	0.461	0.0151	104	75-125			
Selenium	3.99	0.103	"	4.61	0.186	87	75-125			
Nickel	7.66	0.0633	"	2.3	5.67	86	75-125			
Lead	6.68	0.031	"	2.3	4.78	82	75-125			
Zinc	48.8	0.534	"	23	22.5	114	75-125			
Arsenic	3.26	0.0855	"	2.3	1.98	56	75-125			*
Barium	58.9	0.042	"	4.61	72.1	NR	75-125			*
Cadmium	0.518	0.0259	"	0.461	0.0817	112	75-125			

LCS (LCS-L571384)			Prepared: 08/27/2021 Analyzed: 08/30/2021							
Zinc	25	0.534	mg/Kg	25		100	80-120			
Arsenic	2.36	0.0855	"	2.5		94	80-120			
Barium	4.38	0.042	"	5		88	80-120			
Cadmium	0.492	0.0259	"	0.5		98	80-120			
Copper	2.47	0.0806	"	2.5		99	80-120			

Origins Laboratory, Inc.

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L571384 - 3050B

LCS (LCS-L571384)

Prepared: 08/27/2021 Analyzed: 08/30/2021

Lead	2.5	0.031	mg/Kg	2.5		100	80-120			
Nickel	2.5	0.0633	"	2.5		100	80-120			
Selenium	4.92	0.103	"	5		98	80-120			
Silver	0.522	0.0067	"	0.5		104	80-120			

LRB (LRB-L571384)

Prepared: 08/27/2021 Analyzed: 08/30/2021

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

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571583 -										
DUP (L 95518-DUP)	Source: 95518				Prepared: Analyzed: 08/30/2021					
Chromium, Hexavalent	1.32	0.246	mg/Kg		1.49	-		12	20	
MS (L 95518-MS)	Source: 95518				Prepared: Analyzed: 08/30/2021					
Chromium, Hexavalent	6.78	0.247	mg/Kg	8.13	1.49	65	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/30/2021					
Chromium, Hexavalent	6.82	0.244	mg/Kg	8		85	75-125			
LRB (LRB)					Prepared: Analyzed: 08/30/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

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

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

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.



October 11, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Olsen 2-2

Project Number - 31403177.101

Attached are your analytical results for KMG - Olsen 2-2 received by Origins Laboratory, Inc. August 31, 2021. This project is associated with Origins project number Y108631-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N10@6'	Y108631-01	Soil	August 31, 2021 11:05	08/31/2021 14:52
E05@6'	Y108631-02	Soil	August 31, 2021 10:50	08/31/2021 14:52
B20@11'	Y108631-03	Soil	August 31, 2021 11:15	08/31/2021 14:52
E06@6'	Y108636-01	Soil	August 31, 2021 14:40	08/31/2021 15:55

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.

Page 3 of 20

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

Origins Work Order: 31403177.101

Checklist Completed by: JP

Date/time completed: 8/31/21

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

Cooler Number/Temperature: 1 / 10.10 °C 1 °C 1 °C (Describe) _____

Thermometer ID: TOB

Sample Receipt Checklist

Client: WSP

Client Project ID: Olsen 2-2

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

Airbill #: NA

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

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"/>		<u>sampled same day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP Date/Time Reviewed 8/31/21

Origins Laboratory, Inc.

Jefe Pellegrini

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4108636

Client: WSP

Client Project ID: Olsen 2-2

Checklist Completed by: JP

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

Date/time completed: 8/31/21

Airbill #: NA

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

Cooler Number/Temperature: 1 / 21.1 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: TC05

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"/>		<u>sampled same day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Kenny Hattner
Reviewed by (Project Manager)

8/31/21
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

N10@6'

8/31/2021 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108631-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.376	0.198	mg/L	1	B110108	JMA	09/01/2021	09/02/2021	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	09/01/2021	U
------------------------	----	---------	-------	---	---------	-----	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4

105 %

70-130

"

"

"

Surrogate: Toluene-d8

92.2 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

98.4 %

70-130

"

"

"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

E05@6'

8/31/2021 10:50:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
Y108631-02 (Soil)

GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
---------	----	---------	-------	---	---------	-----	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4

112 % 70-130

"

"

"

Surrogate: Toluene-d8

97.0 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

99.7 % 70-130

"

"

"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

B20@11'

8/31/2021 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108631-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1I0108	JMA	09/01/2021	09/02/2021	U
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	KDK	08/31/2021	08/31/2021	U
------------------------	----	---------	-------	---	---------	-----	------------	------------	---

Benzene	ND	0.00200	"	"	"	KDK	"	"	U
---------	----	---------	---	---	---	-----	---	---	---

Surrogate: 1,2-Dichloroethane-d4	88.0 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

E06@6'

8/31/2021 2:40:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
Y108636-01 (Soil)

GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B1H3123	KDK	08/31/2021	08/31/2021	U
---------	----	---------	-------	---	---------	-----	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4

98.8 % 70-130

"

"

"

Surrogate: Toluene-d8

94.1 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

99.4 % 70-130

"

"

"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3114 - EPA 5030 (soil)										
Blank (B1H3114-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3114 - EPA 5030 (soil)

LCS (B1H3114-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130			
Naphthalene	0.0468	0.0100	"	0.0500		93.5	70-130			
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.0500		91.0	70-130			
Benzene	0.0413	0.00200	"	0.0500		82.6	70-130			
Ethylbenzene	0.0461	0.00200	"	0.0500		92.2	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		94.0	70-130			
Toluene	0.0473	0.00200	"	0.0500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3114 - EPA 5030 (soil)

Matrix Spike (B1H3114-MS1)		Source: Y108621-14			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500	ND	92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500	ND	87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500	ND	90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100	ND	96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500	ND	94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.101
Project: KMG - Olsen 2-2

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 B1H3114 - EPA 5030 (soil)										
Matrix Spike Dup (B1H3114-MSD1)		Source: Y108621-14			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0484	0.00200	mg/kg	0.0500	ND	96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500	ND	93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500	ND	89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500	ND	95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100	ND	100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500	ND	101	70-130	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3123 - EPA 5030 (soil)										
Blank (B1H3123-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3123 - EPA 5030 (soil)

LCS (B1H3123-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0534	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0523	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0519	0.00200	"	0.0500		104	70-130			
Benzene	0.0458	0.00200	"	0.0500		91.6	70-130			
Ethylbenzene	0.0515	0.00200	"	0.0500		103	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0533	0.00200	"	0.0500		107	70-130			
Toluene	0.0544	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3123 - EPA 5030 (soil)

Matrix Spike (B1H3123-MS1)		Source: Y108635-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0545	0.00200	mg/kg	0.0500	ND	109	70-130			
Naphthalene	0.0584	0.0100	"	0.0500	ND	117	70-130			
1,3,5-Trimethylbenzene	0.0528	0.00200	"	0.0500	ND	106	70-130			
Benzene	0.0477	0.00200	"	0.0500	ND	95.5	70-130			
Ethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130			
m,p-Xylene	0.105	0.00400	"	0.100	ND	105	70-130			
o-Xylene	0.0525	0.00200	"	0.0500	ND	105	70-130			
Toluene	0.0492	0.00200	"	0.0500	ND	98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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 B1H3123 - EPA 5030 (soil)										
Matrix Spike Dup (B1H3123-MSD1)		Source: Y108635-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0513	0.00200	mg/kg	0.0500	ND	103	70-130	5.98	20	
Naphthalene	0.0550	0.0100	"	0.0500	ND	110	70-130	5.93	20	
1,3,5-Trimethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130	5.29	20	
Benzene	0.0469	0.00200	"	0.0500	ND	93.9	70-130	1.69	20	
Ethylbenzene	0.0486	0.00200	"	0.0500	ND	97.2	70-130	3.00	20	
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130	1.92	20	
o-Xylene	0.0503	0.00200	"	0.0500	ND	101	70-130	4.24	20	
Toluene	0.0481	0.00200	"	0.0500	ND	96.2	70-130	2.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1I0108 - Default Prep Metals

Blank (B1I0108-BLK1)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Boron	ND	0.200	mg/L							U
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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.

Jen Pellegrini For Noelle Doyle Mathis, President

September 02, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Olsen 2-2/Clack 1-2A OSA Facility **Project Number - 31403177.101**

Attached are your analytical results for KMG - Olsen 2-2/Clack 1-2A OSA Facility received by Origins Laboratory, Inc. September 01, 2021. This project is associated with Origins project number Y109030-01.

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



WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S07@6'	Y109030-01	Soil	September 1, 2021 13:04	09/01/2021 15:49
B21@11	Y109030-02	Soil	September 1, 2021 12:48	09/01/2021 15:49

Origins Laboratory, Inc.



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Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

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410030

ORIGINS
LABORATORY, INC

page | of |

Client: WSP USA
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: 303 889 9443
Email Address: KMG blorp
Project Manager: Brian Sulzberger
Project Name: Olsen 2-2/Clack 1-2A OSA Facility
Project Number: 31403177.101
Samples Collected By: Kyle Mathis

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
50706	9/1/21	1304	2	X							Ground water Protection 1
B21011	9/1/21	1208	2	X					X		Ground water Protection 2
											3
											4
											5
											6
											7
											8
											9
											10
Relinquished By: <u>Kyle Mathis</u>	Date: <u>9/1/21</u>	Time: <u>1345</u>		Received By: <u>HH</u>	Date: <u>9/1/21</u>	Time: <u>1549</u>		Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard			

Date Results Needed

Temp Received: 3.6

Origins Laboratory, Inc.

Jefe Pellegrini

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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y109030

Client: WSP/KMG

Client Project ID: olsen/clack

Checklist Completed by: jm

Shipped Via: HTD

Date/time completed: 9-1-21

Airbill #: WTA

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

Cooler Number/Temperature: 1 3.6 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T603

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

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

Reviewed by (Project Manager) jm

Date/Time Reviewed 9-1-21

Origins Laboratory, Inc.

Jefe Pellegrini

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

S07@6'

9/1/2021 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109030-01 (Soil)

GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B110111	KDK	09/01/2021	09/01/2021	U
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Surrogate: 1,2-Dichloroethane-d4

97.9 % 70-130

"

"

"

Surrogate: Toluene-d8

94.1 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

100 % 70-130

"

"

"

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

B21@11

9/1/2021 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109030-02 (Soil)

GBTEX+TMBs

Benzene	ND	0.00200	mg/kg	1	B110111	KDK	09/01/2021	09/01/2021	U
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Surrogate: 1,2-Dichloroethane-d4

115 % 70-130

"

"

"

Surrogate: Toluene-d8

94.2 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

113 % 70-130

"

"

"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1I0111 - EPA 5030 (soil)										
Blank (B1I0111-BLK1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 B1I0111 - EPA 5030 (soil)

LCS (B1I0111-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0486	0.00200	mg/kg	0.0500		97.3	70-130			
Naphthalene	0.0522	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0462	0.00200	"	0.0500		92.5	70-130			
Benzene	0.0489	0.00200	"	0.0500		97.7	70-130			
Ethylbenzene	0.0473	0.00200	"	0.0500		94.6	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100		99.8	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Toluene	0.0537	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B110111 - EPA 5030 (soil)

Matrix Spike (B110111-MS1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0481	0.00200	mg/kg	0.0500	ND	96.2	70-130			
Naphthalene	0.0534	0.0100	"	0.0500	ND	107	70-130			
1,3,5-Trimethylbenzene	0.0474	0.00200	"	0.0500	ND	94.9	70-130			
Benzene	0.0560	0.00200	"	0.0500	ND	112	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500	ND	97.6	70-130			
m,p-Xylene	0.0990	0.00400	"	0.100	ND	99.0	70-130			
o-Xylene	0.0508	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0494	0.00200	"	0.0500	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Arvada CO 80003

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Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA 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 B1I0111 - EPA 5030 (soil)

Matrix Spike Dup (B1I0111-MSD1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500	ND	89.8	70-130	6.84	20	
Naphthalene	0.0493	0.0100	"	0.0500	ND	98.6	70-130	8.06	20	
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.0500	ND	89.5	70-130	5.81	20	
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130	4.68	20	
Ethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130	4.78	20	
m,p-Xylene	0.0941	0.00400	"	0.100	ND	94.1	70-130	5.12	20	
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.6	70-130	5.00	20	
Toluene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.101

Project: KMG - Olsen 2-2/Clack 1-2A OSA Facility

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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