

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	AST01@0.5'	Native-BG01@3'	Native-BG01@6'	PH01@6'	PWV-B01@6'
		8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021
Photoionization Detector Reading						
PID (ppm)	NA	4.4	NA	NA	298.1	13.2
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	NA	NA	1.24	<0.200
TPH-DRO* (mg/kg)	500	<25.0	NA	NA	<25.0	<25.0
TPH-RRO* (mg/kg)	500	<100	NA	NA	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.347	9.63	1.17	1.98	0.355
Sodium Adsorption Ratio (SAR)	6	0.372	13.9	5.68	7.23	0.118
pH, Lab (pH units)	6-8.3	8.16	8.06	8.37	8.22	8.09
Boron (mg/L)	2	0.239	1.94	0.563	1.12	<0.201
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	NA	NA	<0.00200	<0.00200
Toluene (mg/kg)	0.69	<0.00200	NA	NA	<0.00200	<0.00200
Ethylbenzene (mg/kg)	0.78	<0.00200	NA	NA	<0.00200	<0.00200
Xylenes, Total (mg/kg)	9.9	<0.00200	NA	NA	<0.00200	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	0.00242	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	<0.00200	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	0.00156	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	<0.00067	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	<0.00067	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	<0.00067	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	<0.00067	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	<0.00067	NA
Chrysene (mg/Kg)	9	NA	NA	NA	<0.00067	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	<0.00067	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	0.000772	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	<0.00067	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	<0.00067	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	<0.00067	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	<0.00067	NA
Naphthalene (mg/Kg)	0.0038	<0.00380	NA	NA	<0.00067	<0.00380
Pyrene (mg/Kg)	1.3	NA	NA	NA	0.00113	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	1.81	0.465	2.53	NA
Barium (mg/Kg)	82	NA	79.5	25.8	74.1	NA
Cadmium (mg/Kg)	0.38	NA	0.129	<0.25	0.12	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	<0.5	<0.5	NA
Copper (mg/Kg)	46	NA	5.87	2.69	9.28	NA
Lead (mg/Kg)	14	NA	5.35	3.57	8.82	NA
Nickel (mg/Kg)	26	NA	6.93	2.55	9.91	NA
Selenium (mg/Kg)	0.26	NA	0.309	0.485	0.361	NA
Silver (mg/Kg)	0.8	NA	0.0276	0.025	0.0419	NA
Zinc (mg/Kg)	370	NA	23.3	12.8	35.3	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	PWV-N01@3'	SEP01-Inlet@3'	SEP01-Outlet@3'	TB-BG01@0.5'	SEP01-B01@9'
		8/10/2021	8/10/2021	8/10/2021	8/10/2021	9/1/2021
Photoionization Detector Reading						
PID (ppm)	NA	2.5	685.2	2480.0	NA	35.6
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	336	1160	NA	0.256
TPH-DRO* (mg/kg)	500	<25.0	255	226	NA	<25.0
TPH-RRO* (mg/kg)	500	<100	<100	<100	NA	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	3.19	0.503	0.307	0.390	NA
Sodium Adsorption Ratio (SAR)	6	1.09	0.329	0.505	0.629	NA
pH, Lab (pH units)	6-8.3	7.87	7.57	7.81	8.30	NA
Boron (mg/L)	2	0.966	0.200	0.360	<0.201	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	0.0687	0.196	NA	<0.00200
Toluene (mg/kg)	0.69	<0.00200	0.00224	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	0.0246	0.883	NA	<0.00200
Xylenes, Total (mg/kg)	9.9	<0.00200	2.62	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	1.89	9.03	NA	0.00840
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	2.04	7.02	NA	<0.00200
Acenaphthene (mg/Kg)	0.55	NA	0.0122	0.0426	NA	NA
Anthracene (mg/Kg)	5.8	NA	0.00455	0.00366	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	0.00481	<0.00335	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	0.0046	0.0019	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.0067	<0.00335	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	0.0046	0.00148	NA	NA
Chrysene (mg/Kg)	9	NA	0.00695	0.00374	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.0067	<0.00335	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	0.0225	0.0105	NA	NA
Fluorene (mg/Kg)	0.54	NA	0.0199	0.0488	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	<0.0067	<0.00335	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	0.0197	0.287	NA	0.00137
2-Methylnaphthalene (mg/Kg)	0.019	NA	0.0317	0.674	NA	0.00336
Naphthalene (mg/Kg)	0.0038	<0.00380	0.0129	0.185	NA	0.000905
Pyrene (mg/Kg)	1.3	NA	0.0277	0.0107	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	1.92	1.65	0.766	1.49
Barium (mg/Kg)	82	NA	79.7	61.5	30.5	NA
Cadmium (mg/Kg)	0.38	NA	0.282	0.0793	0.0416	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	<0.5	<0.5	NA
Copper (mg/Kg)	46	NA	13.3	6.43	4.48	NA
Lead (mg/Kg)	14	NA	15	6.76	3.65	7.47
Nickel (mg/Kg)	26	NA	7.56	7.89	4.42	NA
Selenium (mg/Kg)	0.26	NA	0.391	0.332	0.282	0.31
Silver (mg/Kg)	0.8	NA	0.119	0.0336	0.0186	NA
Zinc (mg/Kg)	370	NA	50	28.6	15.7	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SEP01-B02@9'	SEP01-E01@5'	SEP01-E02@5'	SEP01-N01@5'	SEP01-S01@5'
		9/1/2021	9/1/2021	9/1/2021	9/1/2021	9/1/2021
Photoionization Detector Reading						
PID (ppm)	NA	87.4	1730	148.6	489.6	384.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	82.8	207	1.58	29.2	14.7
TPH-DRO* (mg/kg)	500	<25.0	118	<25.0	42.2	25.5
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
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	0.00560	0.0311	<0.00200	<0.00200	<0.00200
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	0.332	0.592	<0.00200	0.00754	0.00418
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	1.35	6.27	0.00790	0.432	0.209
1,3,5-Trimethylbenzene (mg/kg)	0.0087	1.01	<0.00200	0.00308	<0.00200	0.146
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	0.0303	0.0964	0.00402	0.0403	0.0181
2-Methylnaphthalene (mg/Kg)	0.019	0.0745	0.24	0.00803	0.101	0.0387
Naphthalene (mg/Kg)	0.0038	0.0287	0.0841	<0.00335	0.0193	<0.0067
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.78	3.01	2.59	3.32	2.88
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	7.95	9.68	6.35	8.87	9.25
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	0.271	0.334	0.289	0.358	0.345
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
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SEP01-W01@5'	SEP01-W02@5'	Sep01-B03@12'	Sep01-B04@12'	Sep01-B05@12'
		9/1/2021	9/1/2021	9/10/2021	9/10/2021	9/10/2021
Photoionization Detector Reading						
PID (ppm)	NA	51.6	1270	16.6	24.3	14.3
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	215	NA	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	59.1	NA	NA	NA
TPH-RRO* (mg/kg)	500	<100	<100	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	NA	NA	NA	NA	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	0.0138	<0.00200	<0.00200	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	0.770	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	4.65	<0.00200	0.00216	0.0223
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	2.51	<0.00200	<0.00200	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	0.122	<0.00067	<0.00067	NA
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	0.314	<0.00067	<0.00067	NA
Naphthalene (mg/Kg)	0.0038	<0.00067	0.086	<0.00067	<0.00067	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	2.15	2.49	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	9.43	10.1	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	0.276	0.256	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
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-E03@5'	Sep01-E04@5'	Sep01-N02@5'	Sep01-S02@5'	Native-BG02@12'
		9/10/2021	9/10/2021	9/10/2021	9/10/2021	9/20/2021
Photoionization Detector Reading						
PID (ppm)	NA	1015	1300	20.5	229	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	NA	NA	NA	NA	0.719
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	1.31
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	7.52
Boron (mg/L)	2	NA	NA	NA	NA	0.496
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	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	0.0169	0.488	<0.00200	0.00706	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	<0.00200	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	0.00074	0.0497	<0.0067	<0.00335	NA
2-Methylnaphthalene (mg/Kg)	0.019	0.00176	0.0756	<0.0067	<0.00335	NA
Naphthalene (mg/Kg)	0.0038	0.000817	0.0223	<0.0067	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	2.6	2.23	1.64	2.49	2.13
Barium (mg/Kg)	82	NA	NA	NA	NA	124
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	0.145
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	<0.503
Copper (mg/Kg)	46	NA	NA	NA	NA	9.29
Lead (mg/Kg)	14	NA	NA	NA	NA	8.16
Nickel (mg/Kg)	26	NA	NA	NA	NA	10
Selenium (mg/Kg)	0.26	NA	NA	NA	NA	0.234
Silver (mg/Kg)	0.8	NA	NA	NA	NA	0.0456
Zinc (mg/Kg)	370	NA	NA	NA	NA	38.5

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

Analyte	Groundwater Protection Values (GPV)	Native-BG02@6'	Native-BG03@12'	Native-BG03@6'	Native-BG04@12'	Native-BG04@6'
		9/20/2021	9/20/2021	9/20/2021	9/20/2021	9/20/2021
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	0.869	0.589	0.560	0.748	0.845
Sodium Adsorption Ratio (SAR)	6	1.21	1.90	2.05	2.08	2.19
pH, Lab (pH units)	6-8.3	7.36	7.77	7.86	7.58	7.54
Boron (mg/L)	2	0.539	<0.200	<0.200	0.337	0.458
Organic Concentrations in Soil (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	2.17	1.07	0.426	1.15	2.54
Barium (mg/Kg)	82	107	6.77	3.91	56.6	186
Cadmium (mg/Kg)	0.38	0.125	<0.25	<0.25	0.111	0.0984
Chromium, Hexavalent (mg/Kg)	0.00067	<0.515	<0.5	<0.511	<0.5	<0.511
Copper (mg/Kg)	46	9.42	1.58	0.837	5.92	11.5
Lead (mg/Kg)	14	8.73	1.32	0.874	5.82	9.83
Nickel (mg/Kg)	26	9.56	1.54	1	6.55	13.5
Selenium (mg/Kg)	0.26	0.215	<0.25	<0.25	0.129	0.22
Silver (mg/Kg)	0.8	0.0558	<0.25	<0.25	0.0274	0.0612
Zinc (mg/Kg)	370	36.1	5.06	3.77	27.1	48.1

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-B06@14'	Sep01-N03@8'	Sep01-S03@9'	Sep01-W03@8'	Sep01-B07@16'
		9/20/2021	9/20/2021	9/21/2021	9/22/2021	9/27/2021
Photoionization Detector Reading						
PID (ppm)	NA	12.5	392.1	7.8	0.9	7.2
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	NA	NA	NA	NA	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	<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	0.0214	0.0890	NA	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	<0.00200	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	0.0192	NA	<0.00067	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	0.0289	NA	<0.00067	NA
Naphthalene (mg/Kg)	0.0038	NA	0.00678	NA	<0.00067	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	2.43	2.53	3.03	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
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-B08@16'	Sep01-B09@16'	Sep01-E05@6'	Sep01-E06@6'	Sep01-B10@16'
		10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/26/2021
Photoionization Detector Reading						
PID (ppm)	NA	48.7	25.2	963.4	523.2	4.1
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	NA	NA	NA	NA	NA
Organic Concentrations in Soil (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	<0.00200	<0.00200	0.319	0.00454	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	<0.00067	NA	<0.00067	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.00067	NA	0.000541	NA
Naphthalene (mg/Kg)	0.0038	NA	<0.00067	NA	0.00051	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.43	NA	3.79	NA	3.13
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
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-B11@16'	Sep01-E07@6'	Sep01-E08@6'	Sep01-N04@6'	Sep01-N05@6'
		10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021
Photoionization Detector Reading						
PID (ppm)	NA	2.7	255.1	1280	2.5	0.9
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	NA	NA	<0.200	NA
TPH-DRO* (mg/kg)	500	<25.0	NA	NA	<25.0	NA
TPH-RRO* (mg/kg)	500	<100	NA	NA	<100	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.662	NA	NA	2.11	NA
Sodium Adsorption Ratio (SAR)	6	2.13	NA	NA	3.52	NA
pH, Lab (pH units)	6-8.3	7.93	NA	NA	7.93	NA
Boron (mg/L)	2	<0.200	NA	NA	0.436	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	NA	NA	<0.00200	NA
Toluene (mg/kg)	0.69	<0.00200	NA	NA	<0.00200	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	NA	NA	<0.00200	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	NA	NA	<0.00200	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	<0.00200	0.0615	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	NA	NA	<0.00200	NA
Acenaphthene (mg/Kg)	0.55	<0.00067	NA	NA	<0.00067	NA
Anthracene (mg/Kg)	5.8	<0.00067	NA	NA	0.000568	NA
Benzo (a) anthracene (mg/Kg)	0.011	<0.00067	NA	NA	0.00677	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	<0.00067	NA	NA	0.0124	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00067	NA	NA	0.00472	NA
Benzo (a) pyrene (mg/Kg)	0.24	<0.00067	NA	NA	0.0141	NA
Chrysene (mg/Kg)	9	<0.00067	NA	NA	0.00981	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	NA	NA	0.00317	NA
Fluoranthene (mg/Kg)	8.9	<0.00067	NA	NA	0.00304	NA
Fluorene (mg/Kg)	0.54	<0.00067	NA	NA	<0.00067	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00067	NA	NA	0.00694	NA
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	NA	NA	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	NA	NA	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	NA	NA	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	<0.00067	NA	NA	0.0142	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.84	4.07	2.13	3.37	NA
Barium (mg/Kg)	82	55.9	NA	NA	80.4	NA
Cadmium (mg/Kg)	0.38	0.125	NA	NA	0.0738	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<0.514	NA	NA	<2.5	NA
Copper (mg/Kg)	46	8.18	NA	NA	10.2	NA
Lead (mg/Kg)	14	7.56	NA	NA	8.54	NA
Nickel (mg/Kg)	26	9.08	NA	NA	13.6	NA
Selenium (mg/Kg)	0.26	0.373	NA	NA	0.306	NA
Silver (mg/Kg)	0.8	0.0264	NA	NA	0.0715	NA
Zinc (mg/Kg)	370	38.3	NA	NA	41.6	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-N06@6'	Sep01-S04@6'	Sep01-S05@6'	Sep01-S06@6'	Sep01-W04@6'
		10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021
Photoionization Detector Reading						
PID (ppm)	NA	2.3	1.5	4.8	53.8	2.2
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	<0.200
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	<25.0
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	0.900
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	2.99
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	7.92
Boron (mg/L)	2	NA	NA	NA	NA	0.663
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	<0.00200
Toluene (mg/kg)	0.69	NA	NA	NA	NA	<0.00200
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	<0.00200
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	NA	NA	NA	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	<0.00200
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	<0.00067
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	<0.00067
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	0.000559
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	0.000647
Chrysene (mg/Kg)	9	NA	NA	NA	NA	0.000283
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	<0.00067
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	<0.00067
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	<0.00067
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	<0.00067
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	NA	NA	NA	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	NA	NA	NA	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	NA	NA	NA	<0.00067
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	<0.00067
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	3.05	1.48	2.06	3.1
Barium (mg/Kg)	82	NA	NA	NA	NA	184
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	0.144
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	<0.5
Copper (mg/Kg)	46	NA	NA	NA	NA	12.7
Lead (mg/Kg)	14	NA	NA	NA	NA	11.2
Nickel (mg/Kg)	26	NA	NA	NA	NA	12.7
Selenium (mg/Kg)	0.26	NA	NA	NA	NA	0.46
Silver (mg/Kg)	0.8	NA	NA	NA	NA	0.0733
Zinc (mg/Kg)	370	NA	NA	NA	NA	50.8

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-W05@6'	Sep01-W06@6'	Sep01-B12@17'	Sep01-E09@6'	Sep01-E10@6'
		10/26/2021	10/26/2021	12/3/2021	12/3/2021	12/3/2021
Photoionization Detector Reading						
PID (ppm)	NA	2.6	2.4	0.0	358.7	215.8
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	NA	NA	NA	NA	NA
Organic Concentrations in Soil (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	0.0164	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	3.25	2.66	1.64	NA	2.18
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
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-N07@6'	Sep01-S07@6'	Sep01-W07@6'	Sep01-W08@6'	Sep01-W09@6'
		12/3/2021	12/3/2021	12/3/2021	12/3/2021	12/3/2021
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	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	NA	NA	NA	NA	NA
Organic Concentrations in Soil (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	2.38	2.63	2.16	2.85	2.11
Barium (mg/Kg)	82	NA	NA	134	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	<0.25	NA	0.103	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
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SEP01-B13@17'	SEP01-B14@14'	SEP01-E11@6'	SEP01-E12@6'	SEP01-E13@6'
		12/30/2021	12/30/2021	12/30/2021	12/30/2021	12/30/2021
Photoionization Detector Reading						
PID (ppm)	NA	5.2	25.5	396.8	4.0	4.1
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	0.506	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	<25.0	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	<100	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	0.830	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	2.00	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	7.89	NA	NA
Boron (mg/L)	2	NA	NA	0.317	NA	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	<0.00200	NA	NA
Toluene (mg/kg)	0.69	NA	NA	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	<0.00200	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	<0.00200	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	0.000573	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	0.002	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	0.01	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	0.00672	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	0.00348	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	0.00608	NA	NA
Chrysene (mg/Kg)	9	NA	NA	0.00867	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	0.00276	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	0.0298	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	0.00242	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	0.00467	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	<0.00067	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	0.000419	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	<0.00067	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	0.0314	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.39	NA	1.62	NA	NA
Barium (mg/Kg)	82	NA	NA	133	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	0.211	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	<0.5	NA	NA
Copper (mg/Kg)	46	NA	NA	7.12	NA	NA
Lead (mg/Kg)	14	NA	NA	6.26	NA	NA
Nickel (mg/Kg)	26	NA	NA	8.96	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	0.127	NA	NA
Silver (mg/Kg)	0.8	NA	NA	0.0225	NA	NA
Zinc (mg/Kg)	370	NA	NA	27.5	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	SEP01-N08@6'	SEP01-S08@6'	SEP01-W10@6'	Sep-01-N09@6'
		12/30/2021	12/30/2021	12/30/2021	1/14/2022
Photoionization Detector Reading					
PID (ppm)	NA	4.7	5.8	4.5	3.5
Total Petroleum Hydrocarbons by USEPA Method 8015D					
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA
Soil Suitability for Reclamation					
EC (mmhos/cm)	4	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA
Organic Concentrations in Soil (GPV for Soil)					
Benzene (mg/kg)	0.0026	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA
Metals in Soils (GPV for Soil)					
Arsenic (mg/Kg)	0.29	3.12	1.99	1.99	1.8
Barium (mg/Kg)	82	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	NA
Nickel (mg/Kg)	26	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ANDERSON UP 32-9A-UP O SA FACILITY
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
PHOTOIONIZATION DETECTOR FIELD RESULTS
ANDERSON UP 32-9A, UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
AST01@6"	Above Ground Storage Tank	8/10/2021	4.4
AST01 Base	Above Ground Storage Tank	8/10/2021	2.1
AST01 Dumpline	Above Ground Storage Tank	8/10/2021	2.5
PWV-B01@6'	Produced Water Vessel	8/10/2021	13.2
PWV-N01@3'	Produced Water Vessel	8/10/2021	2.5
PWV East Wall	Produced Water Vessel	8/10/2021	1.0
PWV West Wall	Produced Water Vessel	8/10/2021	1.5
PWV South Wall	Produced Water Vessel	8/10/2021	2.3
PWV Dumpline	Produced Water Vessel	8/10/2021	2.2
Sep01-Inlet@3'	Separator	8/10/2021	685.2
Sep01-Outlet@3'	Separator	8/10/2021	2480.0
Sep01-N01@5'	Separator	9/1/2021	489.6
Sep01-E01@5'	Separator	9/1/2021	1730.0
Sep01-E02@5'	Separator	9/1/2021	148.6
Sep01-S01@5'	Separator	9/1/2021	384.0
Sep01-W01@5'	Separator	9/1/2021	51.6
Sep01-W02@5'	Separator	9/1/2021	1270.0
Sep01-B01@9'	Separator	9/1/2021	35.6
Sep01-B02@9'	Separator	9/1/2021	87.4
Sep01-N02@5'	Separator	9/10/2021	20.5
Sep01-E03@5'	Separator	9/10/2021	1015.0
Sep01-E04@5'	Separator	9/10/2021	1300.0
Sep01-S02@5'	Separator	9/10/2021	229.0
Sep01-B03@12'	Separator	9/10/2021	16.6
Sep01-B04@12'	Separator	9/10/2021	24.3
Sep01-B05@12'	Separator	9/10/2021	14.3
Sep01-B06@14'	Separator	9/20/2021	12.5
Sep01-N03@8'	Separator	9/20/2021	392.1
Sep01-S03@9'	Separator	9/21/2021	7.8
Sep01-W03@8'	Separator	9/22/2021	0.9
Sep01-B07@16'	Separator	9/27/2021	7.2
Sep01-E05@5'	Separator	10/4/2021	963.4
Sep01-E06@5'	Separator	10/4/2021	523.2
Sep01-B08@16'	Separator	10/4/2021	48.7
Sep01-B09@16'	Separator	10/4/2021	25.2
Sep01-N04@6'	Separator	10/26/2021	2.5
Sep01-N05@6'	Separator	10/26/2021	0.9
Sep01-N06@6'	Separator	10/26/2021	2.3
Sep01-E07@6'	Separator	10/26/2021	255.1
Sep01-E08@6'	Separator	10/26/2021	1280.0
Sep01-S04@6'	Separator	10/26/2021	1.5
Sep01-S05@6'	Separator	10/26/2021	4.8
Sep01-S06@6'	Separator	10/26/2021	53.8
Sep01-W04@6'	Separator	10/26/2021	2.2
Sep01-W05@6'	Separator	10/26/2021	2.6
Sep01-W06@6'	Separator	10/26/2021	2.4
Sep01-B10@16'	Separator	10/26/2021	4.1

TABLE 2
PHOTOIONIZATION DETECTOR FIELD RESULTS
ANDERSON UP 32-9A, UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
Sep01-B11@16'	Separator	10/26/2021	2.7
Sep01-N07@6'	Separator	12/3/2021	0.0
Sep01-W07@6'	Separator	12/3/2021	0.0
Sep01-W08@6'	Separator	12/3/2021	0.0
Sep01-W09@6'	Separator	12/3/2021	0.0
Sep01-S07@6'	Separator	12/3/2021	0.0
Sep01-B12@17'	Separator	12/3/2021	0.0
Sep01-E09@6'	Separator	12/3/2021	358.7
Sep01-E10@6'	Separator	12/3/2021	215.8
Sep01-N08@6'	Separator	12/30/2021	4.7
Sep01-W10@6'	Separator	12/30/2021	4.5
Sep01-B13@17'	Separator	12/30/2021	5.2
Sep01-E11@6'	Separator	12/30/2021	396.8
Sep01-E12@6'	Separator	12/30/2021	4.0
Sep01-E13@6'	Separator	12/30/2021	4.1
Sep01-S08@6'	Separator	12/30/2021	5.8
Sep01-B14@14'	Separator	12/30/2021	25.5
Sep01-N09@6'	Separator	1/14/2022	3.5
Meter House	Meter House	8/10/2021	2.7
ECD	Emission Control Device	8/10/2021	5.1
PH01	Pothole	8/10/2021	298.1
TB-BG01@6"	Background	8/10/2021	NA
Native-BG01@3'	Background	8/10/2021	NA
Native-BG01@6'	Background	8/10/2021	NA
Native-BG02@6'	Background	9/20/2021	NA
Native-BG02@12'	Background	9/20/2021	NA
Native-BG03@6'	Background	9/20/2021	NA
Native-BG03@12'	Background	9/20/2021	NA
Native-BG04@6'	Background	9/20/2021	NA
Native-BG04@12'	Background	9/20/2021	NA

Notes:

PID - Photoionization Detector

ppm - parts per million

NA - Not Analyzed

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
ANDERSON UP 32-9A, UP O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
COGCC Allowable Levels		5	560	700	1400	140	67	67	3,950,000	260,000	1,975,000	
GW01	8/10/2021	284	4.65	105	1150	19.2	179	139	654,000	<31,200	162,000	5
GW02	8/10/2021	1.8	1.25	3	12.8	<4.00	17.7	7.06	744,000	37,200	<31,200	6
GW-BG01	8/10/2021	NA	NA	NA	NA	NA	NA	NA	3,160,000	208,000	1,580,000	6

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

Total dissolved solids, chloride ion, and sulfate ion parameters based on background sample (GW-BG01) concentration x 1.25



March 11, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A

Project Number - 31403177.95

Attached are your analytical results for KMG - Anderson UPRR 32-9A received by Origins Laboratory, Inc. August 10, 2021. This project is associated with Origins project number Y108195-01.

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: 31403177.95

Project: KMG - Anderson UPRR 32-9A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV-B01@6'	Y108195-01	Soil	August 10, 2021 10:11	08/10/2021 16:53
PWV-N01@3'	Y108195-02	Soil	August 10, 2021 10:05	08/10/2021 16:53
AST01@0.5	Y108195-03	Soil	August 10, 2021 10:35	08/10/2021 16:53
SEP01-Inlet@3'	Y108195-04	Soil	August 10, 2021 11:10	08/10/2021 16:53
SEP01-Outlet@3'	Y108195-05	Soil	August 10, 2021 11:04	08/10/2021 16:53
PH01@6'	Y108195-06	Soil	August 10, 2021 11:40	08/10/2021 16:53
Native-BG01@3'	Y108195-07	Soil	August 10, 2021 11:46	08/10/2021 16:53
Native-BG01@6'	Y108195-08	Soil	August 10, 2021 11:47	08/10/2021 16:53
TB-BG01@0.5'	Y108195-09	Soil	August 10, 2021 10:39	08/10/2021 16:53
GW01	Y108195-10	Water	August 10, 2021 9:30	08/10/2021 16:53
GW02	Y108195-11	Water	August 10, 2021 9:37	08/10/2021 16:53
GW-BG01	Y108195-12	Water	August 10, 2021 11:48	08/10/2021 16:53

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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

ORIGINS
LABORATORY, INC

Y108195

www.originslaboratory.com

Client: WSP, USA

Address: 4600 W 60th Ave

Arvada, CO 80003

Telephone Number: (303) 889-9943

Email Address: Kyle Mathis (600P)

Project Manager: Brian Sulzberger

Project Name: Anderson UPRR 32-9A (Facility)

Project Number: 31403177.95

Samples Collected By: Kyle Mathis

Temp Received- 5.2

Date Results Needed

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa Canister #	Other	
PW-50106	8/10/21	1011	2								Grand water analysis
PW-110103		1005	2								
AS10100.5		1035	2								
SEP01-11103		1110	2								
SEP01-001103		1104	2								
PH106		1140	2								
Native-B-10103		1146	2								
Native-B-50106		1147	2								
TS-55000.5		1039	2								
CU01		0930	4								
6-102		0932	4								
6-102		1142	1								
Relinquished By: <u>Kyle Mathis</u>	Date: <u>8/10/21</u>	Time: <u>1653</u>									
Relinquished By: <u>[Signature]</u>	Date: <u>8/10/21</u>	Time: <u>1653</u>									

Turnaround Time:
☐ 48 Hr
☒ Same Day
☐ 72 Hr
☐ Standard

Origins Laboratory, Inc.

Bynon

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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y108195

Client: WSP

Client Project ID: Anderson UPRR 32-9A

Checklist Completed by: SG

Date/time completed: 8/10/21

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, S.2. °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"/>			
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) [Signature]

Date/Time Reviewed 8/10/21

Origins Laboratory, Inc.

J. Bynon

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

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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PWV-B01@6'

8/10/2021 10:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1H1201	08/12/2021	08/12/2021	
-------	----	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1024	08/10/2021	08/10/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.8 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B1H1007	08/10/2021	08/10/2021	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	91.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PWV-B01@6'

8/10/2021 10:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.92	0.0499	meq/L	1	[CALC]	08/11/2021	08/12/2021
Magnesium	0.597	0.0823	"	"	"	"	"
Sodium	0.156	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.09		pH Units	1	B1H1135	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	0.118		SAR	1	B1H1141	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.355	0.00500	mmhos/cm	1	B1H1136	08/11/2021	08/12/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PWV-N01@3'

8/10/2021 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.966	0.201	mg/L	1	B1H1201	08/12/2021	08/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1024	08/10/2021	08/10/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

Benzene	ND	0.00200	mg/kg	1	B1H1007	08/10/2021	08/10/2021	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PWV-N01@3'

8/10/2021 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	24.7	0.0499	meq/L	1	[CALC]	08/11/2021	08/12/2021
Magnesium	15.4	0.0823	"	"	"	"	"
Sodium	4.89	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	7.87	pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	1.09	SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.19	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

AST01@0.5

8/10/2021 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108195-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.239	0.199	mg/L	1	B1H1201	08/12/2021	08/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1024	08/10/2021	08/10/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.0 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B1H1007	08/10/2021	08/10/2021	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	90.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

AST01@0.5

8/10/2021 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.23	0.0499	meq/L	1	[CALC]	08/11/2021	08/12/2021
Magnesium	0.502	0.0823	"	"	"	"	"
Sodium	0.436	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.16		pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	0.372		SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.347	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

SEP01-Inlet@3'

8/10/2021 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108195-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.200	0.200	mg/L	1	B1H1201	08/12/2021	08/12/2021
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	255	25.0	mg/kg	1	B1H1024	08/10/2021	08/10/2021
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

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

1,2,4-Trimethylbenzene	1.89	0.0500	mg/kg	25	B1H1007	08/10/2021	08/11/2021
1,3,5-Trimethylbenzene	2.04	0.0500	"	"	"	"	"
Benzene	0.0687	0.00200	"	1	"	"	08/11/2021
Ethylbenzene	0.0246	0.00200	"	"	"	"	"
Toluene	0.00224	0.00200	"	"	"	"	"
Xylenes, total	2.62	0.0500	"	25	"	"	08/11/2021
Gasoline Range Hydrocarbons	336	5.00	"	"	"	"	08/11/2021

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	88.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	70-130	"	"	08/11/2021

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

SEP01-Inlet@3'

8/10/2021 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.26	0.0499	meq/L	1	[CALC]	08/11/2021	08/12/2021
Magnesium	1.20	0.0823	"	"	"	"	"
Sodium	0.492	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0197	0.0048	0.0067	mg/Kg	10	L568855	08/12/2021	08/12/2021
2-Methylnaphthalene	0.0317	0.00542	0.0067	"	"	"	"	"
Acenaphthene	0.0122	0.00431	0.0067	"	"	"	"	"
Anthracene	0.00455	0.00426	0.0067	"	"	"	"	J
Benzo(a)anthracene	0.00481	0.00441	0.0067	"	"	"	"	J
Benzo(a)pyrene	0.0046	0.00133	0.0067	"	"	"	"	J
Benzo(b)fluoranthene	0.0046	0.00138	0.0067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00486	0.0067	"	"	"	"	"
Chrysene	0.00695	0.00256	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00279	0.0067	"	"	"	"	"
Fluoranthene	0.0225	0.00529	0.0067	"	"	"	"	"
Fluorene	0.0199	0.00501	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00344	0.0067	"	"	"	"	"
Naphthalene	0.0129	0.00467	0.0067	"	"	"	"	"
Pyrene	0.0277	0.00387	0.0067	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

SEP01-Inlet@3'

8/10/2021 11:10:00AM

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

Y108195-04 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	79.5 %		33-115			L5688 55	08/12/2021	08/12/2021	
Surrogate: 4-Terphenyl-d14	84.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.57			pH Units	1	B1H1134	08/11/2021	08/12/2021	
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SAR by 20B Saturated Paste

SAR	0.329			SAR	1	B1H1140	08/11/2021	08/12/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.503		0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021	
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Total Metals by 6020B

Arsenic	1.92	0.0855	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	
Barium	79.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.282	0.0259	0.25	"	"	"	"	"	
Copper	13.3	0.0806	0.25	"	"	"	"	"	
Lead	15	0.031	0.25	"	"	"	"	"	
Nickel	7.56	0.0633	0.25	"	"	"	"	"	
Selenium	0.391	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

SEP01-Inlet@3'

8/10/2021 11:10:00AM

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

Y108195-04 (Soil)

Total Metals by 6020B

Silver	0.119	0.0067	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	J
Zinc	50	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568970	08/09/2021	08/13/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

SEP01-Outlet@3'
8/10/2021 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.360	0.200	mg/L	1	B1H1201	08/12/2021	08/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	226	25.0	mg/kg	1	B1H1024	08/10/2021	08/10/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	9.03	0.0500	mg/kg	25	B1H1007	08/10/2021	08/11/2021	
1,3,5-Trimethylbenzene	7.02	0.0500	"	"	"	"	"	
Benzene	0.196	0.0500	"	"	"	"	"	
Ethylbenzene	0.883	0.0500	"	"	"	"	"	
Toluene	ND	0.00200	"	1	"	"	08/11/2021	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1160	50.0	"	250	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	08/11/2021	
Surrogate: Toluene-d8	88.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	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: 31403177.95
Project: KMG - Anderson UPRR 32-9A

SEP01-Outlet@3'
8/10/2021 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.0499	meq/L	1	[CALC]	08/11/2021	08/12/2021
Magnesium	1.00	0.0823	"	"	"	"	"
Sodium	0.573	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.287	0.0024	0.00335	mg/Kg	5	L568855	08/12/2021	08/12/2021
2-Methylnaphthalene	0.674	0.00271	0.00335	"	"	"	"	"
Acenaphthene	0.0426	0.00216	0.00335	"	"	"	"	"
Anthracene	0.00366	0.00213	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"
Benzo(a)pyrene	0.00148	0.000665	0.00335	"	"	"	"	J
Benzo(b)fluoranthene	0.0019	0.00069	0.00335	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"
Chrysene	0.00374	0.00128	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"
Fluoranthene	0.0105	0.00265	0.00335	"	"	"	"	"
Fluorene	0.0488	0.00251	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"
Naphthalene	0.185	0.00234	0.00335	"	"	"	"	"
Pyrene	0.0107	0.00194	0.00335	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	80.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	86.4 %		33-122			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

SEP01-Outlet@3'
8/10/2021 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108195-05 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	62.3 %	29-110	L5688 55	08/12/2021	08/12/2021
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pH in Soil by 9045D

pH	7.81	pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	0.505	SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.307	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Total Metals by 6020B

Arsenic	1.65	0.0855	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	
Barium	61.5	0.042	0.25	"	"	"	"	"	
Cadmium	0.0793	0.0259	0.25	"	"	"	"	"	J
Copper	6.43	0.0806	0.25	"	"	"	"	"	
Lead	6.76	0.031	0.25	"	"	"	"	"	
Nickel	7.89	0.0633	0.25	"	"	"	"	"	
Selenium	0.332	0.103	0.25	"	"	"	"	"	
Silver	0.0336	0.0067	0.25	"	"	"	"	"	J
Zinc	28.6	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

SEP01-Outlet@3'

8/10/2021 11:04:00AM

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

Y108195-05 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568970	08/09/2021	08/13/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PH01@6'

8/10/2021 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.12	0.200	mg/L	1	B1H1201	08/12/2021	08/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1024	08/10/2021	08/10/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00242	0.00200	mg/kg	1	B1H1007	08/10/2021	08/11/2021	
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	1.24	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	89.6 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PH01@6'

8/10/2021 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.3 %	70-130	B1H10 07	08/10/2021	08/11/2021
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Metals by Saturated Paste by EPA 6010

Calcium	2.86	0.0499	meq/L	1	[CALC]	08/11/2021	08/12/2021
Magnesium	5.75	0.0823	"	"	"	"	"
Sodium	15.0	0.0435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L568855	08/12/2021	08/12/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	0.00156	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	0.000772	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

PH01@6'

8/10/2021 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108195-06 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L568855	08/12/2021	08/12/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00113	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.22	pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	7.23	SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.98	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Total Metals by 6020B

Arsenic	2.53	0.0855	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021
Barium	74.1	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

PH01@6'

8/10/2021 11:40:00AM

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

Y108195-06 (Soil)

Total Metals by 6020B

Cadmium	0.12	0.0259	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	J
Copper	9.28	0.0806	0.25	"	"	"	"	"	
Lead	8.82	0.031	0.25	"	"	"	"	"	
Nickel	9.91	0.0633	0.25	"	"	"	"	"	
Selenium	0.361	0.103	0.25	"	"	"	"	"	
Silver	0.0419	0.0067	0.25	"	"	"	"	"	J
Zinc	35.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568970	08/09/2021	08/13/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

Native-BG01@3'

8/10/2021 11:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108195-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.94	0.200	mg/L	1	B1H1201	08/12/2021	08/12/2021
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Metals by Saturated Paste by EPA 6010

Calcium	22.6	0.0499	meq/L	"	[CALC]	08/11/2021	08/12/2021
Magnesium	35.8	0.0823	"	"	"	"	"
Sodium	75.2	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.06		pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	13.9		SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	9.63	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Total Metals by 6020B

Arsenic	1.81	0.0855	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021
Barium	79.5	0.042	0.25	"	"	"	"	"
Cadmium	0.129	0.0259	0.25	"	"	"	"	"
Copper	5.87	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

Native-BG01@3'

8/10/2021 11:46:00AM

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

Y108195-07 (Soil)

Total Metals by 6020B

Lead	5.35	0.031	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	
Nickel	6.93	0.0633	0.25	"	"	"	"	"	
Selenium	0.309	0.103	0.25	"	"	"	"	"	
Silver	0.0276	0.0067	0.25	"	"	"	"	"	J
Zinc	23.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568970	08/10/2021	08/13/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

Native-BG01@6'

8/10/2021 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108195-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.563	0.201	mg/L	1	B1H1201	08/12/2021	08/12/2021
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Metals by Saturated Paste by EPA 6010

Calcium	1.15	0.0499	meq/L	"	[CALC]	08/11/2021	08/12/2021
Magnesium	2.91	0.0823	"	"	"	"	"
Sodium	8.08	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.37		pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	5.68		SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Total Metals by 6020B

Arsenic	0.465	0.0855	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021
Barium	25.8	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	2.69	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

Native-BG01@6'

8/10/2021 11:47:00AM

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

Y108195-08 (Soil)

Total Metals by 6020B

Lead	3.57	0.031	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	
Nickel	2.55	0.0633	0.25	"	"	"	"	"	
Selenium	0.485	0.103	0.25	"	"	"	"	"	
Silver	0.025	0.0067	0.25	"	"	"	"	"	J
Zinc	12.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568970	08/10/2021	08/13/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

TB-BG01@0.5'

8/10/2021 10:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108195-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1H1201	08/12/2021	08/12/2021
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Metals by Saturated Paste by EPA 6010

Calcium	1.92	0.0499	meq/L	"	[CALC]	08/11/2021	08/12/2021
Magnesium	1.05	0.0823	"	"	"	"	"
Sodium	0.764	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.30		pH Units	1	B1H1134	08/11/2021	08/12/2021
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SAR by 20B Saturated Paste

SAR	0.629		SAR	1	B1H1140	08/11/2021	08/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.390	0.00500	mmhos/cm	1	B1H1133	08/11/2021	08/12/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568972	08/10/2021	08/13/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

TB-BG01@0.5'

8/10/2021 10:39:00AM

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

Y108195-09 (Soil)

Total Metals by 6020B

Arsenic	0.766	0.0855	0.25	mg/Kg	5	L568870	08/12/2021	08/20/2021	
Barium	30.5	0.042	0.25	"	"	"	"	"	
Cadmium	0.0416	0.0259	0.25	"	"	"	"	"	J
Copper	4.48	0.0806	0.25	"	"	"	"	"	
Lead	3.65	0.031	0.25	"	"	"	"	"	
Nickel	4.42	0.0633	0.25	"	"	"	"	"	
Selenium	0.282	0.103	0.25	"	"	"	"	"	
Silver	0.0186	0.0067	0.25	"	"	"	"	"	J
Zinc	15.7	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

GW01

8/10/2021 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108195-10 (Water)

Anions by IC 300.0

Chloride	ND	31.2	mg/L	125	B1H1026	08/10/2021	08/12/2021
Sulfate	162	31.2	"	"	"	"	"

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	179	10.0	ug/L	10	B1H0921	08/10/2021	08/11/2021
1,3,5-Trimethylbenzene	139	1.00	"	1	"	"	08/10/2021
Benzene	284	10.0	"	10	"	"	08/11/2021
Ethylbenzene	105	1.00	"	1	"	"	08/10/2021
Naphthalene	19.2	4.00	"	"	"	"	"
Toluene	4.65	1.00	"	"	"	"	"
Xylenes, total	1150	10.0	"	10	"	"	08/11/2021

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	08/10/2021
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	654	5.00	mg/L	1	B1H1021	08/10/2021	08/11/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

GW02

8/10/2021 9:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108195-11 (Water)

Anions by IC 300.0

Chloride	37.2		31.2	mg/L	125	B1H1026	08/10/2021	08/12/2021	
Sulfate	ND		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	17.7		1.00	ug/L	1	B1H0921	08/10/2021	08/10/2021	
1,3,5-Trimethylbenzene	7.06		1.00	"	"	"	"	"	
Benzene	1.80		1.00	"	"	"	"	"	
Ethylbenzene	2.56		1.00	"	"	"	"	"	
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	1.25		1.00	"	"	"	"	"	
Xylenes, total	12.8		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	95.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	744	5.00	mg/L	1	B1H1021	08/10/2021	08/11/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

GW-BG01**8/10/2021 11:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.**Y108195-12 (Water)****Anions by IC 300.0**

Chloride	208	31.2	mg/L	125	B1H1026	08/10/2021	08/12/2021
Sulfate	1580	31.2	"	"	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	3160	5.00	"	1	B1H1021	08/10/2021	08/11/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 B1H0921 - EPA 5030B (Water)										
Blank (B1H0921-BLK1)					Prepared: 08/09/2021 Analyzed: 08/10/2021					
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	59		"	62.5		93.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 B1H0921 - EPA 5030B (Water)										
LCS (B1H0921-BS1)					Prepared: 08/09/2021 Analyzed: 08/10/2021					
1,2,4-Trimethylbenzene	58.5	1.00	ug/L	50.0		117	70-130			
1,3,5-Trimethylbenzene	62.3	1.00	"	50.0		125	70-130			
Benzene	56.7	1.00	"	50.0		113	70-130			
Ethylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
Naphthalene	52.0	4.00	"	50.0		104	70-130			
o-Xylene	48.5	1.00	"	50.0		97.1	70-130			
Toluene	54.7	1.00	"	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		111	70-130			

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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 B1H0921 - EPA 5030B (Water)

Matrix Spike (B1H0921-MS1)		Source: Y108155-01			Prepared: 08/09/2021 Analyzed: 08/10/2021					
1,2,4-Trimethylbenzene	53.7	1.00	ug/L	50.0	ND	107	70-130			
1,3,5-Trimethylbenzene	54.2	1.00	"	50.0	0.120	108	70-130			
Benzene	54.7	1.00	"	50.0	ND	109	70-130			
Ethylbenzene	49.1	1.00	"	50.0	ND	98.2	70-130			
m,p-Xylene	96.8	2.00	"	100	ND	96.8	70-130			
Naphthalene	56.4	4.00	"	50.0	0.620	112	70-130			
o-Xylene	51.5	1.00	"	50.0	ND	103	70-130			
Toluene	53.6	1.00	"	50.0	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0921 - EPA 5030B (Water)										
Matrix Spike Dup (B1H0921-MSD1)			Source: Y108155-01		Prepared: 08/09/2021 Analyzed: 08/10/2021					
1,2,4-Trimethylbenzene	60.2	1.00	ug/L	50.0	ND	120	70-130	11.3	20	
1,3,5-Trimethylbenzene	62.1	1.00	"	50.0	0.120	124	70-130	13.5	20	
Benzene	59.2	1.00	"	50.0	ND	118	70-130	7.99	20	
Ethylbenzene	53.9	1.00	"	50.0	ND	108	70-130	9.23	20	
m,p-Xylene	106	2.00	"	100	ND	106	70-130	8.68	20	
Naphthalene	56.8	4.00	"	50.0	0.620	112	70-130	0.548	20	
o-Xylene	52.9	1.00	"	50.0	ND	106	70-130	2.68	20	
Toluene	57.8	1.00	"	50.0	ND	116	70-130	7.54	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H1007 - EPA 5030 (soil)										
Blank (B1H1007-BLK1)					Prepared: 08/10/2021 Analyzed: 08/10/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H1007 - EPA 5030 (soil)										
LCS (B1H1007-BS1)					Prepared: 08/10/2021 Analyzed: 08/10/2021					
1,2,4-Trimethylbenzene	0.0566	0.00200	mg/kg	0.0500		113	70-130			
1,3,5-Trimethylbenzene	0.0562	0.00200	"	0.0500		112	70-130			
Benzene	0.0547	0.00200	"	0.0500		109	70-130			
Ethylbenzene	0.0549	0.00200	"	0.0500		110	70-130			
Naphthalene	0.0498	0.0100	"	0.0500		99.5	70-130			
Toluene	0.0567	0.00200	"	0.0500		113	70-130			
o-Xylene	0.0557	0.00200	"	0.0500		111	70-130			
m,p-Xylene	0.116	0.00400	"	0.100		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H1007 - EPA 5030 (soil)										
Matrix Spike (B1H1007-MS1)		Source: Y108182-01			Prepared: 08/10/2021 Analyzed: 08/10/2021					
1,2,4-Trimethylbenzene	0.0452	0.00200	mg/kg	0.0500	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500	ND	90.7	70-130			
Benzene	0.0483	0.00200	"	0.0500	ND	96.6	70-130			
Ethylbenzene	0.0455	0.00200	"	0.0500	ND	90.9	70-130			
Naphthalene	0.0392	0.0100	"	0.0500	0.00166	75.1	70-130			
Toluene	0.0461	0.00200	"	0.0500	ND	92.3	70-130			
o-Xylene	0.0470	0.00200	"	0.0500	ND	94.0	70-130			
m,p-Xylene	0.0954	0.00400	"	0.100	ND	95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H1007 - EPA 5030 (soil)										
Matrix Spike Dup (B1H1007-MSD1)										
					Source: Y108182-01					
										Prepared: 08/10/2021 Analyzed: 08/10/2021
1,2,4-Trimethylbenzene	0.0514	0.00200	mg/kg	0.0500	ND	103	70-130	12.8	20	
1,3,5-Trimethylbenzene	0.0518	0.00200	"	0.0500	ND	104	70-130	13.3	20	
Benzene	0.0557	0.00200	"	0.0500	ND	111	70-130	14.3	20	
Ethylbenzene	0.0522	0.00200	"	0.0500	ND	104	70-130	13.8	20	
Naphthalene	0.0438	0.0100	"	0.0500	0.00166	84.4	70-130	11.1	20	
Toluene	0.0538	0.00200	"	0.0500	ND	108	70-130	15.3	20	
o-Xylene	0.0533	0.00200	"	0.0500	ND	107	70-130	12.6	20	
m,p-Xylene	0.109	0.00400	"	0.100	ND	109	70-130	13.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

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Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B1H1024 - EPA 3550B

Blank (B1H1024-BLK1)

Prepared: 08/10/2021 Analyzed: 08/10/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		73.4	50-150			

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Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B1H1024 - EPA 3550B

LCS (B1H1024-BS1)

Prepared: 08/10/2021 Analyzed: 08/10/2021

Diesel (C10-C28)	778	50.0	mg/kg	1000		77.8	70-130			
Residual Range Organics (C28-C40)	940	200	"	1000		94.0	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B1H1024 - EPA 3550B

Matrix Spike (B1H1024-MS1)		Source: Y108193-01			Prepared: 08/10/2021 Analyzed: 08/10/2021					
Diesel (C10-C28)	798	50.0	mg/kg	1000	ND	79.8	70-130			
Residual Range Organics (C28-C40)	948	200	"	1000	ND	94.8	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.4	50-150			

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Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B1H1024 - EPA 3550B

Matrix Spike Dup (B1H1024-MSD1)		Source: Y108193-01			Prepared: 08/10/2021 Analyzed: 08/10/2021					
Diesel (C10-C28)	822	50.0	mg/kg	1000	ND	82.2	70-130	2.97	35	
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130	5.28	35	
Surrogate: o-Terphenyl	44		"	49.8		89.3	50-150			

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Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 B1H1021 - NO PREP

Blank (B1H1021-BLK1)

Prepared: 08/10/2021 Analyzed: 08/11/2021

Total Dissolved Solids ND 5.00 mg/L

LCS (B1H1021-BS1)

Prepared: 08/10/2021 Analyzed: 08/11/2021

Total Dissolved Solids 969 5.00 mg/L 1000

96.9 85-115

Duplicate (B1H1021-DUP1)

Source: Y108183-14

Prepared: 08/10/2021 Analyzed: 08/11/2021

Total Dissolved Solids 318 5.00 mg/L

308 3.19 20

Batch B1H1026 - Filter .45um non acidified

Blank (B1H1026-BLK1)

Prepared: 08/10/2021 Analyzed: 08/12/2021

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B1H1026-BS1)

Prepared: 08/10/2021 Analyzed: 08/12/2021

Chloride 3.93 0.250 mg/L 4.00

98.1 90-110

Sulfate 3.77 0.250 " 4.00

94.3 90-110

Matrix Spike (B1H1026-MS1)

Source: Y108183-01

Prepared: 08/10/2021 Analyzed: 08/12/2021

Chloride 496 mg/L 500

10.1 97.1 80-120

Sulfate 475 " 500

8.64 93.3 80-120

Matrix Spike Dup (B1H1026-MSD1)

Source: Y108183-01

Prepared: 08/10/2021 Analyzed: 08/12/2021

Origins Laboratory, Inc.



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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 B1H1026 - Filter .45um non acidified

Matrix Spike Dup (B1H1026-MSD1)			Source: Y108183-01			Prepared: 08/10/2021 Analyzed: 08/12/2021				
Chloride	494		mg/L	500	10.1	96.8	80-120	0.361	20	
Sulfate	474		"	500	8.64	93.2	80-120	0.168	20	

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Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H1133 - NO PREP										
Blank (B1H1133-BLK1)					Prepared: 08/11/2021 Analyzed: 08/12/2021					
Specific Conductance (EC)	0.00260	0.00500	mmhos/cm							
Duplicate (B1H1133-DUP1)					Source: Y108194-01 Prepared: 08/11/2021 Analyzed: 08/12/2021					
Specific Conductance (EC)	0.583	0.00500	mmhos/cm		0.465			22.5	25	
Batch B1H1134 - NO PREP										
Duplicate (B1H1134-DUP1)					Source: Y108194-01 Prepared: 08/11/2021 Analyzed: 08/12/2021					
pH	10.5		pH Units		10.6			0.474	25	
Batch B1H1135 - NO PREP										
Duplicate (B1H1135-DUP1)					Source: Y108195-01 Prepared: 08/11/2021 Analyzed: 08/12/2021					
pH	7.95		pH Units		8.09			1.75	25	
Batch B1H1136 - Filter .45um non acidified										
Blank (B1H1136-BLK1)					Prepared: 08/11/2021 Analyzed: 08/12/2021					
Specific Conductance (EC)	0.00290	0.00500	mmhos/cm							
Duplicate (B1H1136-DUP1)					Source: Y108195-01 Prepared: 08/11/2021 Analyzed: 08/12/2021					
Specific Conductance (EC)	0.358	0.00500	mmhos/cm		0.355			1.07	25	

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Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568855 - 3550B

MSD (L 90042-MSD-L568855)		Source: Y108195-05			Prepared: 08/12/2021 Analyzed: 08/12/2021					
Fluoranthene	0.152	0.00265	mg/Kg	0.164	0.0105	86.2	30-130	10	30	
1-Methylnaphthalene	0.428	0.0024	"	0.164	0.287	85.9	30-130	1.1	30	
Pyrene	0.154	0.00194	"	0.164	0.0107	87.3	30-130	9.2	30	
Naphthalene	0.317	0.00234	"	0.164	0.185	80.4	30-130	1.9	30	
Fluorene	0.179	0.00251	"	0.164	0.0488	79.3	30-130	2.7	30	
Dibenz(a,h)anthracene	0.0889	0.0014	"	0.164	<0.00140	54.2	30-130	14.6	30	
Chrysene	0.134	0.00128	"	0.164	0.00374	79.4	30-130	9.2	30	
Benzo(k)fluoranthene	0.122	0.00243	"	0.164	<0.00243	74.3	30-130	11.5	30	
Indeno(1,2,3-cd)pyrene	0.0847	0.00172	"	0.164	<0.00172	51.6	30-130	14.1	30	
2-Methylnaphthalene	0.846	0.00271	"	0.164	0.674	105	30-130	3.6	30	
Benzo(b)fluoranthene	0.1	0.00069	"	0.164	0.0019	60.9	30-130	9.5	30	
Acenaphthene	0.166	0.00216	"	0.164	0.0426	75.2	30-130	5.2	30	
Anthracene	0.129	0.00213	"	0.164	0.00366	76.4	30-130	13	30	
Benzo(a)anthracene	0.14	0.00221	"	0.164	<0.00221	85.3	30-130	10.8	30	
Benzo(a)pyrene	0.125	0.000665	"	0.164	0.00148	76.2	30-130	10.6	30	
Surrogate: Nitrobenzene-d5	58.5		"	0.328	207	58.5	29-110			
Surrogate: 4-Terphenyl-d14	80.7		"	0.328	287	80.7	33-122			
Surrogate: 2-Fluorobiphenyl	73.7		"	0.328	266	73.7	33-115			

MS (L 90042-MS-L568855)		Source: Y108195-05			Prepared: 08/12/2021 Analyzed: 08/12/2021					
Chrysene	0.147	0.00128	mg/Kg	0.166	0.00374	86.3	30-130			
Benzo(k)fluoranthene	0.137	0.00243	"	0.166	<0.00243	82.5	30-130			
Pyrene	0.169	0.00194	"	0.166	0.0107	95.3	30-130			
Naphthalene	0.311	0.00234	"	0.166	0.185	75.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0976	0.00172	"	0.166	<0.00172	58.7	30-130			
Fluorene	0.184	0.00251	"	0.166	0.0488	81.4	30-130			
Fluoranthene	0.168	0.00265	"	0.166	0.0105	94.8	30-130			

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568855 - 3550B

MS (L 90042-MS-L568855)		Source: Y108195-05			Prepared: 08/12/2021 Analyzed: 08/12/2021					
2-Methylnaphthalene	0.816	0.00271	mg/Kg	0.166	0.674	85.5	30-130			
Dibenz(a,h)anthracene	0.103	0.0014	"	0.166	<0.00140	62	30-130			
Benzo(b)fluoranthene	0.11	0.00069	"	0.166	0.0019	66.2	30-130			
Acenaphthene	0.175	0.00216	"	0.166	0.0426	79.7	30-130			
Anthracene	0.147	0.00213	"	0.166	0.00366	86.3	30-130			
Benzo(a)anthracene	0.156	0.00221	"	0.166	<0.00221	93.9	30-130			
Benzo(a)pyrene	0.139	0.000665	"	0.166	0.00148	83.7	30-130			
1-Methylnaphthalene	0.423	0.0024	"	0.166	0.287	81.9	30-130			
Surrogate: Nitrobenzene-d5	63.4		"	0.331	207	63.4	29-110			
Surrogate: 2-Fluorobiphenyl	83.6		"	0.331	266	83.6	33-115			
Surrogate: 4-Terphenyl-d14	88.5		"	0.331	287	88.5	33-122			

LCS (LCS-L568855)		Prepared: 08/12/2021 Analyzed: 08/12/2021								
Indeno(1,2,3-cd)pyrene	0.0972	0.000344	mg/Kg	0.167		58.2	30-130			
2-Methylnaphthalene	0.1	0.000542	"	0.167		59.8	30-130			
Benzo(k)fluoranthene	0.122	0.000486	"	0.167		73	30-130			
Acenaphthene	0.112	0.000431	"	0.167		67	30-130			
Anthracene	0.125	0.000426	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.131	0.000441	"	0.167		78.4	30-130			
Benzo(a)pyrene	0.122	0.000133	"	0.167		73	30-130			
Benzo(b)fluoranthene	0.109	0.000138	"	0.167		65.2	30-130			
Chrysene	0.126	0.000256	"	0.167		75.4	30-130			
Dibenz(a,h)anthracene	0.104	0.000279	"	0.167		62.2	30-130			
Fluoranthene	0.129	0.000529	"	0.167		77.2	30-130			
1-Methylnaphthalene	0.101	0.00048	"	0.167		60.4	30-130			
Naphthalene	0.101	0.000467	"	0.167		60.4	30-130			
Pyrene	0.132	0.000387	"	0.167		79	30-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568855 - 3550B

LCS (LCS-L568855)

Prepared: 08/12/2021 Analyzed: 08/12/2021

Fluorene	0.116	0.000501	mg/Kg	0.167		69.4	30-130			
Surrogate: 4-Terphenyl-d14	82.2		"	0.333		82.2	33-122			
Surrogate: Nitrobenzene-d5	64.2		"	0.333		64.2	29-110			
Surrogate: 2-Fluorobiphenyl	77.7		"	0.333		77.7	33-115			

LRB (LRB-L568855)

Prepared: 08/12/2021 Analyzed: 08/12/2021

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
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	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	74.1		"	0.333		74.1	33-115			
Surrogate: 4-Terphenyl-d14	84.6		"	0.333		84.6	33-122			
Surrogate: Nitrobenzene-d5	60.6		"	0.333		60.6	29-110			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568972 -										
DUP (L 90046-DUP)	Source: Y108195-09				Prepared: Analyzed: 08/13/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 90046-MS)	Source: Y108195-09				Prepared: Analyzed: 08/13/2021					
Chromium, Hexavalent	5.68	0.244	mg/Kg	7.92	<0.244	72	75-125			*
LRB (LRB)					Prepared: Analyzed: 08/13/2021					
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: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568870 - 3050B										
MSD (L 90063-MSD-L568870)			Source: 90063		Prepared: 08/12/2021 Analyzed: 08/20/2021					
Copper	4.59	0.0806	mg/Kg	2.42	2.36	92	75-125	0.8	80	
Zinc	37.1	0.534	"	24.2	14.3	94	75-125	4.7	80	
Silver	0.485	0.0067	"	0.483	0.00986	100	75-125	3.1	80	
Selenium	5.03	0.103	"	4.83	0.204	104	75-125	8.4	80	
Lead	7.45	0.031	"	2.42	5.15	95	75-125	1.9	80	
Cadmium	0.471	0.0259	"	0.483	0.0357	97	75-125	0.4	80	
Barium	13.9	0.042	"	4.83	8.25	117	75-125	2.8	80	
Arsenic	5.55	0.0855	"	2.42	3.14	100	75-125	6.8	80	
Nickel	6.26	0.0633	"	2.42	4.14	88	75-125	9.8	80	
MS (L 90063-MS-L568870)			Source: 90063		Prepared: 08/12/2021 Analyzed: 08/22/2021					
Nickel	6.91	0.0633	mg/Kg	2.44	4.14	114	75-125			
Arsenic	5.18	0.0855	"	2.44	3.14	84	75-125			
Barium	14.3	0.042	"	4.88	8.25	124	75-125			
Cadmium	0.473	0.0259	"	0.488	0.0357	97	75-125			
Zinc	38.9	0.534	"	24.4	14.3	101	75-125			
Lead	7.6	0.031	"	2.44	5.15	100	75-125			
Selenium	4.62	0.103	"	4.88	0.204	95	75-125			
Silver	0.47	0.0067	"	0.488	0.00986	96	75-125			
Copper	4.63	0.0806	"	2.44	2.36	93	75-125			
LCS (LCS-L568870)			Prepared: 08/12/2021 Analyzed: 08/20/2021							
Selenium	5.46	0.103	mg/Kg	5		109	80-120			
Silver	0.476	0.0067	"	0.5		95	80-120			
Arsenic	2.69	0.0855	"	2.5		108	80-120			
Nickel	2.68	0.0633	"	2.5		107	80-120			
Lead	2.66	0.031	"	2.5		106	80-120			

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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568870 - 3050B

LCS (LCS-L568870)

Prepared: 08/12/2021 Analyzed: 08/20/2021

Copper	2.61	0.0806	mg/Kg	2.5		104	80-120			
Zinc	26.7	0.534	"	25		107	80-120			
Cadmium	0.53	0.0259	"	0.5		106	80-120			
Barium	5.1	0.042	"	5		102	80-120			

LRB (LRB-L568870)

Prepared: 08/12/2021 Analyzed: 08/20/2021

Zinc	ND	2.5	mg/Kg				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	0.0972	0.25	"				-			J
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 L568970 -										
DUP (L 88461-DUP)		Source: 88461			Prepared: Analyzed: 08/13/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 88461-MS)		Source: 88461			Prepared: Analyzed: 08/13/2021					
Chromium, Hexavalent	3.24	0.244	mg/Kg	7.72	<0.244	42	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/13/2021					
Chromium, Hexavalent	6.16	0.244	mg/Kg	8		77	75-125			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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.

September 08, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Anderson UPRR 32-9A**Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A received by Origins Laboratory, Inc. September 01, 2021. This project is associated with Origins project number Y109033-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-N01@5'	Y109033-01	Soil	September 1, 2021 14:30	09/01/2021 17:14
SEP01-E01@5'	Y109033-02	Soil	September 1, 2021 14:32	09/01/2021 17:14
SEP01-E02@5'	Y109033-03	Soil	September 1, 2021 14:34	09/01/2021 17:14
SEP01-S01@5'	Y109033-04	Soil	September 1, 2021 14:36	09/01/2021 17:14
SEP01-W01@5'	Y109033-05	Soil	September 1, 2021 14:38	09/01/2021 17:14
SEP01-W02@5'	Y109033-06	Soil	September 1, 2021 14:40	09/01/2021 17:14
SEP01-B01@9'	Y109033-07	Soil	September 1, 2021 14:42	09/01/2021 17:14
SEP01-B02@9'	Y109033-08	Soil	September 1, 2021 14:44	09/01/2021 17:14

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y109033

Client: KMG/WSP

Client Project ID: Anderson

Checklist Completed by: jm

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

Date/time completed: 9-1-21

Airbill #: VI/A

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

Cooler Number/Temperature: 1 / 18.5 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1003

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) Brian Sulzberger Date/Time Reviewed _____

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-N01@5'
9/1/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	42.2		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.0 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.432		0.0500	mg/kg	25	B110125	09/01/2021	09/01/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	09/01/2021	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00754		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	29.2		5.00	"	25	"	"	09/01/2021	

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " 09/01/2021
Surrogate: Toluene-d8 96.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	0.0403	0.00048	0.00067	mg/Kg	1	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.101	0.000542	0.00067	"	"	"	"	"	
Naphthalene	0.0193	0.000467	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-N01@5'

9/1/2021 2:30:00PM

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

Y109033-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	60.4 %		33-115			L572575	09/03/2021	09/03/2021	
Surrogate: 4-Terphenyl-d14	72.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.6 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	3.32	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021	
Lead	8.87	0.031	0.25	"	"	"	"	"	
Selenium	0.358	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-E01@5'
9/1/2021 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	118		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.1 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	6.27		0.0500	mg/kg	25	B110125	09/01/2021	09/01/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	09/01/2021	U
Benzene	0.0311		0.00200	"	"	"	"	"	
Ethylbenzene	0.592		0.0500	"	25	"	"	09/01/2021	
Gasoline Range Hydrocarbons	207		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " 09/01/2021
Surrogate: Toluene-d8 92.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 205 % 70-130 " " " S-04

PAH by 8270D SIM

1-Methylnaphthalene	0.0964	0.0024	0.00335	mg/Kg	5	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.24	0.00271	0.00335	"	"	"	"	"	
Naphthalene	0.0841	0.00234	0.00335	"	"	"	"	"	

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-E01@5'
9/1/2021 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109033-02 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	58.1 %		33-115			L572575	09/03/2021	09/03/2021	
Surrogate: 4-Terphenyl-d14	74.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.8 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	3.01	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021	
Lead	9.68	0.031	0.25	"	"	"	"	"	
Selenium	0.334	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-E02@5'

9/1/2021 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00790		0.00200	mg/kg	1	B110125	09/01/2021	09/02/2021	
1,3,5-Trimethylbenzene	0.00308		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	09/01/2021	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.58		0.200	"	"	"	"	09/02/2021	

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " 09/01/2021
Surrogate: Toluene-d8 95.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	0.00402	0.0024	0.00335	mg/Kg	5	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.00803	0.00271	0.00335	"	"	"	"	"	

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-E02@5'

9/1/2021 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109033-03 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00234	0.00335	mg/Kg	5	L572575	09/03/2021	09/03/2021
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Surrogate: 2-Fluorobiphenyl	70.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	76.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	58.9 %		29-110			"	"	"

Total Metals by 6020B

Arsenic	2.59	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021
Lead	6.35	0.031	0.25	"	"	"	"	"
Selenium	0.289	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-S01@5'
9/1/2021 2:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.5		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.4 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.209		0.0500	mg/kg	25	B110125	09/01/2021	09/01/2021	
1,3,5-Trimethylbenzene	0.146		0.0500	"	"	"	"	"	
Benzene	ND		0.00200	"	1	"	"	09/01/2021	U
Ethylbenzene	0.00418		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	14.7		5.00	"	25	"	"	09/01/2021	

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " 09/01/2021
Surrogate: Toluene-d8 96.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 120 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	0.0181	0.0048	0.0067	mg/Kg	10	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.0387	0.00542	0.0067	"	"	"	"	"	
Naphthalene	ND	0.00467	0.0067	"	"	"	"	"	

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-S01@5'

9/1/2021 2:36:00PM

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

Y109033-04 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	70.9 %		33-115			L572575	09/03/2021	09/03/2021	
Surrogate: 4-Terphenyl-d14	73.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.2 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	2.88	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021	
Lead	9.25	0.031	0.25	"	"	"	"	"	
Selenium	0.345	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-W01@5'

9/1/2021 2:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.9 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B110125	09/01/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	ND	0.000542	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-W01@5'

9/1/2021 2:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109033-05 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.000467	0.00067	mg/Kg	1	L572575	09/03/2021	09/03/2021
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Surrogate: 2-Fluorobiphenyl	66.6 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	75.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	56 %		29-110			"	"	"

Total Metals by 6020B

Arsenic	2.15	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021
Lead	9.43	0.031	0.25	"	"	"	"	"
Selenium	0.276	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-W02@5'

9/1/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	59.1		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.5 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	4.65		0.0500	mg/kg	25	B110125	09/01/2021	09/02/2021	
1,3,5-Trimethylbenzene	2.51		0.0500	"	"	"	"	"	
Benzene	0.0138		0.00200	"	1	"	"	09/01/2021	
Ethylbenzene	0.770		0.0500	"	25	"	"	09/02/2021	
Gasoline Range Hydrocarbons	215		5.00	"	"	"	"	09/01/2021	

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	131 %		70-130			"	"	"	S-04

PAH by 8270D SIM

1-Methylnaphthalene	0.122	0.0024	0.00335	mg/Kg	5	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.314	0.00271	0.00335	"	"	"	"	"	
Naphthalene	0.086	0.00234	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-W02@5'

9/1/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109033-06 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	77 %		33-115			L572575	09/03/2021	09/03/2021	
Surrogate: 4-Terphenyl-d14	80.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.5 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	2.49	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021	
Lead	10.1	0.031	0.25	"	"	"	"	"	
Selenium	0.256	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-B01@9'

9/1/2021 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.1 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00840		0.00200	mg/kg	1	B110125	09/01/2021	09/02/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.256		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " 09/02/2021
Surrogate: Toluene-d8 95.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	0.00137	0.00048	0.00067	mg/Kg	1	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.00336	0.000542	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-B01@9'

9/1/2021 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109033-07 (Soil)

PAH by 8270D SIM

Naphthalene	0.000905	0.000467	0.00067	mg/Kg	1	L572575	09/03/2021	09/03/2021
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Surrogate: 2-Fluorobiphenyl	84 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	87.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	69.3 %		29-110			"	"	"

Total Metals by 6020B

Arsenic	1.49	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021
Lead	7.47	0.031	0.25	"	"	"	"	"
Selenium	0.31	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-B02@9'

9/1/2021 2:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109033-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B110124	09/01/2021	09/02/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.4 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	1.35		0.0500	mg/kg	25	B110125	09/01/2021	09/02/2021	
1,3,5-Trimethylbenzene	1.01		0.0500	"	"	"	"	"	
Benzene	0.00560		0.00200	"	1	"	"	09/02/2021	
Ethylbenzene	0.332		0.0500	"	25	"	"	09/02/2021	
Gasoline Range Hydrocarbons	82.8		5.00	"	"	"	"	09/02/2021	

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	122 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0303	0.0024	0.00335	mg/Kg	5	L572575	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.0745	0.00271	0.00335	"	"	"	"	"	
Naphthalene	0.0287	0.00234	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

SEP01-B02@9'

9/1/2021 2:44:00PM

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

Y109033-08 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	88.6 %		33-115			L572575	09/03/2021	09/03/2021	
Surrogate: 4-Terphenyl-d14	88.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	69.3 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	1.78	0.0855	0.25	mg/Kg	5	L572578	"	09/08/2021	
Lead	7.95	0.031	0.25	"	"	"	"	"	
Selenium	0.271	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A

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 B1I0124 - EPA 3550B										
Blank (B1I0124-BLK1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	25.0		66.9	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 B1I0124 - EPA 3550B

LCS (B1I0124-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	822	50.0	mg/kg	1000		82.2	70-130			
Residual Range Organics (C28-C40)	821	200	"	1000		82.1	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.6	50-150			

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A

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 B110124 - EPA 3550B

Matrix Spike (B110124-MS1)		Source: Y109032-05			Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	915	50.0	mg/kg	1000	ND	91.5	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000	ND	97.7	70-130			
Surrogate: o-Terphenyl	43		"	50.0		85.6	50-150			

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 B110124 - EPA 3550B

Matrix Spike Dup (B110124-MSD1)		Source: Y109032-05			Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	850	50.0	mg/kg	1000	ND	85.0	70-130	7.41	35	
Residual Range Organics (C28-C40)	837	200	"	1000	ND	83.7	70-130	15.4	35	
Surrogate: o-Terphenyl	40		"	50.0		79.3	50-150			

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 B110125 - EPA 5030 (soil)										
Blank (B110125-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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 B1I0125 - EPA 5030 (soil)										
LCS (B1I0125-BS1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0450	0.00200	mg/kg	0.0500		90.0	70-130			
Naphthalene	0.0551	0.0100	"	0.0500		110	70-130			
1,3,5-Trimethylbenzene	0.0452	0.00200	"	0.0500		90.4	70-130			
Benzene	0.0543	0.00200	"	0.0500		109	70-130			
Ethylbenzene	0.0452	0.00200	"	0.0500		90.4	70-130			
m,p-Xylene	0.0919	0.00400	"	0.100		91.9	70-130			
o-Xylene	0.0471	0.00200	"	0.0500		94.2	70-130			
Toluene	0.0475	0.00200	"	0.0500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 B110125 - EPA 5030 (soil)

Matrix Spike (B110125-MS1)		Source: Y109022-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0351	0.00200	mg/kg	0.0500	ND	70.1	70-130			
Naphthalene	0.0386	0.0100	"	0.0500	0.00102	75.1	70-130			
1,3,5-Trimethylbenzene	0.0351	0.00200	"	0.0500	ND	70.2	70-130			
Benzene	0.0445	0.00200	"	0.0500	ND	89.0	70-130			
Ethylbenzene	0.0365	0.00200	"	0.0500	ND	73.0	70-130			
m,p-Xylene	0.0735	0.00400	"	0.100	ND	73.5	70-130			
o-Xylene	0.0379	0.00200	"	0.0500	ND	75.8	70-130			
Toluene	0.0379	0.00200	"	0.0500	ND	75.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 B110125 - EPA 5030 (soil)										
Matrix Spike Dup (B110125-MSD1)	Source: Y109022-01				Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0360	0.00200	mg/kg	0.0500	ND	72.0	70-130	2.70	20	
Naphthalene	0.0394	0.0100	"	0.0500	0.00102	76.8	70-130	2.21	20	
1,3,5-Trimethylbenzene	0.0363	0.00200	"	0.0500	ND	72.6	70-130	3.31	20	
Benzene	0.0461	0.00200	"	0.0500	ND	92.3	70-130	3.62	20	
Ethylbenzene	0.0375	0.00200	"	0.0500	ND	75.0	70-130	2.59	20	
m,p-Xylene	0.0757	0.00400	"	0.100	ND	75.7	70-130	2.87	20	
o-Xylene	0.0389	0.00200	"	0.0500	ND	77.8	70-130	2.61	20	
Toluene	0.0392	0.00200	"	0.0500	ND	78.4	70-130	3.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 L572575 - 3550B

MSD (L 98411-MSD-L572575)			Source: 98411			Prepared: 09/03/2021 Analyzed: 09/03/2021				
2-Methylnaphthalene	0.11	0.000542	mg/Kg	0.166	<0.000542	66.2	30-130	7.5	30	
Naphthalene	0.107	0.000467	"	0.166	<0.000467	64.4	30-130	6.9	30	
1-Methylnaphthalene	0.108	0.00048	"	0.166	<0.000480	65	30-130	7.6	30	
Surrogate: 2-Fluorobiphenyl	66.8		"	0.332	197	66.8	33-115			
Surrogate: 4-Terphenyl-d14	75.9		"	0.332	228	75.9	33-122			
Surrogate: Nitrobenzene-d5	59		"	0.332	173	59	29-110			
MS (L 98411-MS-L572575)			Source: 98411			Prepared: 09/03/2021 Analyzed: 09/03/2021				
1-Methylnaphthalene	0.1	0.00048	mg/Kg	0.167	<0.000480	59.8	30-130			
Naphthalene	0.0998	0.000467	"	0.167	<0.000467	59.7	30-130			
2-Methylnaphthalene	0.102	0.000542	"	0.167	<0.000542	61	30-130			
Surrogate: Nitrobenzene-d5	66.9		"	0.333	173	66.9	29-110			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333	197	81.9	33-115			
Surrogate: 4-Terphenyl-d14	84		"	0.333	228	84	33-122			
LCS (LCS-L572575)			Prepared: 09/03/2021 Analyzed: 09/03/2021							
1-Methylnaphthalene	0.0978	0.00048	mg/Kg	0.167		58.5	30-130			
Naphthalene	0.0984	0.000467	"	0.167		58.9	30-130			
2-Methylnaphthalene	0.1	0.000542	"	0.167		59.8	30-130			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			
Surrogate: 2-Fluorobiphenyl	73.2		"	0.333		73.2	33-115			

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 L572575 - 3550B

LRB (LRB-L572575)

Prepared: 09/03/2021 Analyzed: 09/03/2021

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333	76.2		33-122			
Surrogate: Nitrobenzene-d5	63.3		"	0.333	63.3		29-110			
Surrogate: 2-Fluorobiphenyl	76.2		"	0.333	76.2		33-115			

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A

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 L572578 - 3050B										
MSD (L 98438-MSD-L572578)			Source: 98438		Prepared: 09/03/2021 Analyzed: 09/08/2021					
Arsenic	6.25	0.0855	mg/Kg	2.43	1.01	215	75-125	79	80	*
Lead	5.24	0.031	"	2.43	2.06	131	75-125	20.6	80	*
Selenium	4.44	0.103	"	4.87	0.207	91	75-125	3.1	80	
MS (L 98438-MS-L572578)			Source: 98438		Prepared: 09/03/2021 Analyzed: 09/08/2021					
Selenium	4.58	0.103	mg/Kg	4.78	0.207	96	75-125			
Lead	4.26	0.031	"	2.39	2.06	92	75-125			
Arsenic	2.71	0.0855	"	2.39	1.01	71	75-125			*
LCS (LCS-L572578)			Prepared: 09/03/2021 Analyzed: 09/08/2021							
Lead	2.47	0.031	mg/Kg	2.5		99	80-120			
Selenium	5.33	0.103	"	5		107	80-120			
Arsenic	2.5	0.0855	"	2.5		100	80-120			
LRB (LRB-L572578)			Prepared: 09/03/2021 Analyzed: 09/08/2021							
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A

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.

* 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 15, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA Project Number - 31403177.142.05

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. September 10, 2021. This project is associated with Origins project number Y109206-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-N02@5'	Y109206-01	Soil	September 10, 2021 12:00	09/10/2021 15:20
Sep01-E03@5'	Y109206-02	Soil	September 10, 2021 12:00	09/10/2021 15:20
Sep01-E04@5'	Y109206-03	Soil	September 10, 2021 12:00	09/10/2021 15:20
Sep01-S02@5'	Y109206-04	Soil	September 10, 2021 12:00	09/10/2021 15:20
Sep01-B03@12'	Y109206-05	Soil	September 10, 2021 12:00	09/10/2021 15:20
Sep01-B04@12'	Y109206-06	Soil	September 10, 2021 12:10	09/10/2021 15:20
Sep01-B05@12'	Y109206-07	Soil	September 10, 2021 12:10	09/10/2021 15:20

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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ORIGINS
LABORATORY, INC

1109206

page

of

Client: WSP
Address: 4600 W 60th Ave
Arvada Co 80003
Project Manager: Brian Sulzberger
Project Name: Anderson UPRR 32-9A UP O SA
Project Number: 31403177.142.05
Samples Collected By: RS

Telephone Number: KMG Group
Email Address: KMG Group

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa		
Sep01-10205	9-10-21	1200	2	X								1
Sep01-E0305		1202	2	X								2
Sep01-E0405		1204	2	X								3
Sep01-S0205		1206	2	X								4
Sep01-B03012		1208	2	X								5
Sep01-B04012		1210	2	X								6
Sep01-B05012		1212	2	X								7
												8
												9
												10

Relinquished By: Brian Sulzberger Date: 9-10-21 Time: 1520
 Relinquished By: [Signature] Date: 9-10-21 Time: 1520
 Received By: [Signature] Date: 9/10/21 Time: 1520
 Received By: [Signature] Date: 9/10/21 Time: 1520
 Turnaround Time: ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

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

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 71109206

Client: WSP

Client Project ID: Anderson UPRR 32-9A

Checklist Completed by: JG

Date/time completed: 9/10/21

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, 15.7 °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⁾ ?		<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) [Signature]

Date/Time Reviewed 9/10/21

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N02@5'

9/10/2021 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109206-01 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B111026	09/10/2021	09/10/2021	U
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Surrogate: 1,2-Dichloroethane-d4	96.2 %		70-130			"	"	"
Surrogate: Toluene-d8	93.2 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0033	0.0067	mg/Kg	10	L573874	09/14/2021	09/14/2021
2-Methylnaphthalene	ND	0.0039	0.0067	"	"	"	"	"
Naphthalene	ND	0.00467	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	79.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	98.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	84.2 %		29-110			"	"	"

Total Metals by 6020B

Arsenic	1.64	0.0855	0.25	mg/Kg	5	L573728	09/13/2021	09/14/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E03@5'

9/10/2021 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109206-02 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0169		0.00200	mg/kg	1	B111026	09/10/2021	09/10/2021	
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	89.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	139 %		70-130			"	"	"	S-04

PAH by 8270D SIM

1-Methylnaphthalene	0.00074	0.00033	0.00067	mg/Kg	1	L573874	09/14/2021	09/14/2021	
2-Methylnaphthalene	0.00176	0.00039	0.00067	"	"	"	"	"	
Naphthalene	0.000817	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	97 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	80.1 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	2.6	0.0855	0.25	mg/Kg	5	L573728	09/13/2021	09/14/2021	
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Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E04@5'

9/10/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109206-03 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.488		0.0500	mg/kg	25	B111026	09/10/2021	09/13/2021	
Benzene	ND		0.00200	"	1	"	"	09/10/2021	U

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	321 %		70-130			"	"	"	S-04

PAH by 8270D SIM

1-Methylnaphthalene	0.0497	0.00033	0.00067	mg/Kg	1	L573874	09/14/2021	09/14/2021	
2-Methylnaphthalene	0.0756	0.00039	0.00067	"	"	"	"	"	
Naphthalene	0.0223	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	74.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	95.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	73.9 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	2.23	0.0855	0.25	mg/Kg	5	L573728	09/13/2021	09/14/2021	
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Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-S02@5'

9/10/2021 12:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109206-04 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00706		0.00200	mg/kg	1	B111026	09/10/2021	09/13/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %		70-130			"	"	09/10/2021	
Surrogate: Toluene-d8	92.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00165	0.00335	mg/Kg	5	L573874	09/14/2021	09/14/2021	
2-Methylnaphthalene	ND	0.00195	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	99.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	68.6 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	2.49	0.0855	0.25	mg/Kg	5	L573728	09/13/2021	09/14/2021	
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B03@12'

9/10/2021 12:08:00PM

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

Y109206-05 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B111026	09/10/2021	09/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L573874	09/14/2021	09/14/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	92 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	78.8 %	29-110	"	"	"

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B04@12'

9/10/2021 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109206-06 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00216		0.00200	mg/kg	1	B111026	09/10/2021	09/10/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L573874	09/14/2021	09/14/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	87.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	73.1 %		29-110			"	"	"	

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B05@12'

9/10/2021 12:12:00PM

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

Y109206-07 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0223	0.00200	mg/kg	1	B111026	09/10/2021	09/10/2021
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Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111026 - EPA 5030 (soil)										
Blank (B111026-BLK1)					Prepared: 09/10/2021 Analyzed: 09/10/2021					
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		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111026 - EPA 5030 (soil)

LCS (B111026-BS1)

Prepared: 09/10/2021 Analyzed: 09/10/2021

1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500		89.8	70-130			
Naphthalene	0.0506	0.0100	"	0.0500		101	70-130			
1,3,5-Trimethylbenzene	0.0436	0.00200	"	0.0500		87.2	70-130			
Benzene	0.0528	0.00200	"	0.0500		106	70-130			
Ethylbenzene	0.0454	0.00200	"	0.0500		90.8	70-130			
m,p-Xylene	0.0930	0.00400	"	0.100		93.0	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		93.9	70-130			
Toluene	0.0481	0.00200	"	0.0500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111026 - EPA 5030 (soil)

Matrix Spike (B111026-MS1)		Source: Y109202-01			Prepared: 09/10/2021 Analyzed: 09/10/2021					
1,2,4-Trimethylbenzene	0.0440	0.00200	mg/kg	0.0500	ND	88.1	70-130			
Naphthalene	0.0429	0.0100	"	0.0500	0.00144	82.9	70-130			
1,3,5-Trimethylbenzene	0.0426	0.00200	"	0.0500	ND	85.2	70-130			
Benzene	0.0522	0.00200	"	0.0500	ND	104	70-130			
Ethylbenzene	0.0453	0.00200	"	0.0500	ND	90.5	70-130			
m,p-Xylene	0.0926	0.00400	"	0.100	ND	92.6	70-130			
o-Xylene	0.0465	0.00200	"	0.0500	ND	93.0	70-130			
Toluene	0.0476	0.00200	"	0.0500	ND	95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111026 - EPA 5030 (soil)

Matrix Spike Dup (B111026-MSD1)		Source: Y109202-01			Prepared: 09/10/2021 Analyzed: 09/10/2021					
1,2,4-Trimethylbenzene	0.0488	0.00200	mg/kg	0.0500	ND	97.6	70-130	10.3	20	
Naphthalene	0.0481	0.0100	"	0.0500	0.00144	93.4	70-130	11.6	20	
1,3,5-Trimethylbenzene	0.0473	0.00200	"	0.0500	ND	94.6	70-130	10.5	20	
Benzene	0.0576	0.00200	"	0.0500	ND	115	70-130	9.80	20	
Ethylbenzene	0.0496	0.00200	"	0.0500	ND	99.1	70-130	9.07	20	
m,p-Xylene	0.102	0.00400	"	0.100	ND	102	70-130	9.60	20	
o-Xylene	0.0515	0.00200	"	0.0500	ND	103	70-130	10.2	20	
Toluene	0.0525	0.00200	"	0.0500	ND	105	70-130	9.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L573874 - 3550B

MSD (L 86410-MSD-L573874)			Source: 86410			Prepared: 09/14/2021 Analyzed: 09/14/2021				
Naphthalene	0.0839	0.000467	mg/Kg	0.166	86410	50.5	30-130	7	30	
2-Methylnaphthalene	0.0889	0.00039	"	0.166	0.000455	53.5	30-130	6.8	30	
1-Methylnaphthalene	0.089	0.00033	"	0.166	0.000479	53.6	30-130	6.1	30	
Surrogate: Nitrobenzene-d5	66.4		"	0.331	230	66.4	29-110			
Surrogate: 4-Terphenyl-d14	74.9		"	0.331	246	74.9	33-122			
Surrogate: 2-Fluorobiphenyl	61.9		"	0.331	211	61.9	33-115			
MS (L 86410-MS-L573874)			Source: 86410			Prepared: 09/14/2021 Analyzed: 09/14/2021				
Naphthalene	0.0782	0.000467	mg/Kg	0.163	86410	47.9	30-130			
1-Methylnaphthalene	0.0837	0.00033	"	0.163	0.000479	51.3	30-130			
2-Methylnaphthalene	0.083	0.00039	"	0.163	0.000455	50.9	30-130			
Surrogate: 4-Terphenyl-d14	77.3		"	0.327	246	77.3	33-122			
Surrogate: 2-Fluorobiphenyl	63.3		"	0.327	211	63.3	33-115			
Surrogate: Nitrobenzene-d5	68.8		"	0.327	230	68.8	29-110			
LCS (LCS-L573874)			Prepared: 09/14/2021 Analyzed: 09/14/2021							
2-Methylnaphthalene	0.0978	0.00039	mg/Kg	0.167		58.5	30-130			
1-Methylnaphthalene	0.0981	0.00033	"	0.167		58.7	30-130			
Naphthalene	0.0948	0.000467	"	0.167		56.7	30-130			
Surrogate: Nitrobenzene-d5	81		"	0.333		81	29-110			
Surrogate: 4-Terphenyl-d14	89.4		"	0.333		89.4	33-122			
Surrogate: 2-Fluorobiphenyl	71.1		"	0.333		71.1	33-115			

Origins Laboratory, Inc.

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L573874 - 3550B

LRB (LRB-L573874)

Prepared: 09/14/2021 Analyzed: 09/14/2021

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	76.5		"	0.333	76.5		29-110			
Surrogate: 2-Fluorobiphenyl	70.8		"	0.333	70.8		33-115			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333	85.5		33-122			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L573728 - 3050B										
MSD (L 86734-MSD-L573728)		Source: 86734			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Arsenic	4.86	0.0855	mg/Kg	2.5	2.7	87	75-125	2	80	
MS (L 86734-MS-L573728)		Source: 86734			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Arsenic	4.76	0.0855	mg/Kg	2.45	2.7	84	75-125			
LCS (LCS-L573728)					Prepared: 09/13/2021 Analyzed: 09/14/2021					
Arsenic	2.63	0.0855	mg/Kg	2.5		105	80-120			
LRB (LRB-L573728)					Prepared: 09/13/2021 Analyzed: 09/14/2021					
Arsenic	ND	0.25	mg/Kg							

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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.

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 29, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA Project Number - 31403177.142.05

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. September 20, 2021. This project is associated with Origins project number Y109390-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-B06@14'	Y109390-01	Soil	September 20, 2021 13:31	09/20/2021 17:48
Sep01-N03@8'	Y109390-02	Soil	September 20, 2021 13:36	09/20/2021 17:48
Native-BG02@6'	Y109390-03	Soil	September 20, 2021 10:25	09/20/2021 17:48
Native-BG02@12'	Y109390-04	Soil	September 20, 2021 10:40	09/20/2021 17:48
Native-BG03@6'	Y109390-05	Soil	September 20, 2021 10:05	09/20/2021 17:48
Native-BG03@12'	Y109390-06	Soil	September 20, 2021 10:08	09/20/2021 17:48
Native-BG04@6'	Y109390-07	Soil	September 20, 2021 10:18	09/20/2021 17:48
Native-BG04@12'	Y109390-08	Soil	September 20, 2021 10:32	09/20/2021 17:48

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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4109390

page 1 of 2

ORIGINS
LABORATORY, INC

Client: WSP USA

Address: 4600 W 60th Ave

Arvada, CO 80003

Project Manager: Brian Sulzberger

Project Name: Anderson UPRR 32-9A UP O SA Facility

Project Number: 31403177.142

Telephone Number:

Email Address: kmg@wsp

Samples Collected By: AE

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	Air Summa	Other	915 metals	Barium	TH EC 546 (SP)	
Valve-BL02-06-1	9-20-21	1045	2	X					X				X		Groundwater Injection 1
Valve-BL02-06-10		1040	2	X					X				X		2
Valve-BL03-06-1		1005	2	X					X				X		3
Valve-BL03-06-12		1008	2	X					X				X		4
Valve-BL04-06-1		1018	2	X					X				X		5
Valve-BL04-06-12		1032	2	X					X				X		6
															7
															8
															9
															10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
John Pellegri	9/20/21	1743	AE	9/20/21	1743	24 Hr
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Standard

Date Results Needed

Temp Received: 5.0

Origins Laboratory, Inc.

Jefe Pellegri

Jen Pellegri For Noelle Doyle Mathis, President

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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 41021396

Client: WSP

Client Project ID: Anderson UPRR 32-9A UP O SA

Checklist Completed by: KH

Shipped Via: HD

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

Date/time completed: 7/20/11

Airbill #: NA

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 5.16 °C / °C / °C / °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 type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" 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)

Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B06@14'

9/20/2021 1:31:00PM

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

Y109390-01 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0214	0.00200	mg/kg	1	B111715	09/20/2021	09/20/2021
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	97.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N03@8'

9/20/2021 1:36:00PM

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

Y109390-02 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0890		0.0500	mg/kg	25	B112005	09/20/2021	09/20/2021	
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Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0192	0.00033	0.00067	mg/Kg	1	L575408	09/22/2021	09/22/2021	
2-Methylnaphthalene	0.0289	0.00039	0.00067	"	"	"	"	"	
Naphthalene	0.00678	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	95.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	105 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	86.7 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	2.43	0.0855	0.25	mg/Kg	5	L575438	"	09/23/2021	
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG02@6'

9/20/2021 10:25:00AM

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

Y109390-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.539	0.200	mg/L	1	B1I2121	09/21/2021	09/22/2021
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Metals by Saturated Paste

Calcium	4.45	0.499	meq/L	10	[CALC]	09/22/2021	09/22/2021
Magnesium	2.08	0.823	"	"	"	"	"
Sodium	2.18	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.36		pH Units	1	B1I2201	09/22/2021	09/22/2021
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SAR by 20B Saturated Paste

SAR	1.21		SAR	1	B1I2217	09/22/2021	09/22/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.869	0.00500	mmhos/cm	1	B1I2214	09/22/2021	09/22/2021
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Total Metals by 6020B

Arsenic	2.17	0.0855	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021
Barium	107	0.042	0.25	"	"	"	"	"
Cadmium	0.125	0.0259	0.25	"	"	"	"	"
Copper	9.42	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG02@6'

9/20/2021 10:25:00AM

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

Y109390-03 (Soil)

Total Metals by 6020B

Lead	8.73	0.031	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021	
Nickel	9.56	0.0633	0.25	"	"	"	"	"	
Selenium	0.215	0.103	0.25	"	"	"	"	"	J
Silver	0.0558	0.0067	0.25	"	"	"	"	"	J
Zinc	36.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L575524	09/20/2021	09/23/2021	
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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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG02@12'

9/20/2021 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y109390-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.496	0.198	mg/L	1	B1I2121	09/21/2021	09/22/2021
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Metals by Saturated Paste

Calcium	3.47	0.499	meq/L	10	[CALC]	09/22/2021	09/22/2021
Magnesium	1.62	0.823	"	"	"	"	"
Sodium	2.08	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.52	pH Units	1	B1I2201	09/22/2021	09/22/2021
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SAR by 20B Saturated Paste

SAR	1.31	SAR	1	B1I2217	09/22/2021	09/22/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.719	0.00500	mmhos/cm	1	B1I2214	09/22/2021	09/22/2021
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Total Metals by 6020B

Arsenic	2.13	0.0855	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021
Barium	124	0.042	0.25	"	"	"	"	"
Cadmium	0.145	0.0259	0.25	"	"	"	"	"
Copper	9.29	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG02@12'

9/20/2021 10:40:00AM

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

Y109390-04 (Soil)

Total Metals by 6020B

Lead	8.16	0.031	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021	
Nickel	10	0.0633	0.25	"	"	"	"	"	
Selenium	0.234	0.103	0.25	"	"	"	"	"	J
Silver	0.0456	0.0067	0.25	"	"	"	"	"	J
Zinc	38.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L575524	09/20/2021	09/23/2021	
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG03@6'

9/20/2021 10:05:00AM

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

Y109390-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B112121	09/21/2021	09/22/2021	U
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Metals by Saturated Paste

Calcium	1.82	0.499	meq/L	10	[CALC]	09/22/2021	09/22/2021
Magnesium	1.02	0.823	"	"	"	"	"
Sodium	2.44	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.86	pH Units	1	B112201	09/22/2021	09/22/2021
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SAR by 20B Saturated Paste

SAR	2.05	SAR	1	B112217	09/22/2021	09/22/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.560	0.00500	mmhos/cm	1	B112214	09/22/2021	09/22/2021
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Total Metals by 6020B

Arsenic	0.426	0.0855	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021
Barium	3.91	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	0.837	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG03@6'

9/20/2021 10:05:00AM

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

Y109390-05 (Soil)

Total Metals by 6020B

Lead	0.874	0.031	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021	
Nickel	1	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	3.77	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L575524	09/20/2021	09/23/2021	
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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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG03@12'**9/20/2021 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109390-06 (Soil)**Boron (DTPA Sorbitol)**

Boron	ND	0.200	mg/L	1	B112121	09/21/2021	09/22/2021	U
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Metals by Saturated Paste

Calcium	2.10	0.499	meq/L	10	[CALC]	09/22/2021	09/22/2021
Magnesium	1.15	0.823	"	"	"	"	"
Sodium	2.42	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.77	pH Units	1	B112201	09/22/2021	09/22/2021
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SAR by 20B Saturated Paste

SAR	1.90	SAR	1	B112217	09/22/2021	09/22/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.589	0.00500	mmhos/cm	1	B112214	09/22/2021	09/22/2021
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Total Metals by 6020B

Arsenic	1.07	0.0855	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021
Barium	6.77	0.042	0.25	"	"	"	"	"
Cadmium	ND	0.0259	0.25	"	"	"	"	"
Copper	1.58	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG03@12'

9/20/2021 10:08:00AM

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

Y109390-06 (Soil)

Total Metals by 6020B

Lead	1.32	0.031	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021	
Nickel	1.54	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	5.06	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L575524	09/20/2021	09/23/2021	
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG04@6'

9/20/2021 10:18:00AM

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

Y109390-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.458	0.199	mg/L	1	B1I2121	09/21/2021	09/22/2021
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Metals by Saturated Paste

Calcium	3.69	0.499	meq/L	10	[CALC]	09/22/2021	09/22/2021
Magnesium	1.32	0.823	"	"	"	"	"
Sodium	3.48	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.54		pH Units	1	B1I2201	09/22/2021	09/22/2021
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SAR by 20B Saturated Paste

SAR	2.19		SAR	1	B1I2217	09/22/2021	09/22/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.845	0.00500	mmhos/cm	1	B1I2214	09/22/2021	09/22/2021
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Total Metals by 6020B

Arsenic	2.54	0.0855	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021
Barium	186	0.042	0.25	"	"	"	"	"
Cadmium	0.0984	0.0259	0.25	"	"	"	"	"
Copper	11.5	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG04@6'

9/20/2021 10:18:00AM

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

Y109390-07 (Soil)

Total Metals by 6020B

Lead	9.83	0.031	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021	
Nickel	13.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.22	0.103	0.25	"	"	"	"	"	J
Silver	0.0612	0.0067	0.25	"	"	"	"	"	J
Zinc	48.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L575539	09/20/2021	09/28/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG04@12'

9/20/2021 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y109390-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.337	0.198	mg/L	1	B1I2121	09/21/2021	09/22/2021
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Metals by Saturated Paste

Calcium	3.25	0.499	meq/L	10	[CALC]	09/22/2021	09/22/2021
Magnesium	1.02	0.823	"	"	"	"	"
Sodium	3.04	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.58	pH Units	1	B1I2201	09/22/2021	09/22/2021
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SAR by 20B Saturated Paste

SAR	2.08	SAR	1	B1I2217	09/22/2021	09/22/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.748	0.00500	mmhos/cm	1	B1I2214	09/22/2021	09/22/2021
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Total Metals by 6020B

Arsenic	1.15	0.0855	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021
Barium	56.6	0.042	0.25	"	"	"	"	"
Cadmium	0.111	0.0259	0.25	"	"	"	"	"
Copper	5.92	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Native-BG04@12'

9/20/2021 10:32:00AM

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

Y109390-08 (Soil)

Total Metals by 6020B

Lead	5.82	0.031	0.25	mg/Kg	5	L575438	09/22/2021	09/23/2021	
Nickel	6.55	0.0633	0.25	"	"	"	"	"	
Selenium	0.129	0.103	0.25	"	"	"	"	"	J
Silver	0.0274	0.0067	0.25	"	"	"	"	"	J
Zinc	27.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L575539	09/20/2021	09/28/2021	
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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111715 - EPA 5030 (soil)										
Blank (B111715-BLK1)					Prepared: 09/17/2021 Analyzed: 09/17/2021					
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	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.3		70-130			

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Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111715 - EPA 5030 (soil)

LCS (B111715-BS1)

Prepared: 09/17/2021 Analyzed: 09/17/2021

1,2,4-Trimethylbenzene	0.0550	0.00200	mg/kg	0.0500		110	70-130			
Naphthalene	0.0577	0.0100	"	0.0500		115	70-130			
1,3,5-Trimethylbenzene	0.0536	0.00200	"	0.0500		107	70-130			
Benzene	0.0543	0.00200	"	0.0500		109	70-130			
Ethylbenzene	0.0521	0.00200	"	0.0500		104	70-130			
m,p-Xylene	0.108	0.00400	"	0.100		108	70-130			
o-Xylene	0.0539	0.00200	"	0.0500		108	70-130			
Toluene	0.0551	0.00200	"	0.0500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111715 - EPA 5030 (soil)

Matrix Spike (B111715-MS1)		Source: Y109317-01			Prepared: 09/17/2021 Analyzed: 09/17/2021					
1,2,4-Trimethylbenzene	0.0688	0.00200	mg/kg	0.0500	ND	138	70-130			QM-07
Naphthalene	0.0710	0.0100	"	0.0500	0.00222	138	70-130			QM-07
1,3,5-Trimethylbenzene	0.0689	0.00200	"	0.0500	ND	138	70-130			QM-07
Benzene	0.0700	0.00200	"	0.0500	ND	140	70-130			QM-07
Ethylbenzene	0.0686	0.00200	"	0.0500	ND	137	70-130			QM-07
m,p-Xylene	0.139	0.00400	"	0.100	ND	139	70-130			QM-07
o-Xylene	0.0712	0.00200	"	0.0500	ND	142	70-130			QM-07
Toluene	0.0671	0.00200	"	0.0500	ND	134	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B111715 - EPA 5030 (soil)

Matrix Spike Dup (B111715-MSD1)		Source: Y109317-01			Prepared: 09/17/2021 Analyzed: 09/17/2021					
1,2,4-Trimethylbenzene	0.0544	0.00200	mg/kg	0.0500	ND	109	70-130	23.3	20	QR-03
Naphthalene	0.0583	0.0100	"	0.0500	0.00222	112	70-130	19.6	20	
1,3,5-Trimethylbenzene	0.0544	0.00200	"	0.0500	ND	109	70-130	23.6	20	QR-03
Benzene	0.0560	0.00200	"	0.0500	ND	112	70-130	22.3	20	QR-03
Ethylbenzene	0.0543	0.00200	"	0.0500	ND	109	70-130	23.3	20	QR-03
m,p-Xylene	0.111	0.00400	"	0.100	ND	111	70-130	22.5	20	QR-03
o-Xylene	0.0560	0.00200	"	0.0500	ND	112	70-130	23.9	20	QR-03
Toluene	0.0542	0.00200	"	0.0500	ND	108	70-130	21.2	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1I2005 - EPA 5030 (soil)										
Blank (B1I2005-BLK1)					Prepared: 09/20/2021 Analyzed: 09/20/2021					
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	94.1		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	93.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		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 B1I2005 - EPA 5030 (soil)

LCS (B1I2005-BS1)

Prepared: 09/20/2021 Analyzed: 09/20/2021

1,2,4-Trimethylbenzene	0.0485	0.00200	mg/kg	0.0500		97.0	70-130			
Naphthalene	0.0406	0.0100	"	0.0500		81.2	70-130			
1,3,5-Trimethylbenzene	0.0487	0.00200	"	0.0500		97.3	70-130			
Benzene	0.0582	0.00200	"	0.0500		116	70-130			
Ethylbenzene	0.0518	0.00200	"	0.0500		104	70-130			
m,p-Xylene	0.103	0.00400	"	0.100		103	70-130			
o-Xylene	0.0489	0.00200	"	0.0500		97.9	70-130			
Toluene	0.0514	0.00200	"	0.0500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B112005 - EPA 5030 (soil)

Matrix Spike (B112005-MS1)		Source: Y109347-01			Prepared: 09/20/2021 Analyzed: 09/20/2021					
1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500	ND	89.9	70-130			
Naphthalene	0.0397	0.0100	"	0.0500	0.00118	77.1	70-130			
1,3,5-Trimethylbenzene	0.0458	0.00200	"	0.0500	ND	91.5	70-130			
Benzene	0.0584	0.00200	"	0.0500	ND	117	70-130			
Ethylbenzene	0.0500	0.00200	"	0.0500	ND	100	70-130			
m,p-Xylene	0.0982	0.00400	"	0.100	ND	98.2	70-130			
o-Xylene	0.0473	0.00200	"	0.0500	ND	94.6	70-130			
Toluene	0.0497	0.00200	"	0.0500	ND	99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B112005 - EPA 5030 (soil)

Matrix Spike Dup (B112005-MSD1)		Source: Y109347-01			Prepared: 09/20/2021 Analyzed: 09/20/2021					
1,2,4-Trimethylbenzene	0.0488	0.00200	mg/kg	0.0500	ND	97.6	70-130	8.28	20	
Naphthalene	0.0421	0.0100	"	0.0500	0.00118	81.8	70-130	5.72	20	
1,3,5-Trimethylbenzene	0.0498	0.00200	"	0.0500	ND	99.6	70-130	8.46	20	
Benzene	0.0606	0.00200	"	0.0500	ND	121	70-130	3.63	20	
Ethylbenzene	0.0549	0.00200	"	0.0500	ND	110	70-130	9.27	20	
m,p-Xylene	0.107	0.00400	"	0.100	ND	107	70-130	9.03	20	
o-Xylene	0.0513	0.00200	"	0.0500	ND	103	70-130	8.11	20	
Toluene	0.0538	0.00200	"	0.0500	ND	108	70-130	7.96	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1I2121 - Default Prep Metals

Blank (B1I2121-BLK1)

Prepared: 09/21/2021 Analyzed: 09/22/2021

Boron	ND	0.200	mg/L							U
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Batch B1I2217 - Default Prep Metals

Blank (B1I2217-BLK1)

Prepared: 09/22/2021 Analyzed: 09/22/2021

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

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1I2201 - NO PREP										
Duplicate (B1I2201-DUP1)		Source: Y109390-03			Prepared: 09/22/2021 Analyzed: 09/22/2021					
pH	7.43		pH Units		7.36			0.947	25	
Batch B1I2214 - NO PREP										
Blank (B1I2214-BLK1)		Prepared: 09/22/2021 Analyzed: 09/22/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B1I2214-DUP1)		Source: Y109390-03			Prepared: 09/22/2021 Analyzed: 09/22/2021					
Specific Conductance (EC)	0.943	0.00500	mmhos/cm		0.869			8.17	25	

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575408 - 3550B

MSD (L 90853-MSD-L575408)		Source: 90853			Prepared: 09/22/2021 Analyzed: 09/22/2021					
1-Methylnaphthalene	0.101	0.00033	mg/Kg	0.166	<0.000330	60.8	30-130	3.8	30	
Naphthalene	0.0935	0.000467	"	0.166	<0.000467	56.3	30-130	4.1	30	
2-Methylnaphthalene	0.0988	0.00039	"	0.166	0.000408	59.5	30-130	4.1	30	
Surrogate: Nitrobenzene-d5	87.9		"	0.331	285	87.9	29-110			
Surrogate: 4-Terphenyl-d14	107		"	0.331	305	107	33-122			
Surrogate: 2-Fluorobiphenyl	88.2		"	0.331	321	88.2	33-115			

MS (L 90853-MS-L575408)		Source: 90853			Prepared: 09/22/2021 Analyzed: 09/22/2021					
1-Methylnaphthalene	0.105	0.00033	mg/Kg	0.167	<0.000330	62.8	30-130			
Naphthalene	0.0975	0.000467	"	0.167	<0.000467	58.3	30-130			
2-Methylnaphthalene	0.103	0.00039	"	0.167	0.000408	61.6	30-130			
Surrogate: 4-Terphenyl-d14	99.3		"	0.333	305	99.3	33-122			
Surrogate: Nitrobenzene-d5	86.4		"	0.333	285	86.4	29-110			
Surrogate: 2-Fluorobiphenyl	85.8		"	0.333	321	85.8	33-115			

LCS (LCS-L575408)		Prepared: 09/22/2021 Analyzed: 09/22/2021								
2-Methylnaphthalene	0.101	0.00039	mg/Kg	0.167		60.4	30-130			
Naphthalene	0.1	0.000467	"	0.167		59.8	30-130			
1-Methylnaphthalene	0.104	0.00033	"	0.167		62.2	30-130			
Surrogate: 2-Fluorobiphenyl	92.4		"	0.333		92.4	33-115			
Surrogate: 4-Terphenyl-d14	105		"	0.333		105	33-122			
Surrogate: Nitrobenzene-d5	97.8		"	0.333		97.8	29-110			

LRB (LRB-L575408)		Prepared: 09/22/2021 Analyzed: 09/22/2021								
Naphthalene	ND	0.00067	mg/Kg			-				
1-Methylnaphthalene	ND	0.00067	"			-				
2-Methylnaphthalene	ND	0.00067	"			-				
Surrogate: 4-Terphenyl-d14	90.9		"	0.333		90.9	33-122			

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575408 - 3550B

LRB (LRB-L575408)

Prepared: 09/22/2021 Analyzed: 09/22/2021

Surrogate: Nitrobenzene-d5	90		mg/Kg	0.333		90	29-110			
Surrogate: 2-Fluorobiphenyl	96.6		"	0.333		96.6	33-115			

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575438 - 3050B

MSD (L 90903-MSD-L575438)		Source: 90903			Prepared: 09/22/2021 Analyzed: 09/23/2021					
Silver	0.465	0.0067	mg/Kg	0.472	0.0225	99	75-125	2.3	80	
Selenium	3.32	0.103	"	4.72	0.257	65	75-125	11.6	80	*
Nickel	17.2	0.0633	"	2.36	13.9	140	75-125	0.5	80	*
Lead	14.9	0.031	"	2.36	12.2	114	75-125	3.4	80	
Copper	15.2	0.0806	"	2.36	12.2	127	75-125	0	80	*
Cadmium	0.673	0.0259	"	0.472	0.194	143	75-125	2.6	80	*
Barium	249	0.042	"	4.72	84.8	NR	75-125	54	80	*
Arsenic	5.21	0.0855	"	2.36	3.76	61	75-125	4.6	80	*
Zinc	76	0.534	"	23.6	49.2	114	75-125	0.3	80	

MS (L 90903-MS-L575438)		Source: 90903			Prepared: 09/22/2021 Analyzed: 09/23/2021					
Barium	143	0.042	mg/Kg	4.91	84.8	NR	75-125			*
Lead	14.4	0.031	"	2.46	12.2	90	75-125			
Arsenic	5.46	0.0855	"	2.46	3.76	69	75-125			*
Cadmium	0.691	0.0259	"	0.491	0.194	141	75-125			*
Zinc	76.3	0.534	"	24.6	49.2	110	75-125			
Silver	0.476	0.0067	"	0.491	0.0225	97	75-125			
Selenium	3.73	0.103	"	4.91	0.257	71	75-125			*
Nickel	17.3	0.0633	"	2.46	13.9	138	75-125			*
Copper	15.2	0.0806	"	2.46	12.2	122	75-125			

LCS (LCS-L575438)		Prepared: 09/22/2021 Analyzed: 09/23/2021								
Zinc	25.4	0.534	mg/Kg	25		102	80-120			
Silver	0.505	0.0067	"	0.5		101	80-120			
Selenium	5.02	0.103	"	5		100	80-120			
Nickel	2.65	0.0633	"	2.5		106	80-120			
Lead	2.45	0.031	"	2.5		98	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575438 - 3050B

LCS (LCS-L575438)

Prepared: 09/22/2021 Analyzed: 09/23/2021

Copper	2.66	0.0806	mg/Kg	2.5		106	80-120			
Cadmium	0.494	0.0259	"	0.5		99	80-120			
Barium	5.14	0.042	"	5		103	80-120			
Arsenic	2.47	0.0855	"	2.5		99	80-120			

LRB (LRB-L575438)

Prepared: 09/22/2021 Analyzed: 09/23/2021

Nickel	ND	0.25	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.0427	0.25	"				-			J
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575539 -										
DUP (L 90994-DUP)		Source: Y109390-07			Prepared: Analyzed: 09/28/2021					
Chromium, Hexavalent	ND	0.251	mg/Kg		<0.515	-		0	20	
MS (L 90994-MS)		Source: Y109390-07			Prepared: Analyzed: 09/28/2021					
Chromium, Hexavalent	5.78	0.244	mg/Kg	7.82	<0.244	74	75-125			*
LCS (LCS)					Prepared: Analyzed: 09/28/2021					
Chromium, Hexavalent	6.47	0.244	mg/Kg	8		81	75-125			
LRB (LRB)					Prepared: Analyzed: 09/28/2021					
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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575524 -

DUP (L 90817-DUP)		Source: 90817			Prepared: Analyzed: 09/23/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 90817-MS)		Source: 90817			Prepared: Analyzed: 09/23/2021					
Chromium, Hexavalent	6.95	0.251	mg/Kg	8.26	<0.251	84	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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.

Jen Pellegrini For Noelle Doyle Mathis, President

September 28, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA **Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. September 21, 2021. This project is associated with Origins project number Y109426-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-S03@9'	Y109426-01	Soil	September 21, 2021 10:27	09/21/2021 17:43

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.

Page 3 of 7

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1109426

Client: WSP

Client Project ID: Anderson UPRR 32-9

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 9/22/21

Airbill #: N/A

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

☐ Water

☐ Other:

Cooler Number/Temperature: 115.9 °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 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 HT's 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 Na ₂ SO 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) JM

Date/Time Reviewed 9-23-21

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-S03@9'

9/21/2021 10:27:00AM

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

Y109426-01 (Soil)

Total Metals by 6020B

Arsenic	2.53	0.0855	0.25	mg/Kg	5	L575632	09/23/2021	09/24/2021
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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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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
Batch L575632 - 3050B										
MSD (L 91463-MSD-L575632)			Source: 91463		Prepared: 09/23/2021 Analyzed: 09/24/2021					
Arsenic	3.3	0.0855	mg/Kg	2.39	1.13	91	75-125	3.7	80	
MS (L 91463-MS-L575632)			Source: 91463		Prepared: 09/23/2021 Analyzed: 09/24/2021					
Arsenic	3.18	0.0855	mg/Kg	2.44	1.13	84	75-125			
LCS (LCS-L575632)			Prepared: 09/23/2021 Analyzed: 09/24/2021							
Arsenic	2.49	0.0855	mg/Kg	2.5		100	80-120			
LRB (LRB-L575632)			Prepared: 09/23/2021 Analyzed: 09/24/2021							
Arsenic	ND	0.25	mg/Kg							

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Notes and Definitions

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 28, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA **Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. September 22, 2021. This project is associated with Origins project number Y109467-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-W03@8'	Y109467-01	Soil	September 22, 2021 14:30	09/22/2021 16:00

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC

Client: WSP
Address: 4600 W 60th Ave
Arvada CO 80003
Telephone Number: _____
Email Address: KMG Group

Project Manager: Brian Sulzberger
Project Name: Anderson UP 32-9A-UP O SA
Project Number: 31403177.142.05
Samples Collected By: RJ

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SEP-140308	9-22-21	1430	2	X								1 X GW collection
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 9-22-21 Time: 1100
Relinquished By: [Signature] Date: 9-22-21 Time: 1100

Received By: [Signature] Date: 9-22-21 Time: 1600
Received By: [Signature] Date: 9-22-21 Time: 1600

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

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

Date Results Needed

Temp Received- 4.9

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1109467

Client: WSP

Client Project ID: Anderson UPRR 32-9A

Checklist Completed by: JG

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

Date/time completed: 9/22/21

Airbill #: N/A

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

Cooler Number/Temperature: 1148 °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"/>			
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: 9/22/21

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W03@8'

9/22/2021 2:30:00PM

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

Y109467-01 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B112221	09/22/2021	09/22/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L575623	09/23/2021	09/23/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	77.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	91.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61 %	29-110	"	"	"

Total Metals by 6020B

Arsenic	3.03	0.0855	0.25	mg/Kg	5	L575632	"	09/24/2021
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B112221 - EPA 5030 (soil)										
Blank (B112221-BLK1)					Prepared: 09/22/2021 Analyzed: 09/22/2021					
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		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B112221 - EPA 5030 (soil)

LCS (B112221-BS1)

Prepared: 09/22/2021 Analyzed: 09/22/2021

1,2,4-Trimethylbenzene	0.0468	0.00200	mg/kg	0.0500		93.6	70-130			
Naphthalene	0.0499	0.0100	"	0.0500		99.8	70-130			
1,3,5-Trimethylbenzene	0.0452	0.00200	"	0.0500		90.3	70-130			
Benzene	0.0484	0.00200	"	0.0500		96.8	70-130			
Ethylbenzene	0.0447	0.00200	"	0.0500		89.4	70-130			
m,p-Xylene	0.0928	0.00400	"	0.100		92.8	70-130			
o-Xylene	0.0467	0.00200	"	0.0500		93.4	70-130			
Toluene	0.0478	0.00200	"	0.0500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B112221 - EPA 5030 (soil)

Matrix Spike (B112221-MS1)		Source: Y109462-01			Prepared: 09/22/2021 Analyzed: 09/22/2021					
1,2,4-Trimethylbenzene	0.0399	0.00200	mg/kg	0.0500	0.000760	78.3	70-130			
Naphthalene	0.0462	0.0100	"	0.0500	0.00188	88.6	70-130			
1,3,5-Trimethylbenzene	0.0382	0.00200	"	0.0500	0.000460	75.5	70-130			
Benzene	0.0407	0.00200	"	0.0500	ND	81.4	70-130			
Ethylbenzene	0.0364	0.00200	"	0.0500	ND	72.9	70-130			
m,p-Xylene	0.0753	0.00400	"	0.100	ND	75.3	70-130			
o-Xylene	0.0391	0.00200	"	0.0500	ND	78.2	70-130			
Toluene	0.0379	0.00200	"	0.0500	ND	75.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B112221 - EPA 5030 (soil)

Matrix Spike Dup (B112221-MSD1)		Source: Y109462-01			Prepared: 09/22/2021 Analyzed: 09/22/2021					
1,2,4-Trimethylbenzene	0.0433	0.00200	mg/kg	0.0500	0.000760	85.0	70-130	8.13	20	
Naphthalene	0.0468	0.0100	"	0.0500	0.00188	89.9	70-130	1.38	20	
1,3,5-Trimethylbenzene	0.0420	0.00200	"	0.0500	0.000460	83.1	70-130	9.48	20	
Benzene	0.0441	0.00200	"	0.0500	ND	88.3	70-130	8.11	20	
Ethylbenzene	0.0406	0.00200	"	0.0500	ND	81.2	70-130	10.8	20	
m,p-Xylene	0.0838	0.00400	"	0.100	ND	83.8	70-130	10.6	20	
o-Xylene	0.0427	0.00200	"	0.0500	ND	85.3	70-130	8.76	20	
Toluene	0.0417	0.00200	"	0.0500	ND	83.5	70-130	9.75	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575623 - 3550B

MSD (L 91357-MSD-L575623)		Source: 91357			Prepared: 09/23/2021 Analyzed: 09/23/2021					
Naphthalene	1.57	0.00234	mg/Kg	0.164	2.08	NR	30-130	19.5	30	*
2-Methylnaphthalene	2.07	0.00195	"	0.164	2.69	NR	30-130	18	30	*
1-Methylnaphthalene	1.41	0.00165	"	0.164	1.81	NR	30-130	25.3	30	*
Surrogate: Nitrobenzene-d5	88.7		"	0.328	315	88.7	29-110			
Surrogate: 4-Terphenyl-d14	95.4		"	0.328	321	95.4	33-122			
Surrogate: 2-Fluorobiphenyl	86.8		"	0.328	299	86.8	33-115			
MS (L 91357-MS-L575623)		Source: 91357			Prepared: 09/23/2021 Analyzed: 09/23/2021					
Naphthalene	1.91	0.00234	mg/Kg	0.165	2.08	NR	30-130			*
1-Methylnaphthalene	1.82	0.00165	"	0.165	1.81	6	30-130			*
2-Methylnaphthalene	2.48	0.00195	"	0.165	2.69	NR	30-130			*
Surrogate: 4-Terphenyl-d14	105		"	0.33	321	105	33-122			
Surrogate: Nitrobenzene-d5	99.6		"	0.33	315	99.6	29-110			
Surrogate: 2-Fluorobiphenyl	96		"	0.33	299	96	33-115			
LCS (LCS-L575623)					Prepared: 09/23/2021 Analyzed: 09/23/2021					
Naphthalene	0.113	0.000467	mg/Kg	0.167		67.6	30-130			
2-Methylnaphthalene	0.121	0.00039	"	0.167		72.4	30-130			
1-Methylnaphthalene	0.118	0.00033	"	0.167		70.6	30-130			
Surrogate: 4-Terphenyl-d14	105		"	0.333		105	33-122			
Surrogate: 2-Fluorobiphenyl	101		"	0.333		101	33-115			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575623 - 3550B

LRB (LRB-L575623)

Prepared: 09/23/2021 Analyzed: 09/23/2021

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	84.9		"	0.333	84.9		33-115			
Surrogate: 4-Terphenyl-d14	85.2		"	0.333	85.2		33-122			
Surrogate: Nitrobenzene-d5	65.4		"	0.333	65.4		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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L575632 - 3050B										
MSD (L 91463-MSD-L575632)		Source: 91463			Prepared: 09/23/2021 Analyzed: 09/24/2021					
Arsenic	3.3	0.0855	mg/Kg	2.39	1.13	91	75-125	3.7	80	
MS (L 91463-MS-L575632)		Source: 91463			Prepared: 09/23/2021 Analyzed: 09/24/2021					
Arsenic	3.18	0.0855	mg/Kg	2.44	1.13	84	75-125			
LCS (LCS-L575632)					Prepared: 09/23/2021 Analyzed: 09/24/2021					
Arsenic	2.49	0.0855	mg/Kg	2.5		100	80-120			
LRB (LRB-L575632)					Prepared: 09/23/2021 Analyzed: 09/24/2021					
Arsenic	ND	0.25	mg/Kg							

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Notes and Definitions

U Sample is Non-Detect.

* 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.



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Jen Pellegrini For Noelle Doyle Mathis, President



September 28, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Anderson UPRR 32-9A

Project Number - 31403177.95

Attached are your analytical results for KMG - Anderson UPRR 32-9A received by Origins Laboratory, Inc. September 27, 2021. This project is associated with Origins project number Y109583-01.

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: 31403177.95

Project: KMG - Anderson UPRR 32-9A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-B07@16'	Y109583-01	Soil	September 27, 2021 12:45	09/27/2021 16:15

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4100033

Client: WSP

Client Project ID: Anderson UPRR 32-9A

Checklist Completed by: KH

Shipped Via: HD

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

Date/time completed: 9/27/21

Airbill #: NA

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

☐ Water

☐ Other:

Cooler Number/Temperature: 1 / 1.6 °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.

Kelly Holmes
Reviewed by (Project Manager)

9.27.21
Date/Time Reviewed

Origins Laboratory, Inc.

Jen 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: 31403177.95

Project: KMG - Anderson UPRR 32-9A

Sep01-B07@16'

9/27/2021 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109583-01 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B112711	KDK	09/27/2021	09/27/2021	U
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Surrogate: 1,2-Dichloroethane-d4

88.8 % 70-130

"

"

"

Surrogate: Toluene-d8

102 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

110 % 70-130

"

"

"

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B112711 - EPA 5030 (soil)										
Blank (B112711-BLK1)					Prepared: 09/27/2021 Analyzed: 09/27/2021					
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	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.95
Project: KMG - Anderson UPRR 32-9A

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 B112711 - EPA 5030 (soil)										
LCS (B112711-BS1)					Prepared: 09/27/2021 Analyzed: 09/27/2021					
1,2,4-Trimethylbenzene	0.0486	0.00200	mg/kg	0.0500		97.2	70-130			
Naphthalene	0.0385	0.0100	"	0.0500		77.0	70-130			
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500		97.8	70-130			
Benzene	0.0486	0.00200	"	0.0500		97.3	70-130			
Ethylbenzene	0.0529	0.00200	"	0.0500		106	70-130			
m,p-Xylene	0.105	0.00400	"	0.100		105	70-130			
o-Xylene	0.0512	0.00200	"	0.0500		102	70-130			
Toluene	0.0498	0.00200	"	0.0500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B112711 - EPA 5030 (soil)										
Matrix Spike (B112711-MS1)		Source: Y109543-07			Prepared: 09/27/2021 Analyzed: 09/27/2021					
1,2,4-Trimethylbenzene	0.0370	0.00200	mg/kg	0.0500	0.00452	64.9	70-130			QM-07
Naphthalene	0.0221	0.0100	"	0.0500	ND	44.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0423	0.00200	"	0.0500	0.00510	74.5	70-130			
Benzene	0.0481	0.00200	"	0.0500	ND	96.2	70-130			
Ethylbenzene	0.0437	0.00200	"	0.0500	ND	87.5	70-130			
m,p-Xylene	0.0880	0.00400	"	0.100	0.000800	87.2	70-130			
o-Xylene	0.0554	0.00200	"	0.0500	0.0141	82.6	70-130			
Toluene	0.0462	0.00200	"	0.0500	ND	92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

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 B112711 - EPA 5030 (soil)										
Matrix Spike Dup (B112711-MSD1)		Source: Y109543-07			Prepared: 09/27/2021 Analyzed: 09/27/2021					
1,2,4-Trimethylbenzene	0.0362	0.00200	mg/kg	0.0500	0.00452	63.4	70-130	2.08	20	QM-07
Naphthalene	0.0220	0.0100	"	0.0500	ND	43.9	70-130	0.816	20	QM-07
1,3,5-Trimethylbenzene	0.0430	0.00200	"	0.0500	0.00510	75.8	70-130	1.50	20	
Benzene	0.0479	0.00200	"	0.0500	ND	95.7	70-130	0.542	20	
Ethylbenzene	0.0448	0.00200	"	0.0500	ND	89.6	70-130	2.44	20	
m,p-Xylene	0.0890	0.00400	"	0.100	0.000800	88.2	70-130	1.08	20	
o-Xylene	0.0587	0.00200	"	0.0500	0.0141	89.3	70-130	5.85	20	
Toluene	0.0452	0.00200	"	0.0500	ND	90.4	70-130	2.15	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.95

Project: KMG - Anderson UPRR 32-9A

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



October 08, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA **Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. October 04, 2021. This project is associated with Origins project number Y110058-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-E05@6'	Y110058-01	Soil	October 4, 2021 11:37	10/04/2021 16:25
Sep01-E06@6'	Y110058-02	Soil	October 4, 2021 11:42	10/04/2021 16:25
Sep01-B08@16'	Y110058-03	Soil	October 4, 2021 11:50	10/04/2021 16:25
Sep01-B09@16'	Y110058-04	Soil	October 4, 2021 11:56	10/04/2021 16:25

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 111005X

Client: WSP

Client Project ID: Anderson UPRR 32-9A UP O SA

Checklist Completed by: KH

Shipped Via: 110

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

Date/time completed: 10-4-21

Airbill #: NA

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

Cooler Number/Temperature: 1 5.1 °C 1 °C 1 °C (Describe) _____ °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 type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Kelly Holmes
 Reviewed by (Project Manager)

10-4-21
 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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E05@6'

10/4/2021 11:37:00AM

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

Y110058-01 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.319		0.00200	mg/kg	1	B1J0435	10/04/2021	10/05/2021	
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Surrogate: 1,2-Dichloroethane-d4	133 %		70-130			"	"	"	S-04
Surrogate: Toluene-d8	95.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	128 %		70-130			"	"	"	

Total Metals by 6020B

Arsenic	3.79	0.0855	0.25	mg/Kg	5	L577807	10/06/2021	10/07/2021	
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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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E06@6'

10/4/2021 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110058-02 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00454		0.00200	mg/kg	1	B1J0435	10/04/2021	10/04/2021	
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Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L577835	10/06/2021	10/06/2021	
2-Methylnaphthalene	0.000541	0.00039	0.00067	"	"	"	"	"	J
Naphthalene	0.00051	0.000467	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	68.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.1 %		29-110			"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B08@16'

10/4/2021 11:50:00AM

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

Y110058-03 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0435	10/04/2021	10/04/2021	U
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Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130	"	"	"

Total Metals by 6020B

Arsenic	1.43	0.0855	0.25	mg/Kg	5	L577807	10/06/2021	10/07/2021
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B09@16'

10/4/2021 11:56:00AM

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

Y110058-04 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0435	10/04/2021	10/04/2021	U
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Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
Surrogate: Toluene-d8	96.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L577835	10/06/2021	10/06/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.5 %	29-110	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J0435 - EPA 5030 (soil)										
Blank (B1J0435-BLK1)					Prepared: 10/04/2021 Analyzed: 10/04/2021					
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	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.5		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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J0435 - EPA 5030 (soil)

LCS (B1J0435-BS1)

Prepared: 10/04/2021 Analyzed: 10/04/2021

1,2,4-Trimethylbenzene	0.0491	0.00200	mg/kg	0.0500		98.1	70-130			
Naphthalene	0.0442	0.0100	"	0.0500		88.5	70-130			
1,3,5-Trimethylbenzene	0.0495	0.00200	"	0.0500		99.0	70-130			
Benzene	0.0461	0.00200	"	0.0500		92.2	70-130			
Ethylbenzene	0.0469	0.00200	"	0.0500		93.7	70-130			
m,p-Xylene	0.0985	0.00400	"	0.100		98.5	70-130			
o-Xylene	0.0472	0.00200	"	0.0500		94.4	70-130			
Toluene	0.0477	0.00200	"	0.0500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J0435 - EPA 5030 (soil)

Matrix Spike (B1J0435-MS1)		Source: Y110058-02			Prepared: 10/04/2021 Analyzed: 10/05/2021					
1,2,4-Trimethylbenzene	0.0288	0.00200	mg/kg	0.0500	0.00454	48.4	70-130			QM-07
Naphthalene	0.0340	0.0100	"	0.0500	0.00146	65.1	70-130			QM-07
1,3,5-Trimethylbenzene	0.0276	0.00200	"	0.0500	ND	55.2	70-130			QM-07
Benzene	0.0363	0.00200	"	0.0500	ND	72.5	70-130			
Ethylbenzene	0.0296	0.00200	"	0.0500	ND	59.2	70-130			QM-07
m,p-Xylene	0.0636	0.00400	"	0.100	ND	63.6	70-130			QM-07
o-Xylene	0.0319	0.00200	"	0.0500	ND	63.7	70-130			QM-07
Toluene	0.0344	0.00200	"	0.0500	ND	68.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J0435 - EPA 5030 (soil)										
Matrix Spike Dup (B1J0435-MSD1)		Source: Y110058-02			Prepared: 10/04/2021 Analyzed: 10/05/2021					
1,2,4-Trimethylbenzene	0.0366	0.00200	mg/kg	0.0500	0.00454	64.2	70-130	24.1	20	QM-07, QR-03
Naphthalene	0.0435	0.0100	"	0.0500	0.00146	84.0	70-130	24.4	20	QR-03
1,3,5-Trimethylbenzene	0.0354	0.00200	"	0.0500	ND	70.7	70-130	24.7	20	QR-03
Benzene	0.0404	0.00200	"	0.0500	ND	80.9	70-130	10.9	20	
Ethylbenzene	0.0346	0.00200	"	0.0500	ND	69.1	70-130	15.4	20	QM-07
m,p-Xylene	0.0723	0.00400	"	0.100	ND	72.3	70-130	12.9	20	
o-Xylene	0.0369	0.00200	"	0.0500	ND	73.8	70-130	14.7	20	
Toluene	0.0373	0.00200	"	0.0500	ND	74.6	70-130	8.03	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L577835 - 3550B

MSD (L 97293-MSD-L577835)		Source: 97293			Prepared: 10/06/2021 Analyzed: 10/06/2021					
Naphthalene	0.093	0.000467	mg/Kg	0.165	0.00373	54.1	30-130	17.5	30	
2-Methylnaphthalene	0.109	0.00039	"	0.165	0.0194	54.3	30-130	15	30	
1-Methylnaphthalene	0.105	0.00033	"	0.165	0.0173	53.1	30-130	15.4	30	
Surrogate: Nitrobenzene-d5	57.5		"	0.33	185	57.5	29-110			
Surrogate: 4-Terphenyl-d14	74.2		"	0.33	231	74.2	33-122			
Surrogate: 2-Fluorobiphenyl	74.2		"	0.33	225	74.2	33-115			
MS (L 97293-MS-L577835)		Source: 97293			Prepared: 10/06/2021 Analyzed: 10/06/2021					
Naphthalene	0.078	0.000467	mg/Kg	0.166	0.00373	44.7	30-130			
1-Methylnaphthalene	0.0899	0.00033	"	0.166	0.0173	43.7	30-130			
2-Methylnaphthalene	0.0937	0.00039	"	0.166	0.0194	44.7	30-130			
Surrogate: 4-Terphenyl-d14	65		"	0.332	231	65	33-122			
Surrogate: 2-Fluorobiphenyl	58.7		"	0.332	225	58.7	33-115			
Surrogate: Nitrobenzene-d5	46.3		"	0.332	185	46.3	29-110			
LCS (LCS-L577835)					Prepared: 10/06/2021 Analyzed: 10/06/2021					
2-Methylnaphthalene	0.109	0.00039	mg/Kg	0.167		65.2	30-130			
1-Methylnaphthalene	0.105	0.00033	"	0.167		62.8	30-130			
Naphthalene	0.099	0.000467	"	0.167		59.2	30-130			
Surrogate: Nitrobenzene-d5	65.7		"	0.333		65.7	29-110			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: 2-Fluorobiphenyl	83.1		"	0.333		83.1	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L577835 - 3550B

LRB (LRB-L577835)

Prepared: 10/06/2021 Analyzed: 10/06/2021

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	64.2		"	0.333	64.2		29-110			
Surrogate: 2-Fluorobiphenyl	72.9		"	0.333	72.9		33-115			
Surrogate: 4-Terphenyl-d14	78.9		"	0.333	78.9		33-122			

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L577807 - 3050B										
MSD (L 97331-MSD-L577807)		Source: 97331			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Arsenic	3.26	0.0855	mg/Kg	2.48	1.03	90	75-125	7.9	80	
MS (L 97331-MS-L577807)		Source: 97331			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Arsenic	3.01	0.0855	mg/Kg	2.42	1.03	82	75-125			
LCS (LCS-L577807)					Prepared: 10/06/2021 Analyzed: 10/07/2021					
Arsenic	2.46	0.0855	mg/Kg	2.5		98	80-120			
LRB (LRB-L577807)					Prepared: 10/06/2021 Analyzed: 10/07/2021					
Arsenic	ND	0.25	mg/Kg							

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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.

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.

November 02, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA **Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. October 26, 2021. This project is associated with Origins project number Y110539-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-N04@6'	Y110539-01	Soil	October 26, 2021 15:30	10/26/2021 18:08
Sep01-N05@6'	Y110539-02	Soil	October 26, 2021 15:35	10/26/2021 18:08
Sep01-N06@6'	Y110539-03	Soil	October 26, 2021 15:40	10/26/2021 18:08
Sep01-E07@6'	Y110539-04	Soil	October 26, 2021 15:45	10/26/2021 18:08
Sep01-E08@6'	Y110539-05	Soil	October 26, 2021 15:50	10/26/2021 18:08
Sep01-S04@6'	Y110539-06	Soil	October 26, 2021 15:55	10/26/2021 18:08
Sep01-S05@6'	Y110539-07	Soil	October 26, 2021 16:05	10/26/2021 18:08
Sep01-S06@6'	Y110539-08	Soil	October 26, 2021 16:10	10/26/2021 18:08
Sep01-W04@6'	Y110539-09	Soil	October 26, 2021 16:15	10/26/2021 18:08
Sep01-W05@6'	Y110539-10	Soil	October 26, 2021 16:20	10/26/2021 18:08
Sep01-W06@6'	Y110539-11	Soil	October 26, 2021 16:25	10/26/2021 18:08
Sep01-B10@16'	Y110539-12	Soil	October 26, 2021 16:30	10/26/2021 18:08
Sep01-B11@16'	Y110539-13	Soil	October 26, 2021 16:35	10/26/2021 18:08

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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ORIGINS
LABORATORY, INC

Client: WSP USA
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: 303 488 9943
Email Address: KMG Group

Project Manager: Brian Sulzberger
Project Name: Anderson UPRR 32-9A UP O SA
Project Number: 31403177.142
Samples Collected By: KMG 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	Air Summa #		
Sep01-10406	10/16/01	1530	2								X	Blank Water Protection
Sep01-10506		1535									X	
Sep01-10606		1540									X	
Sep01-10706		1545									X	
Sep01-10806		1550									X	
Sep01-10906		1555									X	
Sep01-11006		1605									X	
Sep01-11106		1610									X	
Sep01-11206		1615									X	
Sep01-11306		1620									X	
Relinquished By: <i>KMG Mathis</i>	Date: 10/16/01	Time: 1808										Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
Relinquished By:	Date:	Time:										

Date Results Needed

Temp Received: 4.1

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.

Project: KMG - Anderson UPRR 32-9A UP O SA

ORIGINS

LABORATORY, INC

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110539

page 1 of 2

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

Client: Wt GSD
Address: 4620 W 60th Ave
Avondale CO 80203
Telephone Number: 13037891913
Email Address: KMB@wgt.com

Project Manager: Brian Sullivan
Project Name: Anderson UP 32-9A UP 30A
Project Number: 31403177.142
Samples Collected By: Kyle Walker

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	ENV+915	AAS/ICP	
Suppl-Water	10/26/21	1625	2					X					X	Ground Water Plotting
Suppl-B10@16'	1	1630	2					X					X	
Suppl-B11@16'	1	1635	2					X					X	
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: <u>Kyle Walker</u>	Date: <u>12/16/21</u>	Time: <u>1328</u>	Received By: <u>WJH</u>	Date: <u>10/26/21</u>	Time: <u>10:28</u>	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"/>								
Relinquished By:	Date:	Time:	Received By:	Date:	Time:									

Temp Received: 4.1 Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y110539

Client: WSP

Client Project ID: Anderson UPRR

Checklist Completed by: SG

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

Date/Time Completed: 10/26/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.1 °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⁾ ?	<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) [Signature]

Date/Time Reviewed 10/26/21

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N04@6'

10/26/2021 3:30:00PM

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

Y110539-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.436	0.198	mg/L	1	B1J2628	10/26/2021	10/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J2616	10/26/2021	10/26/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.2 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J2617	10/26/2021	10/26/2021	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	102 %	70-130			"	"	"	
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N04@6'

10/26/2021 3:30:00PM

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

Y110539-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.0 %	70-130	B1J26 17	10/26/2021	10/26/2021
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	9.02	0.499	meq/L	10	[CALC]	10/27/2021	10/28/2021
Magnesium	6.30	0.823	"	"	"	"	"
Sodium	9.73	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	0.000568	0.00033	0.00067	"	"	"	"	" J
Benzo(a)anthracene	0.00677	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.0141	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.0124	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00472	0.00013	0.00067	"	"	"	"	"
Chrysene	0.00981	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00317	0.00036	0.00067	"	"	"	"	"
Fluoranthene	0.00304	0.00039	0.00067	"	"	"	"	"
Fluorene	ND	0.00029	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N04@6'

10/26/2021 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110539-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00694	0.00029	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.0142	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.93			pH Units	1	B1J2718	10/27/2021	10/28/2021	
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SAR by 20B Saturated Paste

SAR	3.52			SAR	1	B1J2714	10/27/2021	10/28/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.11		0.00500	mmhos/cm	1	B1J2716	10/27/2021	10/28/2021	
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Total Metals by 6020B

Arsenic	3.37	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
Barium	80.4	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N04@6'

10/26/2021 3:30:00PM

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

Y110539-01 (Soil)

Total Metals by 6020B

Cadmium	0.0738	0.0259	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	J
Copper	10.2	0.0806	0.25	"	"	"	"	"	
Lead	8.54	0.031	0.25	"	"	"	"	"	
Nickel	13.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.306	0.103	0.25	"	"	"	"	"	
Silver	0.0715	0.0067	0.25	"	"	"	"	"	J
Zinc	41.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L581907	10/26/2021	10/29/2021	
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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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N05@6'

10/26/2021 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110539-02 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J2617	10/26/2021	10/26/2021	U
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Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.7 %	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.

Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N06@6'

10/26/2021 3:40:00PM

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

Y110539-03 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J2617	10/26/2021	10/26/2021	U
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Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	97.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	46.7 %	29-110	"	"	"

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E07@6'

10/26/2021 3:45:00PM

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

Y110539-04 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J2617	10/26/2021	10/27/2021	U
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Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Total Metals by 6020B

Arsenic	4.07	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E08@6'

10/26/2021 3:50:00PM

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

Y110539-05 (Soil)

GBTEX+TMBs

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1,2,4-Trimethylbenzene	0.0615	0.00200	mg/kg	1	B1J2517	10/26/2021	10/27/2021		

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	97.8 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	186 %	70-130	"	"	"	"	"	"	S-04

Total Metals by 6020B

Arsenic	2.13	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-S04@6'

10/26/2021 3:55:00PM

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

Y110539-06 (Soil)

Total Metals by 6020B

Arsenic	3.05	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-S05@6'

10/26/2021 4:05:00PM

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

Y110539-07 (Soil)

Total Metals by 6020B

Arsenic	1.48	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-S06@6'

10/26/2021 4:10:00PM

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

Y110539-08 (Soil)

Total Metals by 6020B

Arsenic	2.06	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W04@6'

10/26/2021 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110539-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.663	0.201	mg/L	1	B1J2628	10/26/2021	10/27/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J2616	10/26/2021	10/26/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J2517	10/26/2021	10/27/2021	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	101 %	70-130	"	"	"	"	"	"
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W04@6'

10/26/2021 4:15:00PM

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

Y110539-09 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	97.3 %	70-130	B1J25 17	10/26/2021	10/27/2021
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.92	0.499	meq/L	10	[CALC]	10/27/2021	10/28/2021
Magnesium	1.84	0.823	"	"	"	"	"
Sodium	4.62	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000647	0.00014	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	0.000559	0.00021	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	0.000283	0.00027	0.00067	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"
Fluorene	ND	0.00029	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W04@6'

10/26/2021 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110539-09 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	42.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.92			pH Units	1	B1J2718	10/27/2021	10/28/2021	
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SAR by 20B Saturated Paste

SAR	2.99			SAR	1	B1J2714	10/27/2021	10/28/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.900		0.00500	mmhos/cm	1	B1J2716	10/27/2021	10/28/2021	
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Total Metals by 6020B

Arsenic	3.1	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
Barium	184	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W04@6'

10/26/2021 4:15:00PM

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

Y110539-09 (Soil)

Total Metals by 6020B

Cadmium	0.144	0.0259	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	J
Copper	12.7	0.0806	0.25	"	"	"	"	"	
Lead	11.2	0.031	0.25	"	"	"	"	"	
Nickel	12.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.46	0.103	0.25	"	"	"	"	"	
Silver	0.0733	0.0067	0.25	"	"	"	"	"	J
Zinc	50.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L581907	10/26/2021	10/29/2021	
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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W05@6'

10/26/2021 4:20:00PM

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

Y110539-10 (Soil)

Total Metals by 6020B

Arsenic	3.25	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W06@6'

10/26/2021 4:25:00PM

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

Y110539-11 (Soil)

Total Metals by 6020B

Arsenic	2.66	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B10@16'

10/26/2021 4:30:00PM

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

Y110539-12 (Soil)

Total Metals by 6020B

Arsenic	3.13	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B11@16'
10/26/2021 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110539-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B1J2628	10/26/2021	10/27/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J2616	10/26/2021	10/26/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.9 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J2517	10/26/2021	10/27/2021	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	100 %	70-130	"	"	"	"	"	"
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B11@16'

10/26/2021 4:35:00PM

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

Y110539-13 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.9 %	70-130	B1J25 17	10/26/2021	10/27/2021
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.58	0.499	meq/L	10	[CALC]	10/27/2021	10/28/2021
Magnesium	1.30	0.823	"	"	"	"	"
Sodium	2.98	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	ND	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B11@16'

10/26/2021 4:35:00PM

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

Y110539-13 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L581894	10/29/2021	10/29/2021
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.93	pH Units	1	B1J2718	10/27/2021	10/28/2021
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SAR by 20B Saturated Paste

SAR	2.13	SAR	1	B1J2714	10/27/2021	10/28/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.662	0.00500	mmhos/cm	1	B1J2716	10/27/2021	10/28/2021
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Total Metals by 6020B

Arsenic	1.84	0.0855	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B11@16'

10/26/2021 4:35:00PM

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

Y110539-13 (Soil)

Total Metals by 6020B

Barium	55.9	0.042	0.25	mg/Kg	5	L581792	10/28/2021	10/30/2021	
Cadmium	0.125	0.0259	0.25	"	"	"	"	"	J
Copper	8.18	0.0806	0.25	"	"	"	"	"	
Lead	7.56	0.031	0.25	"	"	"	"	"	
Nickel	9.08	0.0633	0.25	"	"	"	"	"	
Selenium	0.373	0.103	0.25	"	"	"	"	"	
Silver	0.0264	0.0067	0.25	"	"	"	"	"	J
Zinc	38.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L581907	10/26/2021	10/29/2021	
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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J2517 - EPA 5030 (soil)										
Blank (B1J2517-BLK1)					Prepared: 10/25/2021 Analyzed: 10/25/2021					
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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J2517 - EPA 5030 (soil)

LCS (B1J2517-BS1)

Prepared: 10/25/2021 Analyzed: 10/25/2021

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
Naphthalene	0.0998	0.0100	"	0.100		99.8	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.230	0.00400	"	0.200		115	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2517 - EPA 5030 (soil)

Matrix Spike (B1J2517-MS1)		Source: Y110506-01			Prepared: 10/25/2021 Analyzed: 10/25/2021					
1,2,4-Trimethylbenzene	0.0438	0.00200	mg/kg	0.0500	0.000720	86.2	70-130			
Naphthalene	0.0402	0.0100	"	0.0500	0.00212	76.2	70-130			
1,3,5-Trimethylbenzene	0.0443	0.00200	"	0.0500	0.000840	87.0	70-130			
Benzene	0.0435	0.00200	"	0.0500	ND	87.0	70-130			
Ethylbenzene	0.0431	0.00200	"	0.0500	ND	86.2	70-130			
m,p-Xylene	0.0795	0.00400	"	0.100	0.00126	78.2	70-130			
o-Xylene	0.0428	0.00200	"	0.0500	ND	85.5	70-130			
Toluene	0.0432	0.00200	"	0.0500	ND	86.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	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 B1J2517 - EPA 5030 (soil)

Matrix Spike Dup (B1J2517-MSD1)		Source: Y110506-01			Prepared: 10/25/2021 Analyzed: 10/25/2021					
1,2,4-Trimethylbenzene	0.0433	0.00200	mg/kg	0.0500	0.000720	85.1	70-130	1.29	20	
Naphthalene	0.0410	0.0100	"	0.0500	0.00212	77.7	70-130	1.82	20	
1,3,5-Trimethylbenzene	0.0435	0.00200	"	0.0500	0.000840	85.3	70-130	1.91	20	
Benzene	0.0423	0.00200	"	0.0500	ND	84.6	70-130	2.84	20	
Ethylbenzene	0.0420	0.00200	"	0.0500	ND	84.1	70-130	2.44	20	
m,p-Xylene	0.0766	0.00400	"	0.100	0.00126	75.3	70-130	3.69	20	
o-Xylene	0.0413	0.00200	"	0.0500	ND	82.7	70-130	3.38	20	
Toluene	0.0415	0.00200	"	0.0500	ND	83.0	70-130	3.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J2616 - EPA 3550B

Blank (B1J2616-BLK1)

Prepared: 10/26/2021 Analyzed: 10/26/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		95.0	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2616 - EPA 3550B

LCS (B1J2616-BS1)

Prepared: 10/26/2021 Analyzed: 10/26/2021

Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000		94.3	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.1	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2616 - EPA 3550B

Matrix Spike (B1J2616-MS1)		Source: Y110524-01			Prepared: 10/26/2021 Analyzed: 10/26/2021					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	74.2	109	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.7	50-150			

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Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J2616 - EPA 3550B

Matrix Spike Dup (B1J2616-MSD1)		Source: Y110524-01			Prepared: 10/26/2021 Analyzed: 10/26/2021					
Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130	20.2	35	
Residual Range Organics (C28-C40)	907	200	"	1000	74.2	83.3	70-130	24.5	35	
Surrogate: o-Terphenyl	41		"	50.0		81.9	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2617 - EPA 5030 (soil)

Blank (B1J2617-BLK1)

Prepared: 10/26/2021 Analyzed: 10/26/2021

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
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		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1J2617 - EPA 5030 (soil)

LCS (B1J2617-BS1)

Prepared: 10/26/2021 Analyzed: 10/26/2021

1,2,4-Trimethylbenzene	0.0973	0.00200	mg/kg	0.100		97.3	70-130			
Naphthalene	0.111	0.0100	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Benzene	0.0945	0.00200	"	0.100		94.5	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100		95.1	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.8	70-130			
o-Xylene	0.0989	0.00200	"	0.100		98.9	70-130			
Toluene	0.0951	0.00200	"	0.100		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2617 - EPA 5030 (soil)

Matrix Spike (B1J2617-MS1)		Source: Y110524-01			Prepared: 10/26/2021 Analyzed: 10/26/2021					
1,2,4-Trimethylbenzene	0.0935	0.00200	mg/kg	0.100	ND	93.5	70-130			
Naphthalene	0.114	0.0100	"	0.100	0.00262	112	70-130			
1,3,5-Trimethylbenzene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
Benzene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
Ethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.4	70-130			
o-Xylene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	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 B1J2617 - EPA 5030 (soil)

Matrix Spike Dup (B1J2617-MSD1)		Source: Y110524-01			Prepared: 10/26/2021 Analyzed: 10/26/2021					
1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130	9.20	20	
Naphthalene	0.107	0.0100	"	0.100	0.00262	105	70-130	6.12	20	
1,3,5-Trimethylbenzene	0.0839	0.00200	"	0.100	ND	83.9	70-130	9.90	20	
Benzene	0.0910	0.00200	"	0.100	ND	91.0	70-130	9.17	20	
Ethylbenzene	0.0849	0.00200	"	0.100	ND	84.9	70-130	8.85	20	
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.5	70-130	8.92	20	
o-Xylene	0.0869	0.00200	"	0.100	ND	86.9	70-130	9.45	20	
Toluene	0.0856	0.00200	"	0.100	ND	85.6	70-130	9.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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 B1J2628 - Default Prep Metals

Blank (B1J2628-BLK1)

Prepared: 10/26/2021 Analyzed: 10/27/2021

Boron	ND	0.200	mg/L							U
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Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1J2716 - NO PREP										
Blank (B1J2716-BLK1)					Prepared: 10/27/2021 Analyzed: 10/28/2021					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B1J2716-DUP1)					Source: Y110539-01 Prepared: 10/27/2021 Analyzed: 10/28/2021					
Specific Conductance (EC)	2.26	0.00500	mmhos/cm		2.11			6.62	25	
Batch B1J2718 - NO PREP										
Duplicate (B1J2718-DUP1)					Source: Y110539-01 Prepared: 10/27/2021 Analyzed: 10/28/2021					
pH	7.68		pH Units		7.93			3.20	25	

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Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L581894 - 3550B

MSD (L 95243-MSD-L581894)		Source: Y110539-01			Prepared: 10/29/2021 Analyzed: 10/29/2021					
2-Methylnaphthalene	0.1	0.00039	mg/Kg	0.166	95243	60.2	30-130	0.9	30	
1-Methylnaphthalene	0.104	0.00033	"	0.166	95243	62.6	30-130	0	30	
Fluoranthene	0.0643	0.00039	"	0.166	0.00304	36.9	30-130	3.5	30	
Pyrene	0.133	0.00059	"	0.166	0.0142	71.5	30-130	3.6	30	
Naphthalene	0.0959	0.000467	"	0.166	95243	57.7	30-130	0.3	30	
Fluorene	0.117	0.00029	"	0.166	95243	70.4	30-130	0.8	30	
Dibenz(a,h)anthracene	0.126	0.00036	"	0.166	0.00317	73.9	30-130	7.4	30	
Chrysene	0.13	0.00027	"	0.166	0.00981	72.4	30-130	0.7	30	
Benzo(k)fluoranthene	0.119	0.00013	"	0.166	0.00472	68.8	30-130	0.8	30	
Anthracene	0.12	0.00033	"	0.166	0.000568	72.2	30-130	1.6	30	
Indeno(1,2,3-cd)pyrene	0.122	0.00029	"	0.166	0.00694	69.3	30-130	16.8	30	
Acenaphthene	0.111	0.0003	"	0.166	95243	66.8	30-130	0.8	30	
Benzo(b)fluoranthene	0.13	0.00021	"	0.166	0.0124	70.8	30-130	4.7	30	
Benzo(a)anthracene	0.131	0.00041	"	0.166	0.00677	74.8	30-130	1.5	30	
Benzo(a)pyrene	0.157	0.00014	"	0.166	0.0141	86	30-130	0	30	
Surrogate: 4-Terphenyl-d14	68.5		"	0.331	214	68.5	33-122			
Surrogate: Nitrobenzene-d5	48		"	0.331	153	48	29-110			
Surrogate: 2-Fluorobiphenyl	58.9		"	0.331	193	58.9	33-115			

MS (L 95243-MS-L581894)		Source: Y110539-01			Prepared: 10/29/2021 Analyzed: 10/29/2021					
Benzo(b)fluoranthene	0.124	0.00021	mg/Kg	0.164	0.0124	68	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.00029	"	0.164	0.00694	58.5	30-130			
Fluorene	0.118	0.00029	"	0.164	95243	71.9	30-130			
Fluoranthene	0.0666	0.00039	"	0.164	0.00304	38.7	30-130			
Dibenz(a,h)anthracene	0.117	0.00036	"	0.164	0.00317	69.4	30-130			
Chrysene	0.131	0.00027	"	0.164	0.00981	73.8	30-130			
Benzo(k)fluoranthene	0.118	0.00013	"	0.164	0.00472	69	30-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L581894 - 3550B

MS (L 95243-MS-L581894)		Source: Y110539-01			Prepared: 10/29/2021 Analyzed: 10/29/2021					
Naphthalene	0.0962	0.000467	mg/Kg	0.164	95243	58.6	30-130			
1-Methylnaphthalene	0.104	0.00033	"	0.164	95243	63.4	30-130			
Benzo(a)anthracene	0.133	0.00041	"	0.164	0.00677	76.9	30-130			
Acenaphthene	0.112	0.0003	"	0.164	95243	68.2	30-130			
Pyrene	0.138	0.00059	"	0.164	0.0142	75.4	30-130			
2-Methylnaphthalene	0.101	0.00039	"	0.164	95243	61.5	30-130			
Benzo(a)pyrene	0.157	0.00014	"	0.164	0.0141	87.1	30-130			
Anthracene	0.122	0.00033	"	0.164	0.000568	74.3	30-130			
Surrogate: 4-Terphenyl-d14	70.5		"	0.329	214	70.5	33-122			
Surrogate: Nitrobenzene-d5	48.6		"	0.329	153	48.6	29-110			
Surrogate: 2-Fluorobiphenyl	59.2		"	0.329	193	59.2	33-115			

LCS (LCS-L581894)		Prepared: 10/29/2021 Analyzed: 10/29/2021								
Naphthalene	0.101	0.000467	mg/Kg	0.167		60.4	30-130			
Anthracene	0.123	0.00033	"	0.167		73.6	30-130			
1-Methylnaphthalene	0.109	0.00033	"	0.167		65.2	30-130			
2-Methylnaphthalene	0.105	0.00039	"	0.167		62.8	30-130			
Acenaphthene	0.113	0.0003	"	0.167		67.6	30-130			
Pyrene	0.129	0.00059	"	0.167		77.2	30-130			
Benzo(b)fluoranthene	0.133	0.00021	"	0.167		79.6	30-130			
Benzo(a)pyrene	0.129	0.00014	"	0.167		77.2	30-130			
Benzo(k)fluoranthene	0.114	0.00013	"	0.167		68.2	30-130			
Fluoranthene	0.128	0.00039	"	0.167		76.6	30-130			
Indeno(1,2,3-cd)pyrene	0.1	0.00029	"	0.167		59.8	30-130			
Chrysene	0.129	0.00027	"	0.167		77.2	30-130			
Dibenz(a,h)anthracene	0.117	0.00036	"	0.167		70	30-130			
Benzo(a)anthracene	0.121	0.00041	"	0.167		72.4	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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L581894 - 3550B										
LCS (LCS-L581894)					Prepared: 10/29/2021 Analyzed: 10/29/2021					
Fluorene	0.119	0.00029	mg/Kg	0.167		71.2	30-130			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 2-Fluorobiphenyl	66		"	0.333		66	33-115			
Surrogate: 4-Terphenyl-d14	72.6		"	0.333		72.6	33-122			
LRB (LRB-L581894)					Prepared: 10/29/2021 Analyzed: 10/29/2021					
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.3		"	0.333		48.3	29-110			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L581792 - 3050B

MSD (L 95255-MSD-L581792)			Source: Y110539-13			Prepared: 10/28/2021 Analyzed: 10/30/2021				
Copper	9.82	0.0806	mg/Kg	2.38	8.18	69	75-125	4.7	80	*
Silver	0.463	0.0067	"	0.476	0.0264	97	75-125	1.9	80	
Selenium	3.69	0.103	"	4.76	0.373	70	75-125	0.5	80	*
Lead	9.47	0.031	"	2.38	7.56	80	75-125	7.4	80	
Zinc	59.9	0.534	"	23.8	38.3	91	75-125	0.3	80	
Cadmium	0.568	0.0259	"	0.476	0.125	119	75-125	2.9	80	
Barium	71.8	0.042	"	4.76	55.9	334	75-125	11.3	80	*
Arsenic	3.35	0.0855	"	2.38	1.84	63	75-125	5.2	80	*
Nickel	11.1	0.0633	"	2.38	9.08	85	75-125	0.8	80	
MS (L 95255-MS-L581792)			Source: Y110539-13			Prepared: 10/28/2021 Analyzed: 10/30/2021				
Zinc	59.7	0.534	mg/Kg	24.1	38.3	89	75-125			
Silver	0.472	0.0067	"	0.482	0.0264	98	75-125			
Selenium	3.71	0.103	"	4.82	0.373	69	75-125			*
Nickel	11.2	0.0633	"	2.41	9.08	88	75-125			
Lead	10.2	0.031	"	2.41	7.56	110	75-125			
Copper	10.3	0.0806	"	2.41	8.18	88	75-125			
Cadmium	0.585	0.0259	"	0.482	0.125	121	75-125			
Arsenic	3.53	0.0855	"	2.41	1.84	70	75-125			*
Barium	64.1	0.042	"	4.82	55.9	170	75-125			*
LCS (LCS-L581792)			Prepared: 10/28/2021 Analyzed: 10/30/2021							
Arsenic	2.37	0.0855	mg/Kg	2.5		95	80-120			
Zinc	23.4	0.534	"	25		94	80-120			
Barium	4.89	0.042	"	5		98	80-120			
Cadmium	0.485	0.0259	"	0.5		97	80-120			
Copper	2.31	0.0806	"	2.5		92	80-120			

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 L581792 - 3050B

LCS (LCS-L581792)

Prepared: 10/28/2021 Analyzed: 10/30/2021

Lead	2.4	0.031	mg/Kg	2.5		96	80-120			
Nickel	2.35	0.0633	"	2.5		94	80-120			
Selenium	4.91	0.103	"	5		98	80-120			
Silver	0.471	0.0067	"	0.5		94	80-120			

LRB (LRB-L581792)

Prepared: 10/28/2021 Analyzed: 10/30/2021

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

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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L581907 -										
DUP (L 95231-DUP)		Source: 95231			Prepared: Analyzed: 10/29/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		95231	-		0	20	
MS (L 95231-MS)		Source: 95231			Prepared: Analyzed: 10/29/2021					
Chromium, Hexavalent	7.36	0.502	mg/Kg	8.23	95231	89	75-125			
LCS (LCS)					Prepared: Analyzed: 10/29/2021					
Chromium, Hexavalent	8.3	0.244	mg/Kg	8		104	75-125			
LRB (LRB)					Prepared: Analyzed: 10/29/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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.

* 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



December 14, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA **Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. December 03, 2021. This project is associated with Origins project number Y112115-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-N07@6'	Y112115-01	Soil	December 3, 2021 14:00	12/03/2021 16:08
Sep01-W07@6'	Y112115-02	Soil	December 3, 2021 14:05	12/03/2021 16:08
Sep01-W08@6'	Y112115-03	Soil	December 3, 2021 14:10	12/03/2021 16:08
Sep01-W09@6'	Y112115-04	Soil	December 3, 2021 14:15	12/03/2021 16:08
Sep01-S07@6'	Y112115-05	Soil	December 3, 2021 14:20	12/03/2021 16:08
Sep01-B12@17'	Y112115-06	Soil	December 3, 2021 14:25	12/03/2021 16:08
Sep01-E09@6'	Y112115-07	Soil	December 3, 2021 14:30	12/03/2021 16:08
Sep01-E10@6'	Y112115-08	Soil	December 3, 2021 14:35	12/03/2021 16:08

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

www.originslaboratory.com

page 1 of 1

Y112115

Project Manager: Brian Sulzberger

Project Name: 31403177.142.05

Project Number: Anderson UPRR 32-9A UP O SA Facility

Samples Collected By: Glenn Thompson

Client: WSP USA

Address:

Telephone Number:

Email Address: KMG Team

ORIGINS
LABORATORY, INC


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	Air Summa Canister #	Other	Asenatic	Barium	Selenium	
Sep01-N0706'	12-3-21	1400	1	X				X				X			Groundwater
Sep01-N0706'		1405	1	X				X				X			Protection
Sep01-N0806'		1410	1	X				X				X			
Sep01-N0906'		1415	1	X				X				X			
Sep01-S0706'		1420	1	X				X				X			
Sep01-B12017		1425	1	X				X				X			
Sep01-E0906'		1430	1	X				X				X			
Sep01-E1006'		1435	1	X				X				X			

Relinquished By: 


Relinquished By: 

Date: 12-3-21

Date:

Time:

Time:

Received By: 

Received By:

Date: 12/3/21

Date:

Time: 1:08

Time:

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

Temp Received: 5.2 Date Results Needed

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 411215

Client: WSP

Client Project ID: Anderson UPRR 32-9A

Checklist Completed by: JAH

Shipped Via: HO

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

Date/time completed: 12/3/21

Airbill #: NA

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 5.2 °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 type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-N07@6'

12/3/2021 2:00:00PM

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

Y112115-01 (Soil)

Total Metals by 6020B

Arsenic	2.38	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021	
Selenium	ND	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W07@6'

12/3/2021 2:05:00PM

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

Y112115-02 (Soil)

Total Metals by 6020B

Arsenic	2.16	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021	
Barium	134	0.042	0.25	"	"	"	"	"	
Selenium	0.103	0.103	0.25	"	"	"	"	"	J

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W08@6'

12/3/2021 2:10:00PM

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

Y112115-03 (Soil)

Total Metals by 6020B

Arsenic	2.85	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-W09@6'

12/3/2021 2:15:00PM

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

Y112115-04 (Soil)

Total Metals by 6020B

Arsenic	2.11	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-S07@6'

12/3/2021 2:20:00PM

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

Y112115-05 (Soil)

Total Metals by 6020B

Arsenic	2.63	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-B12@17'

12/3/2021 2:25:00PM

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

Y112115-06 (Soil)

Total Metals by 6020B

Arsenic	1.64	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021	
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E09@6'

12/3/2021 2:30:00PM

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

Y112115-07 (Soil)

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0164	0.00200	mg/kg	1	B1L0325	12/03/2021	12/04/2021
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Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Sep01-E10@6'

12/3/2021 2:35:00PM

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

Y112115-08 (Soil)

Total Metals by 6020B

Arsenic	2.18	0.0855	0.25	mg/Kg	5	L588920	12/08/2021	12/10/2021
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L0325 - EPA 5030 (soil)										
Blank (B1L0325-BLK1)					Prepared: 12/03/2021 Analyzed: 12/03/2021					
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	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L0325 - EPA 5030 (soil)

LCS (B1L0325-BS1)

Prepared: 12/03/2021 Analyzed: 12/03/2021

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
Naphthalene	0.117	0.0100	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0871	0.00200	"	0.100		87.1	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L0325 - EPA 5030 (soil)

Matrix Spike (B1L0325-MS1)		Source: Y112111-01			Prepared: 12/03/2021 Analyzed: 12/03/2021					
1,2,4-Trimethylbenzene	0.0523	0.00200	mg/kg	0.100	0.0293	23.0	70-130			QM-07
Naphthalene	0.118	0.0100	"	0.100	0.0332	84.6	70-130			
1,3,5-Trimethylbenzene	0.0505	0.00200	"	0.100	ND	50.5	70-130			QM-07
Benzene	0.0698	0.00200	"	0.100	ND	69.8	70-130			QM-07
Ethylbenzene	0.0732	0.00200	"	0.100	ND	73.2	70-130			
m,p-Xylene	0.137	0.00400	"	0.200	ND	68.4	70-130			QM-07
o-Xylene	0.0729	0.00200	"	0.100	ND	72.9	70-130			
Toluene	0.0757	0.00200	"	0.100	ND	75.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.19		"	0.125		150	70-130			QM-07

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L0325 - EPA 5030 (soil)

Matrix Spike Dup (B1L0325-MSD1)		Source: Y112111-01			Prepared: 12/03/2021 Analyzed: 12/03/2021					
1,2,4-Trimethylbenzene	0.0657	0.00200	mg/kg	0.100	0.0293	36.4	70-130	22.8	20	QM-07
Naphthalene	0.126	0.0100	"	0.100	0.0332	93.0	70-130	6.90	20	
1,3,5-Trimethylbenzene	0.0633	0.00200	"	0.100	ND	63.3	70-130	22.5	20	QM-07
Benzene	0.0757	0.00200	"	0.100	ND	75.7	70-130	8.03	20	
Ethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130	14.9	20	
m,p-Xylene	0.160	0.00400	"	0.200	ND	80.2	70-130	15.9	20	
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130	13.4	20	
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130	10.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.19		"	0.125		152	70-130			QM-07

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 L588920 - 3050B

MSD (L 92224-MSD-L588920)		Source: 92224			Prepared: 12/08/2021 Analyzed: 12/10/2021					
Selenium	3.6	0.103	mg/Kg	4.98	<0.103	72	75-125	4.2	80	*
Arsenic	2.82	0.0855	"	2.49	0.881	78	75-125	3.9	80	
Barium	37.6	0.042	"	4.98	28.9	175	75-125	10.9	80	*
MS (L 92224-MS-L588920)		Source: 92224			Prepared: 12/08/2021 Analyzed: 12/10/2021					
Selenium	3.45	0.103	mg/Kg	4.63	<0.103	75	75-125			
Arsenic	2.71	0.0855	"	2.31	0.881	79	75-125			
Barium	33.7	0.042	"	4.63	28.9	104	75-125			
LCS (LCS-L588920)					Prepared: 12/08/2021 Analyzed: 12/10/2021					
Arsenic	2.25	0.0855	mg/Kg	2.5		90	80-120			
Barium	5.14	0.042	"	5		103	80-120			
Selenium	4.68	0.103	"	5		94	80-120			
LRB (LRB-L588920)					Prepared: 12/08/2021 Analyzed: 12/10/2021					
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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.

January 11, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A UP O SA **Project Number - 31403177.142.05**

Attached are your analytical results for KMG - Anderson UPRR 32-9A UP O SA received by Origins Laboratory, Inc. December 30, 2021. This project is associated with Origins project number Y112672-01.

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-N08@6'	Y112672-01	Soil	December 30, 2021 11:00	12/30/2021 13:50
SEP01-W10@6'	Y112672-02	Soil	December 30, 2021 11:05	12/30/2021 13:50
SEP01-B13@17'	Y112672-03	Soil	December 30, 2021 11:10	12/30/2021 13:50
SEP01-E11@6'	Y112672-04	Soil	December 30, 2021 11:15	12/30/2021 13:50
SEP01-S08@6'	Y112672-05	Soil	December 30, 2021 11:20	12/30/2021 13:50
SEP01-E12@6'	Y112672-06	Soil	December 30, 2021 11:25	12/30/2021 13:50
SEP01-E13@6'	Y112672-07	Soil	December 30, 2021 11:30	12/30/2021 13:50
SEP01-B14@14'	Y112672-08	Soil	December 30, 2021 11:35	12/30/2021 13:50

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

www.originslaboratory.com

4112072

ORIGINS
LABORATORY, INC

Client: WSP USA

Address: 4600 W 60th Ave

Arvada, CO 80003

Telephone Number: 303 881 9943

Email Address: KMG Group

Fax: 303.265.9645

Project Manager: Brian Sulzberger

Project Name: Anderson UPRR 32-9A-UP O SA Facility

Project Number: 31403177.142

Samples Collected By: Kyle Mathis

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SEP01-110806	12/30/21	1100	1									Ground water Protection
SEP01-110806		1105	1									
SEP01-110817		1110	1									
SEP01-110817		1115	2									
SEP01-110806		1120	1									
SEP01-112006		1125	1									
SEP01-113006		1130	1									
SEP01-113404		1135	1									
Relinquished By: Kyle Mathis	Date: 12/30/21	Time: 1300		Received By: KMG	Date: 12/30/21	Time: 1350		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				

Temp Received: 13.0 Date Results Needed

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4112672

Client: WSP

Client Project ID: Anderson UPRR 32-9A FA

Checklist Completed by: UH

Shipped Via: HO

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

Date/time completed: 12/30/12

Airbill #: NA

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 150 °C / °C / °C / °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⁾ ?				same day
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Were all samples received intact ⁽¹⁾ ?	<u>/</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<u>/</u>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-N08@6'

12/30/2021 11:00:00AM

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

Y112672-01 (Soil)

Total Metals by 6020B

Arsenic	3.12	0.0855	0.25	mg/Kg	5	L592977	01/05/2022	01/05/2022
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-W10@6'

12/30/2021 11:05:00AM

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

Y112672-02 (Soil)

Total Metals by 6020B

Arsenic	1.99	0.0855	0.25	mg/Kg	5	L592977	01/05/2022	01/05/2022	
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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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-B13@17'

12/30/2021 11:10:00AM

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

Y112672-03 (Soil)

Total Metals by 6020B

Arsenic	1.39	0.0855	0.25	mg/Kg	5	L592977	01/05/2022	01/05/2022	
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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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-E11@6'
12/30/2021 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112672-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.317	0.198	mg/L	1	B2A0305	01/03/2022	01/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L3009	12/30/2021	12/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L3010	12/30/2021	12/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.506	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-E11@6'

12/30/2021 11:15:00AM

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

Y112672-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 105 % 70-130 B1L30 10 12/30/2021 12/31/2021

Metals by Saturated Paste by EPA 6010

Calcium	3.19	0.499	meq/L	10	[CALC]	01/03/2022	01/04/2022
Magnesium	1.66	0.823	"	"	"	"	"
Sodium	3.11	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L592919	01/04/2022	01/05/2022
2-Methylnaphthalene	0.000419	0.00039	0.00067	"	"	"	"	J
Acenaphthene	0.000573	0.0003	0.00067	"	"	"	"	J
Anthracene	0.002	0.00033	0.00067	"	"	"	"	
Benzo(a)anthracene	0.01	0.00041	0.00067	"	"	"	"	
Benzo(a)pyrene	0.00608	0.00024	0.00067	"	"	"	"	
Benzo(b)fluoranthene	0.00672	0.00021	0.00067	"	"	"	"	
Benzo(k)fluoranthene	0.00348	0.00013	0.00067	"	"	"	"	
Chrysene	0.00867	0.00027	0.00067	"	"	"	"	
Dibenz(a,h)anthracene	0.00276	0.00036	0.00067	"	"	"	"	
Fluoranthene	0.0298	0.00039	0.00067	"	"	"	"	
Fluorene	0.00242	0.00029	0.00067	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00467	0.00029	0.00067	"	"	"	"	

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-E11@6'
12/30/2021 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y112672-04 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.000467	0.00067	mg/Kg	1	L592919	01/04/2022	01/05/2022	
Pyrene	0.0314	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.89			pH Units	1	B2A0304	01/03/2022	01/04/2022	
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SAR by 20B Saturated Paste

SAR	2.00			SAR	1	B2A0301	01/03/2022	01/04/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.830		0.00500	mmhos/cm	1	B2A0303	01/03/2022	01/04/2022	
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Total Metals by 6020B

Arsenic	1.62	0.0855	0.25	mg/Kg	5	L592977	01/05/2022	01/05/2022	
Barium	133	0.042	0.25	"	"	"	"	"	
Cadmium	0.211	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-E11@6'

12/30/2021 11:15:00AM

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

Y112672-04 (Soil)

Total Metals by 6020B

Copper	7.12	0.0806	0.25	mg/Kg	5	L592977	01/05/2022	01/05/2022	
Lead	6.26	0.031	0.25	"	"	"	"	"	
Nickel	8.96	0.0633	0.25	"	"	"	"	"	
Selenium	0.127	0.103	0.25	"	"	"	"	"	J
Silver	0.0225	0.0067	0.25	"	"	"	"	"	J
Zinc	27.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L593631	12/30/2021	01/10/2022	
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-S08@6'

12/30/2021 11:20:00AM

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

Y112672-05 (Soil)

Total Metals by 6020B

Arsenic	1.99	0.0855	0.25	mg/Kg	5	L592977	01/05/2022	01/05/2022
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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-E12@6'

12/30/2021 11:25:00AM

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

Y112672-06 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L3010	12/30/2021	12/31/2021	U
------------------------	----	---------	-------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	"	"	"
Surrogate: Toluene-d8	94.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-E13@6'

12/30/2021 11:30:00AM

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

Y112672-07 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L3010	12/30/2021	12/31/2021	U
------------------------	----	---------	-------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

SEP01-B14@14'

12/30/2021 11:35:00AM

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

Y112672-08 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L3010	12/30/2021	12/31/2021	U
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Surrogate: 1,2-Dichloroethane-d4	124 %	70-130	"	"	"
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3009 - EPA 3550B										
Blank (B1L3009-BLK1)					Prepared: 12/30/2021 Analyzed: 12/31/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		70.0	50-150			

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3009 - EPA 3550B

LCS (B1L3009-BS1)

Prepared: 12/30/2021 Analyzed: 12/31/2021

Diesel (C10-C28)	852	50.0	mg/kg	1000		85.2	70-130			
Residual Range Organics (C28-C40)	934	200	"	1000		93.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.0	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3009 - EPA 3550B

Matrix Spike (B1L3009-MS1)		Source: Y112671-01			Prepared: 12/30/2021 Analyzed: 12/31/2021					
Diesel (C10-C28)	740	50.0	mg/kg	1000	ND	74.0	70-130			
Residual Range Organics (C28-C40)	783	200	"	1000	ND	78.3	70-130			
Surrogate: o-Terphenyl	36		"	49.8		71.9	50-150			

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3009 - EPA 3550B

Matrix Spike Dup (B1L3009-MSD1)		Source: Y112671-01			Prepared: 12/30/2021 Analyzed: 12/31/2021					
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130	9.64	35	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130	11.3	35	
Surrogate: o-Terphenyl	38		"	49.8		77.2	50-150			

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3010 - EPA 5030 (soil)										
Blank (B1L3010-BLK1)					Prepared: 12/30/2021 Analyzed: 12/31/2021					
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	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3010 - EPA 5030 (soil)

LCS (B1L3010-BS1)

Prepared: 12/30/2021 Analyzed: 12/31/2021

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.3	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
Toluene	0.0955	0.00200	"	0.100		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3010 - EPA 5030 (soil)

Matrix Spike (B1L3010-MS1)		Source: Y112671-01			Prepared: 12/30/2021 Analyzed: 12/31/2021					
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
Naphthalene	0.0966	0.0100	"	0.100	0.00350	93.1	70-130			
1,3,5-Trimethylbenzene	0.0836	0.00200	"	0.100	0.000420	83.2	70-130			
Benzene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Ethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.1	70-130			
o-Xylene	0.0842	0.00200	"	0.100	ND	84.2	70-130			
Toluene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B1L3010 - EPA 5030 (soil)

Matrix Spike Dup (B1L3010-MSD1)		Source: Y112671-01			Prepared: 12/30/2021 Analyzed: 12/31/2021					
1,2,4-Trimethylbenzene	0.0806	0.00200	mg/kg	0.100	ND	80.6	70-130	5.55	20	
Naphthalene	0.0927	0.0100	"	0.100	0.00350	89.2	70-130	4.14	20	
1,3,5-Trimethylbenzene	0.0791	0.00200	"	0.100	0.000420	78.7	70-130	5.58	20	
Benzene	0.0867	0.00200	"	0.100	ND	86.7	70-130	4.79	20	
Ethylbenzene	0.0775	0.00200	"	0.100	ND	77.5	70-130	5.93	20	
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.1	70-130	6.09	20	
o-Xylene	0.0795	0.00200	"	0.100	ND	79.5	70-130	5.69	20	
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130	4.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 B2A0303 - NO PREP

Blank (B2A0303-BLK1)

Prepared: 01/03/2022 Analyzed: 01/04/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

Duplicate (B2A0303-DUP1)

Source: Y112660-01

Prepared: 01/03/2022 Analyzed: 01/04/2022

Specific Conductance (EC) 0.786 0.00500 mmhos/cm 0.759 3.49 25

Batch B2A0304 - NO PREP

Duplicate (B2A0304-DUP1)

Source: Y112660-01

Prepared: 01/03/2022 Analyzed: 01/04/2022

pH 7.64 pH Units 8.39 9.36 25

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L592919 - 3550B

MSD (L 97048-MSD-L592919)		Source: 97048			Prepared: 01/04/2022 Analyzed: 01/05/2022					
Pyrene	0.125	0.00059	mg/Kg	0.166	0.00156	74.3	30-130	1.6	30	
Dibenz(a,h)anthracene	0.159	0.00036	"	0.166	0.000675	95.3	30-130	14.1	30	
Fluoranthene	0.136	0.00039	"	0.166	0.00093	81.3	30-130	1.4	30	
Fluorene	0.128	0.00029	"	0.166	<0.000290	77.1	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.14	0.00029	"	0.166	0.00139	83.5	30-130	14.5	30	
Chrysene	0.132	0.00027	"	0.166	0.00177	78.4	30-130	2.2	30	
Acenaphthene	0.118	0.0003	"	0.166	<0.000300	71	30-130	0	30	
Naphthalene	0.106	0.000467	"	0.166	<0.000467	63.8	30-130	0	30	
Benzo(b)fluoranthene	0.102	0.00021	"	0.166	0.00106	60.8	30-130	3.6	30	
Benzo(a)pyrene	0.138	0.00024	"	0.166	0.00159	82.1	30-130	4.4	30	
Anthracene	0.123	0.00033	"	0.166	<0.000330	74	30-130	2.4	30	
2-Methylnaphthalene	0.117	0.00039	"	0.166	<0.000390	70.4	30-130	0	30	
1-Methylnaphthalene	0.117	0.00033	"	0.166	<0.000330	70.4	30-130	1.7	30	
Benzo(k)fluoranthene	0.111	0.00013	"	0.166	0.000589	66.8	30-130	9.4	30	
Benzo(a)anthracene	0.127	0.00041	"	0.166	0.000442	76.5	30-130	0.7	30	
Surrogate: Nitrobenzene-d5	43.6		"	0.332	140	43.6	29-110			
Surrogate: 4-Terphenyl-d14	65.3		"	0.332	207	65.3	33-122			
Surrogate: 2-Fluorobiphenyl	61.4		"	0.332	194	61.4	33-115			

MS (L 97048-MS-L592919)		Source: 97048			Prepared: 01/04/2022 Analyzed: 01/05/2022					
1-Methylnaphthalene	0.115	0.00033	mg/Kg	0.164	<0.000330	70.1	30-130			
Benzo(b)fluoranthene	0.0983	0.00021	"	0.164	0.00106	59.2	30-130			
Benzo(a)pyrene	0.132	0.00024	"	0.164	0.00159	79.5	30-130			
Benzo(a)anthracene	0.126	0.00041	"	0.164	0.000442	76.8	30-130			
Anthracene	0.12	0.00033	"	0.164	<0.000330	73.1	30-130			
Acenaphthene	0.118	0.0003	"	0.164	<0.000300	71.9	30-130			
2-Methylnaphthalene	0.117	0.00039	"	0.164	<0.000390	71.3	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L592919 - 3550B

MS (L 97048-MS-L592919)		Source: 97048			Prepared: 01/04/2022 Analyzed: 01/05/2022					
Fluoranthene	0.134	0.00039	mg/Kg	0.164	0.00093	81.1	30-130			
Pyrene	0.123	0.00059	"	0.164	0.00156	74	30-130			
Dibenz(a,h)anthracene	0.138	0.00036	"	0.164	0.000675	83.7	30-130			
Fluorene	0.128	0.00029	"	0.164	<0.000290	78	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.00029	"	0.164	0.00139	72.9	30-130			
Naphthalene	0.106	0.000467	"	0.164	<0.000467	64.6	30-130			
Benzo(k)fluoranthene	0.101	0.00013	"	0.164	0.000589	61.5	30-130			
Chrysene	0.129	0.00027	"	0.164	0.00177	77.5	30-130			
Surrogate: 4-Terphenyl-d14	65.3		"	0.329	207	65.3	33-122			
Surrogate: 2-Fluorobiphenyl	60.7		"	0.329	194	60.7	33-115			
Surrogate: Nitrobenzene-d5	43.7		"	0.329	140	43.7	29-110			

LCS (LCS-L592919)		Prepared: 01/04/2022 Analyzed: 01/05/2022								
Benzo(a)pyrene	0.128	0.00024	mg/Kg	0.167		76.6	30-130			
Benzo(a)anthracene	0.121	0.00041	"	0.167		72.4	30-130			
Anthracene	0.121	0.00033	"	0.167		72.4	30-130			
Acenaphthene	0.115	0.0003	"	0.167		68.8	30-130			
Benzo(b)fluoranthene	0.1	0.00021	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.107	0.00039	"	0.167		64	30-130			
Benzo(k)fluoranthene	0.101	0.00013	"	0.167		60.4	30-130			
Chrysene	0.127	0.00027	"	0.167		76	30-130			
1-Methylnaphthalene	0.108	0.00033	"	0.167		64.6	30-130			
Fluorene	0.125	0.00029	"	0.167		74.8	30-130			
Fluoranthene	0.13	0.00039	"	0.167		77.8	30-130			
Naphthalene	0.0995	0.000467	"	0.167		59.5	30-130			
Pyrene	0.118	0.00059	"	0.167		70.6	30-130			
Dibenz(a,h)anthracene	0.0651	0.00036	"	0.167		38.9	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L592919 - 3550B

LCS (LCS-L592919)

Prepared: 01/04/2022 Analyzed: 01/05/2022

Indeno(1,2,3-cd)pyrene	0.0953	0.00029	mg/Kg	0.167		57	30-130			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.333		55.8	33-115			
Surrogate: 4-Terphenyl-d14	61.5		"	0.333		61.5	33-122			
Surrogate: Nitrobenzene-d5	42		"	0.333		42	29-110			

LRB (LRB-L592919)

Prepared: 01/04/2022 Analyzed: 01/05/2022

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	40.5		"	0.333		40.5	29-110			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	33-115			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			

Origins Laboratory, Inc.

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

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

Brian Sulzberger
Project Number: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L592977 - 3050B

MSD (L 97092-MSD-L592977)			Source: 97092			Prepared: 01/05/2022 Analyzed: 01/05/2022				
Barium	202	0.042	mg/Kg	4.99	189	261	75-125	8.2	80	*
Cadmium	0.733	0.0259	"	0.499	0.278	91	75-125	8	80	
Copper	13.7	0.0806	"	2.49	11.4	92	75-125	3.7	80	
Lead	12.3	0.031	"	2.49	9.95	94	75-125	1.6	80	
Nickel	18.1	0.0633	"	2.49	13.6	181	75-125	7.4	80	*
Selenium	3.78	0.103	"	4.99	0.257	71	75-125	1.3	80	*
Silver	0.507	0.0067	"	0.499	0.0423	102	75-125	3.2	80	
Zinc	69.9	0.534	"	24.9	42.9	108	75-125	2.1	80	
Arsenic	6.22	0.0855	"	2.49	4.54	67	75-125	7.3	80	*
MS (L 97092-MS-L592977)			Source: 97092			Prepared: 01/05/2022 Analyzed: 01/05/2022				
Arsenic	5.78	0.0855	mg/Kg	2.49	4.54	50	75-125			*
Silver	0.491	0.0067	"	0.498	0.0423	99	75-125			
Zinc	68.4	0.534	"	24.9	42.9	103	75-125			
Nickel	16.8	0.0633	"	2.49	13.6	129	75-125			*
Lead	12.1	0.031	"	2.49	9.95	86	75-125			
Copper	13.2	0.0806	"	2.49	11.4	72	75-125			*
Cadmium	0.676	0.0259	"	0.498	0.278	80	75-125			
Selenium	3.73	0.103	"	4.98	0.257	70	75-125			*
Barium	186	0.042	"	4.98	189	NR	75-125			*
LCS (LCS-L592977)			Prepared: 01/05/2022 Analyzed: 01/05/2022							
Selenium	4.59	0.103	mg/Kg	5		92	80-120			
Silver	0.5	0.0067	"	0.5		100	80-120			
Nickel	2.58	0.0633	"	2.5		103	80-120			
Lead	2.47	0.031	"	2.5		99	80-120			
Copper	2.49	0.0806	"	2.5		100	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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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 L592977 - 3050B

LCS (LCS-L592977)

Prepared: 01/05/2022 Analyzed: 01/05/2022

Cadmium	0.51	0.0259	mg/Kg	0.5		102	80-120			
Barium	4.95	0.042	"	5		99	80-120			
Arsenic	2.36	0.0855	"	2.5		94	80-120			
Zinc	25	0.534	"	25		100	80-120			

LRB (LRB-L592977)

Prepared: 01/05/2022 Analyzed: 01/05/2022

Zinc	ND	2.5	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	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: 31403177.142.05
Project: KMG - Anderson UPRR 32-9A UP O SA

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 L593631 -										
DUP (L 97074-DUP)		Source: Y112672-04			Prepared: Analyzed: 01/10/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 97074-MS)		Source: Y112672-04			Prepared: Analyzed: 01/10/2022					
Chromium, Hexavalent	ND	0.245	mg/Kg	8.08	<0.245	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 01/10/2022					
Chromium, Hexavalent	6.25	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 01/10/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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: 31403177.142.05

Project: KMG - Anderson UPRR 32-9A UP O SA

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.

January 20, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Anderson UPRR 32-9A-UP SA Facility **Project Number - [none]**

Attached are your analytical results for KMG - Anderson UPRR 32-9A-UP SA Facility received by Origins Laboratory, Inc. January 14, 2022. This project is associated with Origins project number Y201267-01.

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: [none]

Project: KMG - Anderson UPRR 32-9A-UP SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep-01-N09@6'	Y201267-01	Soil	January 14, 2022 13:04	01/14/2022 14:46

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.*

Project: KMG - Anderson UPRR 32-9A-UP SA Facility

ORIGINS

LABORATORY, INC

501047

www.originslaboratory.com

page 1 of 1

Client: WSP USA

Project Manager: Brian Schreyer

Address: 4600 W 60th Ave

Project Name: Anderson UPR 32-7A-UP SA Facility

Arvada, CO 80003

Project Number: _____

Telephone Number: _____

Samples Collected By: AK

Email Address: WSP@wsp.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Asstomic		
Sep 01 - 10706 C	7-14-21	1304	1	X					X				X	Groundwater Protection
														2
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: <u>Chris S. Long</u>	Date: <u>4/14/22</u>	Time: <u>1446</u>	Received By: <u>[Signature]</u>	Date: <u>11/14/22</u>	Time: <u>1446</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>								
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>								

Temp Received: 4.1

Date Results Needed

Origins Laboratory, Inc.

Menk

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: [none]

Project: KMG - Anderson UPRR 32-9A-UP SA Facility

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y701267

Client: WSP

Client Project ID: Anderson UPRR

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 1/14/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / _____ °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"/>			
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 1/17/22

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: [none]

Project: KMG - Anderson UPRR 32-9A-UP SA Facility

Sep-01-N09@6'

1/14/2022 1:04:00PM

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

Y201267-01 (Soil)

Total Metals by 6020B

Arsenic	1.8	0.0855	0.25	mg/Kg	5	L594832	01/17/2022	01/19/2022
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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: [none]
Project: KMG - Anderson UPRR 32-9A-UP SA Facility

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
Batch L594832 - 3050B										
MSD (L 96445-MSD-L594832)		Source: 96445			Prepared: 01/17/2022 Analyzed: 01/19/2022					
Arsenic	3.45	0.0855	mg/Kg	2.5	2.21	50	75-125	10.9	80	*
MS (L 96445-MS-L594832)		Source: 96445			Prepared: 01/17/2022 Analyzed: 01/19/2022					
Arsenic	3.85	0.0855	mg/Kg	2.43	2.21	67	75-125			*
LCS (LCS-L594832)					Prepared: 01/17/2022 Analyzed: 01/19/2022					
Arsenic	2.33	0.0855	mg/Kg	2.5		93	80-120			
LRB (LRB-L594832)					Prepared: 01/17/2022 Analyzed: 01/19/2022					
Arsenic	ND	0.25	mg/Kg				-			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: [none]

Project: KMG - Anderson UPRR 32-9A-UP SA
Facility

Notes and Definitions

* 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.