

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
LATIGO WELL #38 PW RELEASE
ADAMS COUNTY, COLORADO
COLORADO INTERSTATE GAS COMPANY, LLC

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
PW-Spill-2023-1	9/6/2023	0.5	<0.100	<4.00	<4.00	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.0200
PW-Spill-2023-2	9/6/2023	0.5	<0.100	11.8	58.5	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.0200
PW-Spill-2023-3	9/6/2023	0.5	<0.100	4.85	22.7	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.0200
PW-Spill-2023-4	9/6/2023	0.5	<0.100	<4.00	7.57	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.0200
PW-Spill-2023-5	9/6/2023	0.5	<0.100	121.6	39.7	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.0200
PW-Spill-2023-6	9/6/2023	0.5	<0.100	<4.00	15.8	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.0200

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
LATIGO WELL #38 PW RELEASE
ADAMS COUNTY, COLORADO
COLORADO INTERSTATE GAS COMPANY, LLC

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
PW-Spill-2023-1	9/6/2023	0.5	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.00600
PW-Spill-2023-2	9/6/2023	0.5	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.00600
PW-Spill-2023-3	9/6/2023	0.5	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.00600
PW-Spill-2023-4	9/6/2023	0.5	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.00600
PW-Spill-2023-5	9/6/2023	0.5	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.00600
PW-Spill-2023-6	9/6/2023	0.5	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.00600

TABLE 2-3
 SOIL SAMPLE ANALYTICAL RESULTS
 SOIL SUITABILITY FOR RECLAMATION
 LATIGO WELL #38 PW RELEASE
 ADAMS COUNTY, COLORADO
 COLORADO INTERSTATE GAS COMPANY, LLC

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
WELLHEAD EXCAVATION SAMPLES						
PW-Spill-2023-1	9/6/2023	0.5	0.244	0.445	8.05	<0.200
PW-Spill-2023-2	9/6/2023	0.5	0.284	0.153	8.10	0.211
PW-Spill-2023-3	9/6/2023	0.5	0.374	1.15	8.29	0.439
PW-Spill-2023-4	9/6/2023	0.5	0.330	2.27	8.49	0.543
PW-Spill-2023-5	9/6/2023	0.5	0.356	0.632	8.19	0.505
PW-Spill-2023-6	9/6/2023	0.5	0.258	0.237	8.22	0.36
PW-Spill-2023-BG-1	9/6/2023	0.5	0.274	0.126	8.04	0.416
PW-Spill-2023-BG-2	9/6/2023	0.5	0.270	0.0805	7.95	0.380
PW-Spill-2023-BG-3	9/6/2023	0.5	0.224	0.138	8.06	0.446

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
LATIGO WELL #38 PW RELEASE
ADAMS COUNTY, COLORADO
COLORADO INTERSTATE GAS COMPANY, LLC

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WELLHEAD EXCAVATION SAMPLES												
PW-Spill-2023-1	9/6/2023	0.5	4.38	93.3	<1.00	<1.00	6.65	6.34	7.23	<2.50	<0.500	27.0
PW-Spill-2023-2	9/6/2023	0.5	4.63	151	<1.00	<1.00	12.7	37.7	11.5	<2.50	<0.500	52.2
PW-Spill-2023-3	9/6/2023	0.5	5.84	163	<1.00	<1.00	12.8	15.7	17.2	<2.50	<0.500	58.5
PW-Spill-2023-4	9/6/2023	0.5	5.25	150	<1.00	<1.00	11.9	12.9	15.4	<2.50	<0.500	52.1
PW-Spill-2023-5	9/6/2023	0.5	4.64	170	<1.00	<1.00	17.3	10.1	11.8	<2.50	<0.500	44.7
PW-Spill-2023-6	9/6/2023	0.5	4.30	142	<1.00	<1.00	12.2	9.41	11	<2.50	<0.500	38.6
PW-Spill-2023-BG-1	9/6/2023	0.5	5.46	140	<1.00	<1.00	13.2	12.4	13.4	<2.50	<0.500	46.3
PW-Spill-2023-BG-2	9/6/2023	0.5	4.82	170	<1.00	<1.00	11.7	11.2	13.8	<2.50	<0.500	47.6
PW-Spill-2023-BG-3	9/6/2023	0.5	3.42	66.4	<1.00	<1.00	6.54	6.66	8.41	<2.50	<0.500	28.1
Highest BG times 1.25			6.825	212.5	1.25	NA	16.5	15.5	17.25	NA	NA	59.5

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
LATIGO WELL #38 PW RELEASE
ADAMS COUNTY, COLORADO
COLORADO INTERSTATE GAS COMPANY, LLC

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level