

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@6'	E01@3'	Pot Hole 01@6'	BG01@6'	B02@9'
		4/20/2021	4/20/2021	4/20/2021	4/22/2021	5/24/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.4	52.8	1.9	0.0	1.2
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	3.37	0.557	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	148	137	NA	NA
TPH-RRO* (mg/kg)	500	<100	268	326	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.11	1.93	2.35	1.02	NA
Sodium Adsorption Ratio (SAR)	6	3.31	3.19	7.62	4.37	NA
pH, Lab (pH units)	6-8.3	7.95	7.83	7.75	7.58	NA
Boron (mg/L)	2	0.3	1.1	0.9	0.4	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	<0.00200	NA	NA
Toluene (mg/kg)	0.69	<0.00200	<0.00200	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	<0.00200	<0.00200	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	<0.00200	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	0.00230	<0.00200	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	<0.00200	NA	NA
Acenaphthene (mg/Kg)	0.55	<0.00067	0.0345	0.00268	NA	NA
Anthracene (mg/Kg)	5.8	<0.00067	0.0505	0.00708	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	<0.00067	<0.00335	0.000939	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	<0.00067	0.00413	0.00231	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00067	0.00246	0.000663	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	<0.00067	0.0051	0.00214	NA	NA
Chrysene (mg/Kg)	9	<0.00067	0.0099	0.00455	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	<0.00335	<0.00067	NA	NA
Fluoranthene (mg/Kg)	8.9	<0.00067	0.0117	0.00255	NA	NA
Fluorene (mg/Kg)	0.54	<0.00067	0.0896	0.0104	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00067	0.00193	0.00119	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	0.000491	0.386	0.0277	NA	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	0.000693	0.441	0.0295	NA	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	0.028	0.00786	NA	<0.00067
Pyrene (mg/Kg)	1.3	<0.00067	0.0529	0.0094	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.605	2.75	1.3	0.463	1.92
Barium (mg/Kg)	82	43	77.5	52.3	38.6	NA
Cadmium (mg/Kg)	0.38	0.0528	0.311	0.175	<0.25	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<1	<1	<1	<0.5	NA
Copper (mg/Kg)	46	3.01	42.9	7.01	2.52	NA
Lead (mg/Kg)	14	4.18	217	9.59	3.2	7.34
Nickel (mg/Kg)	26	3.14	7.31	4.69	2.88	NA
Selenium (mg/Kg)	0.26	<0.25	0.307	0.171	0.157	0.213
Silver (mg/Kg)	0.8	0.0219	0.0883	0.0566	0.0158	NA
Zinc (mg/Kg)	370	14.8	76	29.7	12.5	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	BG02@9'	E02@6.5'	N02@6.5'	Pothole01-B01@7'	Pothole01-E01@6'
		5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021
Photoionization Detector Reading						
PID (ppm)	NA	NA	2.3	0.1	1.3	0.1
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	1.82	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	3.86	NA	NA	5.07	6.73
pH, Lab (pH units)	6-8.3	7.83	NA	NA	NA	NA
Boron (mg/L)	2	0.4	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	<0.00067	<0.00067	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.00067	<0.00067	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	NA	<0.00067	<0.00067	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.949	0.993	0.624	0.707	1.1
Barium (mg/Kg)	82	36.3	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	0.0674	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<0.5	NA	NA	NA	NA
Copper (mg/Kg)	46	4.48	NA	NA	NA	NA
Lead (mg/Kg)	14	5.14	3.54	3.07	NA	NA
Nickel (mg/Kg)	26	3.74	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	0.171	0.177	0.142	NA	NA
Silver (mg/Kg)	0.8	0.0298	NA	NA	NA	NA
Zinc (mg/Kg)	370	18.5	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Pothole01-N01@6'	Pothole01-S01@6'	Pothole01-W01@6'	S02@6.5'	W02@6.5'
		5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.1	0.0	0.1	0.3	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	7.25	5.99	6.29	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	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.923	1.26	0.926	0.862	0.465
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	3.39	2.98
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	0.139	<0.25
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
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B03@12'	E03@12'	Native-BG03@12'	Pothole-E02@5'	Pothole-N02@5'
		6/11/2021	6/11/2021	6/11/2021	6/11/2021	6/11/2021
Photoionization Detector Reading						
PID (ppm)	NA	10.0	8.9	NA	1.2	6.7
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	1.32	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	4.63	4.43	5.71
pH, Lab (pH units)	6-8.3	NA	NA	7.92	NA	NA
Boron (mg/L)	2	NA	NA	0.182	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	1.16	0.188	0.838	NA	NA
Barium (mg/Kg)	82	NA	NA	35.7	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	0.0496	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	<0.5	NA	NA
Copper (mg/Kg)	46	NA	NA	3.77	NA	NA
Lead (mg/Kg)	14	NA	NA	4.1	NA	NA
Nickel (mg/Kg)	26	NA	NA	4.19	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	<0.25	NA	NA
Silver (mg/Kg)	0.8	NA	NA	0.0139	NA	NA
Zinc (mg/Kg)	370	NA	NA	16.9	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Pothole-S02@5'	Pothole-W02@5'	B04@15'	Pothole-W03@5'	B04@20'
		6/11/2021	6/11/2021	7/2/2021	7/2/2021	10/15/2021
Photoionization Detector Reading						
PID (ppm)	NA	1.2	106.7	0.2	2.5	3.1
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	44.7	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	306	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	140	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	3.27	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	8.61	NA	8.48	NA
pH, Lab (pH units)	6-8.3	NA	7.79	NA	NA	NA
Boron (mg/L)	2	NA	0.642	NA	NA	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	<0.00200	NA	NA	NA
Toluene (mg/kg)	0.69	NA	<0.00200	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	<0.00200	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	<0.00200	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	<0.00200	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	0.0257	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	0.0177	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	0.00304	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	0.00277	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.00335	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	0.00481	NA	NA	NA
Chrysene (mg/Kg)	9	NA	0.0052	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.00335	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	0.00736	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	0.0679	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	0.003	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	0.0468	NA	<0.00067	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	0.00469	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	0.00243	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	0.0342	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.611	1.18	1.35	1.17	1.58
Barium (mg/Kg)	82	NA	41	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	0.185	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<2.5	NA	NA	NA
Copper (mg/Kg)	46	NA	7.12	NA	NA	NA
Lead (mg/Kg)	14	NA	10	NA	NA	NA
Nickel (mg/Kg)	26	NA	3.64	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	<0.25	NA	NA	NA
Silver (mg/Kg)	0.8	NA	0.0824	NA	NA	NA
Zinc (mg/Kg)	370	NA	30.7	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG04@10'	Native-BG04@19'	Native-BG05@10'	Native-BG05@19'	Native-BG06@10'
		10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.7	1.2	1.8	0.8	2.7
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	1.88	1.25	1.07	1.41	1.45
Sodium Adsorption Ratio (SAR)	6	4.13	4.61	4.36	4.49	5.00
pH, Lab (pH units)	6-8.3	7.87	7.91	7.86	7.76	7.96
Boron (mg/L)	2	0.298	0.256	0.258	0.479	<0.198
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	1.06	1.74	1.16	2.78	2.83
Barium (mg/Kg)	82	47.1	43.8	82.7	64.6	46.5
Cadmium (mg/Kg)	0.38	0.0884	0.0619	0.0478	0.108	0.0811
Chromium, Hexavalent (mg/Kg)	0.00067	<0.505	<0.5	<0.501	<0.5	<0.503
Copper (mg/Kg)	46	5.21	5.13	6.18	8.35	5.01
Lead (mg/Kg)	14	6.06	6.32	6.39	8.15	5.99
Nickel (mg/Kg)	26	3.98	5.46	6.76	8.96	5.92
Selenium (mg/Kg)	0.26	0.189	0.2	0.17	0.253	0.203
Silver (mg/Kg)	0.8	0.0456	0.013	0.016	0.0176	0.011
Zinc (mg/Kg)	370	23.1	22.1	26.8	36.2	23.5

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG06@19'	Pothole-W04@5'	Pothole-W05@5'	Pothole-W06@5'
		10/15/2021	10/15/2021	11/1/2021	11/10/2021
Photoionization Detector Reading					
PID (ppm)	NA	1.4	2.7	3.2	0.0
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	2.26	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	4.71	7.16	7.82	5.25
pH, Lab (pH units)	6-8.3	7.86	NA	NA	NA
Boron (mg/L)	2	<0.199	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	1.34	NA	NA	NA
Barium (mg/Kg)	82	42.1	NA	NA	NA
Cadmium (mg/Kg)	0.38	0.047	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<0.518	NA	NA	NA
Copper (mg/Kg)	46	3.86	NA	NA	NA
Lead (mg/Kg)	14	4.47	NA	NA	NA
Nickel (mg/Kg)	26	4.5	NA	NA	NA
Selenium (mg/Kg)	0.26	0.119	NA	NA	NA
Silver (mg/Kg)	0.8	0.0095	NA	NA	NA
Zinc (mg/Kg)	370	18.6	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
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
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
B01 @ 6'	Wellhead Excavation	4/20/2021	0.4
North Wall	Wellhead Excavation	4/20/2021	1.3
E01 @ 3'	Wellhead Excavation	4/20/2021	52.8
South Wall	Wellhead Excavation	4/20/2021	1.1
West Wall	Wellhead Excavation	4/20/2021	2.0
B02 @ 9'	Wellhead Excavation	5/24/2021	1.2
N02 @ 6.5'	Wellhead Excavation	5/24/2021	0.1
S02 @ 6.5'	Wellhead Excavation	5/24/2021	0.3
W02 @ 6.5'	Wellhead Excavation	5/24/2021	0.0
E02 @ 6.5'	Wellhead Excavation	5/24/2021	2.3
B03 @ 12'	Wellhead Excavation	6/11/2021	10.1
E03 @ 6.5'	Wellhead Excavation	6/11/2021	8.9
B04 @ 15'	Wellhead Excavation	7/2/2021	0.2
B04 @ 20'	Wellhead Excavation	10/15/2021	3.1
Separator01	Separator Riser	4/20/2021	1.9
Pothole01 @ 6'	Pothole Assessment	4/20/2021	17.3
Pothole01-N01 @ 6'	Pothole Assessment	5/24/2021	0.1
Pothole01-S01 @ 6'	Pothole Assessment	5/24/2021	0.0
Pothole01-W01 @ 6'	Pothole Assessment	5/24/2021	0.1
Pothole01-E01 @ 6'	Pothole Assessment	5/24/2021	0.2
Pothole01-Base01 @ 7'	Pothole Assessment	5/24/2021	1.3
Pothole-N02 @ 5'	Pothole Assessment	6/11/2021	6.7
Pothole-E02 @ 5'	Pothole Assessment	6/11/2021	1.2
Pothole-S02 @ 5'	Pothole Assessment	6/11/2021	1.2
Pothole-W02 @ 5'	Pothole Assessment	6/11/2021	106.7
Pothole-W03 @ 5'	Pothole Assessment	7/2/2021	2.5
Pothole-W04 @ 5'	Pothole Assessment	10/15/2021	2.7
Pothole-W05 @ 5'	Pothole Assessment	11/1/2021	3.2
Pothole-W06 @ 5'	Pothole Assessment	11/10/2021	0.0
SB01 @ 1'	Flowline Screening	5/7/2021	0.0
SB01 @ 2'	Flowline Screening	5/7/2021	0.0
SB01 @ 4'	Flowline Screening	5/7/2021	0.0
SB02 @ 1'	Flowline Screening	5/7/2021	0.0
SB02 @ 2'	Flowline Screening	5/7/2021	0.0
SB02 @ 4'	Flowline Screening	5/7/2021	0.0
SB03	Flowline Screening	5/7/2021	NA
BG01 @ 6'	Background	4/22/2021	0.0
BG02 @ 9'	Background	5/24/2021	NA
Native-BG03 @ 12'	Background	6/11/2021	NA
Native-BG04 @ 10'	Background	10/15/2021	0.7
Native-BG04 @ 19'	Background	10/15/2021	1.2
Native-BG05 @ 10'	Background	10/15/2021	1.8
Native-BG05 @ 19'	Background	10/15/2021	0.8
Native-BG06 @ 10'	Background	10/15/2021	2.7
Native-BG06 @ 19'	Background	10/15/2021	1.4

Notes:

PID - Photoionization Detector

ppm - parts per million

NA - Not analyzed with PID; Sampled for inorganic parameters only.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SCHMID 2-34 WELLHEAD
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	2,875,000	250,000	467,500	
GW01	4/22/2021	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	2,220,000	441,000	568,000	9
Pothole01-GW01	5/24/2021	<4.00	<4.00	<4.00	<4.00	<16.0	<4.00	<4.00	2,300,000	237,000	374,000	9

Notes: COGCC - Colorado Oil and Gas Conservation Commission
µg/L - micrograms per liter
ft bgs - feet below ground surface
NA - not analyzed/not available
Inorganic parameters based on background sample (Pothole01-GW01) concentration x 1.25

October 28, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Schmid 2-34 Wellhead

Project Number - 31403177.06

Attached are your analytical results for KMG - Schmid 2-34 Wellhead received by Origins Laboratory, Inc. October 15, 2021. This project is associated with Origins project number Y110353-01.

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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pothole-W04@5'	Y110353-01	Soil	October 15, 2021 13:00	10/15/2021 15:35
B04@20'	Y110353-02	Soil	October 15, 2021 14:05	10/15/2021 15:35
Native-BG04@10'	Y110353-03	Soil	October 15, 2021 13:20	10/15/2021 15:35
Native-BG04@19'	Y110353-04	Soil	October 15, 2021 13:24	10/15/2021 15:35
Native-BG05@10'	Y110353-05	Soil	October 15, 2021 13:30	10/15/2021 15:35
Native-BG05@19'	Y110353-06	Soil	October 15, 2021 13:35	10/15/2021 15:35
Native-BG06@10'	Y110353-07	Soil	October 15, 2021 13:43	10/15/2021 15:35
Native-BG06@19'	Y110353-08	Soil	October 15, 2021 13:48	10/15/2021 15:35

Origins Laboratory, Inc.



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

WSP USA

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Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y110353 Client: WSP

Client Project ID: Schmid 2-34

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

Date/time completed: 10/15/21 Airbill #: N/A

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

Cooler Number/Temperature: 1 3.7 °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"/>			
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 10/15/21

Origins Laboratory, Inc.

[Signature]

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Pothole-W04@5'

10/15/2021 1:00:00PM

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

Y110353-01 (Soil)

Metals by Saturated Paste

Calcium	6.12	0.499	meq/L	10	[CALC]	10/25/2021	10/26/2021
Magnesium	2.49	0.823	"	"	"	"	"
Sodium	14.9	0.435	"	"	"	"	"

SAR by 20B Saturated Paste

SAR	7.16		SAR	1	B1J2514	"	"
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

B04@20'

10/15/2021 2:05:00PM

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

Y110353-02 (Soil)

Total Metals by 6020B

Arsenic	1.58	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021
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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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG04@10'

10/15/2021 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y110353-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.298	0.198	mg/L	1	B1J1517	10/15/2021	10/18/2021
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Metals by Saturated Paste

Calcium	4.61	0.499	meq/L	10	[CALC]	10/15/2021	10/18/2021
Magnesium	2.10	0.823	"	"	"	"	"
Sodium	7.56	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.87	pH Units	1	B1J1519	10/15/2021	10/17/2021
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SAR by 20B Saturated Paste

SAR	4.13	SAR	1	B1J1518	10/15/2021	10/18/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.88	0.00500	mmhos/cm	1	B1J1520	10/15/2021	10/17/2021
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Total Metals by 6020B

Arsenic	1.06	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021
Barium	47.1	0.042	0.25	"	"	"	"	"
Cadmium	0.0884	0.0259	0.25	"	"	"	"	"
Copper	5.21	0.0806	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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG04@10'**10/15/2021 1:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y110353-03 (Soil)**Total Metals by 6020B**

Lead	6.06	0.031	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021	
Nickel	3.98	0.0633	0.25	"	"	"	"	"	
Selenium	0.189	0.103	0.25	"	"	"	"	"	J
Silver	0.0456	0.0067	0.25	"	"	"	"	"	J
Zinc	23.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L579624	10/15/2021	10/18/2021	
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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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG04@19'

10/15/2021 1:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y110353-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.256	0.197	mg/L	1	B1J1517	10/15/2021	10/18/2021
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Metals by Saturated Paste

Calcium	2.51	0.499	meq/L	10	[CALC]	10/15/2021	10/18/2021
Magnesium	0.987	0.823	"	"	"	"	"
Sodium	6.10	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.91	pH Units	1	B1J1519	10/15/2021	10/17/2021
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SAR by 20B Saturated Paste

SAR	4.61	SAR	1	B1J1518	10/15/2021	10/18/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.25	0.00500	mmhos/cm	1	B1J1520	10/15/2021	10/17/2021
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Total Metals by 6020B

Arsenic	1.74	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021
Barium	43.8	0.042	0.25	"	"	"	"	"
Cadmium	0.0619	0.0259	0.25	"	"	"	"	"
Copper	5.13	0.0806	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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Native-BG04@19'

10/15/2021 1:24:00PM

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

Y110353-04 (Soil)

Total Metals by 6020B

Lead	6.32	0.031	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021	
Nickel	5.46	0.0633	0.25	"	"	"	"	"	
Selenium	0.2	0.103	0.25	"	"	"	"	"	J
Silver	0.013	0.0067	0.25	"	"	"	"	"	J
Zinc	22.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L579624	10/15/2021	10/18/2021	
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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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG05@10'

10/15/2021 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y110353-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.258	0.198	mg/L	1	B1J1517	10/15/2021	10/18/2021
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Metals by Saturated Paste

Calcium	2.20	0.499	meq/L	10	[CALC]	10/15/2021	10/18/2021
Magnesium	0.979	0.823	"	"	"	"	"
Sodium	5.50	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.86	pH Units	1	B1J1519	10/15/2021	10/17/2021
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SAR by 20B Saturated Paste

SAR	4.36	SAR	1	B1J1518	10/15/2021	10/18/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.07	0.00500	mmhos/cm	1	B1J1520	10/15/2021	10/17/2021
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Total Metals by 6020B

Arsenic	1.16	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021
Barium	82.7	0.042	0.25	"	"	"	"	"
Cadmium	0.0478	0.0259	0.25	"	"	"	"	"
Copper	6.18	0.0806	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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG05@10'**10/15/2021 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y110353-05 (Soil)**Total Metals by 6020B**

Lead	6.39	0.031	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021	
Nickel	6.76	0.0633	0.25	"	"	"	"	"	
Selenium	0.17	0.103	0.25	"	"	"	"	"	J
Silver	0.016	0.0067	0.25	"	"	"	"	"	J
Zinc	26.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L579624	10/15/2021	10/18/2021	
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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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG05@19'

10/15/2021 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y110353-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.479	0.199	mg/L	1	B1J1517	10/15/2021	10/18/2021
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Metals by Saturated Paste

Calcium	3.21	0.499	meq/L	10	[CALC]	10/15/2021	10/18/2021
Magnesium	1.39	0.823	"	"	"	"	"
Sodium	6.82	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.76		pH Units	1	B1J1519	10/15/2021	10/17/2021
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SAR by 20B Saturated Paste

SAR	4.49		SAR	1	B1J1518	10/15/2021	10/18/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.41	0.00500	mmhos/cm	1	B1J1520	10/15/2021	10/17/2021
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Total Metals by 6020B

Arsenic	2.78	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021
Barium	64.6	0.042	0.25	"	"	"	"	"
Cadmium	0.108	0.0259	0.25	"	"	"	"	"
Copper	8.35	0.0806	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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Native-BG05@19'

10/15/2021 1:35:00PM

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

Y110353-06 (Soil)

Total Metals by 6020B

Lead	8.15	0.031	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021	
Nickel	8.96	0.0633	0.25	"	"	"	"	"	
Selenium	0.253	0.103	0.25	"	"	"	"	"	
Silver	0.0176	0.0067	0.25	"	"	"	"	"	J
Zinc	36.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L579624	10/15/2021	10/18/2021	
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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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG06@10'

10/15/2021 1:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y110353-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1J1517	10/15/2021	10/18/2021
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Metals by Saturated Paste

Calcium	3.12	0.499	meq/L	10	[CALC]	10/15/2021	10/18/2021
Magnesium	1.24	0.823	"	"	"	"	"
Sodium	7.38	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.96		pH Units	1	B1J1519	10/15/2021	10/17/2021
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SAR by 20B Saturated Paste

SAR	5.00		SAR	1	B1J1518	10/15/2021	10/18/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.45	0.00500	mmhos/cm	1	B1J1520	10/15/2021	10/17/2021
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Total Metals by 6020B

Arsenic	2.83	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021
Barium	46.5	0.042	0.25	"	"	"	"	"
Cadmium	0.0811	0.0259	0.25	"	"	"	"	"
Copper	5.01	0.0806	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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Native-BG06@10'

10/15/2021 1:43:00PM

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

Y110353-07 (Soil)

Total Metals by 6020B

Lead	5.99	0.031	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021	
Nickel	5.92	0.0633	0.25	"	"	"	"	"	
Selenium	0.203	0.103	0.25	"	"	"	"	"	J
Silver	0.011	0.0067	0.25	"	"	"	"	"	J
Zinc	23.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L579624	10/15/2021	10/18/2021	
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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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Native-BG06@19'

10/15/2021 1:48:00PM

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

Y110353-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1J1517	10/15/2021	10/18/2021
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Metals by Saturated Paste

Calcium	5.90	0.499	meq/L	10	[CALC]	10/15/2021	10/18/2021
Magnesium	2.41	0.823	"	"	"	"	"
Sodium	9.61	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.86		pH Units	1	B1J1519	10/15/2021	10/17/2021
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SAR by 20B Saturated Paste

SAR	4.71		SAR	1	B1J1518	10/15/2021	10/18/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.26	0.00500	mmhos/cm	1	B1J1520	10/15/2021	10/17/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.518	mg/Kg	1	L580222	10/15/2021	10/20/2021
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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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Native-BG06@19'

10/15/2021 1:48:00PM

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

Y110353-08 (Soil)

Total Metals by 6020B

Arsenic	1.34	0.0855	0.25	mg/Kg	5	L579777	10/18/2021	10/19/2021	
Barium	42.1	0.042	0.25	"	"	"	"	"	
Cadmium	0.047	0.0259	0.25	"	"	"	"	"	J
Copper	3.86	0.0806	0.25	"	"	"	"	"	
Lead	4.47	0.031	0.25	"	"	"	"	"	
Nickel	4.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.119	0.103	0.25	"	"	"	"	"	J
Silver	0.0095	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1J1519 - NO PREP										
Duplicate (B1J1519-DUP1)		Source: Y110339-07			Prepared: 10/15/2021 Analyzed: 10/17/2021					
pH	7.76		pH Units		7.76			0.00	25	
Batch B1J1520 - NO PREP										
Blank (B1J1520-BLK1)		Prepared: 10/15/2021 Analyzed: 10/17/2021								
Specific Conductance (EC)	0.00100	0.00500	mmhos/cm							
Duplicate (B1J1520-DUP1)		Source: Y110339-07			Prepared: 10/15/2021 Analyzed: 10/17/2021					
Specific Conductance (EC)	0.284	0.00500	mmhos/cm		0.280			1.38	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L580222 -										
DUP (L 86698-DUP)	Source: Y110353-08				Prepared: Analyzed: 10/20/2021					
Chromium, Hexavalent	ND	0.252	mg/Kg		<0.518		-	0	20	
MS (L 86698-MS)	Source: Y110353-08				Prepared: Analyzed: 10/20/2021					
Chromium, Hexavalent	6.48	0.247	mg/Kg	8.12	<0.247	80	75-125			
LCS (LCS)					Prepared: Analyzed: 10/20/2021					
Chromium, Hexavalent	7.64	0.244	mg/Kg	8		96	75-125			
LRB (LRB)					Prepared: Analyzed: 10/20/2021					
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: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

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 L579777 - 3050B

MSD (L 86740-MSD-L579777)			Source: 86740		Prepared: 10/18/2021 Analyzed: 10/20/2021					
Lead	13.3	0.031	mg/Kg	2.45	11.3	82	75-125	3.8	80	
Zinc	89.3	0.534	"	24.5	67.1	91	75-125	0.1	80	
Silver	0.552	0.0067	"	0.489	0.0655	113	75-125	7.3	80	
Nickel	17.4	0.0633	"	2.45	15.4	82	75-125	3.5	80	
Copper	14.5	0.0806	"	2.45	12.8	69	75-125	0.6	80	*
Cadmium	0.726	0.0259	"	0.489	0.229	148	75-125	3.2	80	*
Barium	139	0.042	"	4.89	134	102	75-125	2.1	80	
Arsenic	5.22	0.0855	"	2.45	3.63	65	75-125	1.3	80	I*
Selenium	3.57	0.103	"	4.89	0.383	65	75-125	0.5	80	I*
MS (L 86740-MS-L579777)			Source: 86740		Prepared: 10/18/2021 Analyzed: 10/20/2021					
Zinc	89.2	0.534	mg/Kg	24.3	67.1	91	75-125			
Selenium	3.59	0.103	"	4.87	0.383	66	75-125			I*
Arsenic	5.15	0.0855	"	2.43	3.63	62	75-125			I*
Barium	136	0.042	"	4.87	134	41	75-125			*
Cadmium	0.703	0.0259	"	0.487	0.229	144	75-125			*
Copper	14.6	0.0806	"	2.43	12.8	74	75-125			*
Lead	12.8	0.031	"	2.43	11.3	62	75-125			*
Nickel	16.8	0.0633	"	2.43	15.4	58	75-125			*
Silver	0.513	0.0067	"	0.487	0.0655	105	75-125			
LCS (LCS-L579777)			Prepared: 10/18/2021 Analyzed: 10/19/2021							
Zinc	23.3	0.534	mg/Kg	25		93	80-120			
Barium	4.94	0.042	"	5		99	80-120			
Cadmium	0.461	0.0259	"	0.5		92	80-120			
Copper	2.34	0.0806	"	2.5		94	80-120			
Lead	2.41	0.031	"	2.5		96	80-120			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

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 L579777 - 3050B

LCS (LCS-L579777)

Prepared: 10/18/2021 Analyzed: 10/19/2021

Nickel	2.38	0.0633	mg/Kg	2.5		95	80-120			
Selenium	4.9	0.103	"	5		98	80-120			
Silver	0.497	0.0067	"	0.5		99	80-120			
Arsenic	2.35	0.0855	"	2.5		94	80-120			

LRB (LRB-L579777)

Prepared: 10/18/2021 Analyzed: 10/19/2021

Zinc	ND	2.5	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	0.0487	0.25	"				-			J

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.06
Project: KMG - Schmid 2-34 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L579624 -										
DUP (L 86689-DUP)		Source: 86689			Prepared: Analyzed: 10/18/2021					
Chromium, Hexavalent	ND	1.24	mg/Kg		<2.54		-	0	20	
MS (L 86689-MS)		Source: 86689			Prepared: Analyzed: 10/18/2021					
Chromium, Hexavalent	4.29	1.24	mg/Kg	8.11	<1.24	53	75-125			*

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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

I* [Undefined]

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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 04, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Schmid 2-34 Wellhead

Project Number - 31403177.06

Attached are your analytical results for KMG - Schmid 2-34 Wellhead received by Origins Laboratory, Inc. November 01, 2021. This project is associated with Origins project number Y111034-01.

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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pothole-W05@5'	Y111034-01	Soil	November 1, 2021 11:40	11/01/2021 16:50

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

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111034

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page 1 of 1

Client: WSP USA
 Project Manager: Brian Sulzberger
 Address: 4600 W 60th Ave
Arvada, CO 80003
 Telephone Number: 303-449-9143
 Email Address: Kmg Group
 Project Name: Schmid 2-34 Wellhead
 Project Number: 31403177.06
 Samples Collected By: Kyle Mathison

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 Canister #		
Potable-W2505	11/12/11	11:40	2	X					X			Blank Water Protocol 1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: <u>Kyle Mathison</u>	Date: <u>11/12/11</u>	Time: <u>16:48</u>	Received By: <u>WSP</u>	Date: <u>11/12/11</u>	Time: <u>16:50</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Temp Received: 12.4 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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 411034

Client: WSP

Client Project ID: Schmid 2-34-WH

Checklist Completed by: WJH

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

Date/time completed: 11/1/11

Airbill #: WA


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

Cooler Number/Temperature: 1 / 12.4 °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"/>		<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)

11/1/11
 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: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Pothole-W05@5'

11/1/2021 11:40:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.

Y111034-01 (Soil)

Metals by Saturated Paste

Calcium	8.94	0.499	meq/L	10	[CALC]	KAP	11/02/2021	11/03/2021
Magnesium	3.83	0.823	"	"	"	KAP	"	"
Sodium	19.8	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	7.82		SAR	1	B1K0209	KAP	"	"
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.06

Project: KMG - Schmid 2-34 Wellhead

Notes and Definitions

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.



November 16, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Schmidt 2-34 Wellhead

Project Number - Task 06.05

Attached are your analytical results for KMG - Schmidt 2-34 Wellhead received by Origins Laboratory, Inc. November 10, 2021. This project is associated with Origins project number Y111201-01.

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: Task 06.05

Project: KMG - Schmidt 2-34 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pothole W06@5'	Y111201-01	Soil	November 10, 2021 7:45	11/10/2021 15:03

Origins Laboratory, Inc.



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

Page 3 of 7

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: Task 06.05

Project: KMG - Schmidt 2-34 Wellhead

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4111801

Client: WSP

Client Project ID: Schmidt 2-34 WH

Checklist Completed by: JH

Shipped Via: HD

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

Date/time completed: 11/10/11

Airbill #: NA

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

Cooler Number/Temperature: 1 13.6 °C °C °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⁾ ?	<u>✓</u>			
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: Task 06.05

Project: KMG - Schmidt 2-34 Wellhead

Pothole W06@5'

11/10/2021 7:45:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.

Y111201-01 (Soil)

Metals by Saturated Paste

Calcium	3.02	0.499	meq/L	10	[CALC]	KAP	11/11/2021	11/12/2021
Magnesium	1.62	0.823	"	"	"	KAP	"	"
Sodium	7.99	0.435	"	"	"	KAP	"	"

SAR by 20B Saturated Paste

SAR	5.25		SAR	1	B1K1106	KAP	"	"
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: Task 06.05

Project: KMG - Schmidt 2-34 Wellhead

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: Task 06.05

Project: KMG - Schmidt 2-34 Wellhead

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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