

**TABLE 1**  
**Soil Sample and Field Screening Information**  
**Box Elder Farms 1 Wellhead and Production Facility. Adams County, CO**

Sample Information				
Sample ID	Depth	Sample Date	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	Decimal Degree (NAD83)	
WH01@8	8	1/11/2024	39.954872	-104.653758
FLR1@4	4	1/11/2024	39.954874	-104.653755
WH01-N@0.5	0.5	1/11/2024	39.954890	-104.653758
WH01-S@0.5	0.5	1/11/2024	39.954863	-104.653756
WH01-W@0.5	0.5	1/11/2024	39.954877	-104.653776
WH01-E@0.5	0.5	1/11/2024	39.954880	-104.653733
SEP01-FL@4	4	1/11/2024	39.955154	-104.654115
SEP01-DL@4	4	1/11/2024	39.955172	-104.654134
WDL01@4	4	1/11/2024	39.954929	-104.654163
PWV01@5	5	1/11/2024	39.954923	-104.654168
PWV01-E@3	3	1/11/2024	39.954922	-104.654151
PWV01-S@3	3	1/11/2024	39.954915	-104.654168
PWV01-W@3	3	1/11/2024	39.954923	-104.654180
AST01@1	1	1/11/2024	39.954895	-104.654102
MH01@0.5	0.5	1/11/2024	39.955093	-104.654068
BKG01	4, 6, 8	1/11/2024	39.954784	-104.654685
BKG02	4, 6, 8	1/11/2024	39.954985	-104.654656
BKG03	4, 6, 8	1/11/2024	39.955129	-104.654665
BKG04	4, 6, 8	1/11/2024	39.955277	-104.654539

Notes:

ft-bgs - feet below ground surface

WH - Wellhead

FLR- Flowline Riser

**TABLE 2**  
**Soil Analytical Results Summary Table - Organics**  
**Box Elder Farms 1 Wellhead and Production Facility. Adams County, CO**

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
ECMC RSSL -->				1.2	490	5.8	58	2	30	27	500	500	500	500
ECMC GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
WH01@8	8	1/11/2024	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
FLR1@4	4	1/11/2024	0.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
SEP01-FL@4	4	1/11/2024	0.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
SEP01-DL@4	4	1/11/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
WDL01@4	4	1/11/2024	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
PWV01@5	5	1/11/2024	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	220	150	370
AST01@1	1	1/11/2024	0.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50

Notes:

GRO - Gasoline Range Organics  
DRO - Diesel Range Organics  
ORO - Oil Range Organics  
TPH - Total Petroleum Hydrocarbons  
PID - Photo Ionization Detector  
TMB - Trimethylbenzene  
ft-bgs - feet below ground surface  
To be removed by excavation

ppm - parts per million  
ECMC - Energy and Carbon Management Commission  
BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene  
RSSL - Residential Soil Screening Level  
GWSSL - Groundwater Soil Screening Level  
< - indicates result is below the laboratory reporting limit  
mg/kg - milligrams per kilogram

WH - Wellhead  
FLR- Flowline Riser  
SEP - Separator  
WDL - Water Dump Line  
AST - Above Ground Storage Tank  
PWV - Produced Water Vessel



TABLE 3  
Soil Analytical Results Summary Table - PAHs  
Box Elder Farms 1 Wellhead and Production Facility, Adams County, CO

Sample Information				PAHs													
Sample ID	Depth	Sample Date	PID Field Screening	Acenaphthene	Anthracene	Benz(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-methylnaphthalene	2-methylnaphthalene	Pyrene
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg													
ECMC RSSL -->				360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
ECMC GWSSL -->				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
WH01@8	8	1/11/2024	0.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLR01@4	4	1/11/2024	0.1	0.0152	0.0546	0.112	0.0685	0.0283	0.0535	0.0927	0.00611	0.235	0.0109	0.0385	<0.00500	<0.00500	0.230
SEP01-FL@4	4	1/11/2024	0.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01-DL@4	4	1/11/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
WDL01@4	4	1/11/2024	0.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01@5	5	1/11/2024	0.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST01@1	1	1/11/2024	0.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

ft-bgs - feet below ground surface  
PID - Photo Ionization Detector  
ppm - parts per million  
mg/kg - milligrams per kilogram  
To be removed by excavation

ECMC - Energy and Carbon Management Commission  
RSSL - Residential Soil Screening Level  
GWSSL - Groundwater Soil Screening Level  
< - indicates result is below the laboratory reporting limit  
Red- Above ECMC Table 915-1 GWSSL

WH - Wellhead  
FLR- Flowline Riser  
SEP - Separator  
WDL - Water Dump Line  
AST - Above Ground Storage Tank





TABLE 4  
Soil Analytical Results Summary Table - Inorganics  
Box Elder Farms 1 Wellhead and Production Facility. Adams County, CO

Sample Information				Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	PID Field Screening	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	ppm	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
ECMC RSSL -->				<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC GWSSL -->				<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
1.25x Average Background				NA	NA	8.52	NA	1.00	98.61	NA	NA	NA	NA	NA	NA	NA	NA
WH01@8	8	1/11/2024	0.2	0.147	0.343	9.01	<2.00	0.913	135	<0.200	<0.30	2.02	8.08	2.48	<0.260	0.0346	8.10
FLR01@4	4	1/11/2024	0.1	0.154	0.120	8.11	<2.00	1.17	76.3	<0.200	<0.30	1.67	7.78	2.34	<0.260	0.0294	7.35
SEP01-FL@4	4	1/11/2024	0.1	0.0370	0.0180	7.72	<2.00	0.807	65.4	<0.200	<0.30	1.64	6.12	1.65	<0.260	0.0384	6.81
SEP01-DL@4	4	1/11/2024	0.5	0.225	1.14	3.60	<2.00	1.00	38.3	<0.200	<0.30	1.63	12.3	1.37	<0.260	0.0217	7.45
WDL01@4	4	1/11/2024	0.2	0.227	1.22	9.15	<2.00	0.987	78.0	<0.200	<0.30	1.65	5.99	2.03	<0.260	0.0346	7.42
PWV01@5	5	1/11/2024	0.2	0.435	1.20	9.78	<2.00	1.15	177	<0.200	<0.30	2.10	7.77	2.91	<0.260	0.0279	9.17
AST01@1	1	1/11/2024	0.3	0.377	0.0405	5.13	<2.00	0.593	55.1	<0.200	<0.30	2.88	9.37	1.08	<0.260	0.101	9.01
BKG01@4	4	1/11/2024	0.3			7.12		0.784	86.0								
BKG01@6	6	1/11/2024	0.2			7.69		0.985	88.7								
BKG01@8	8	1/11/2024	0.2			8.32		0.771	87.1								
BKG02@4	4	1/11/2024	0.4			8.50		0.737	82.7								
BKG02@6	6	1/11/2024	0.3			8.37		0.829	108								
BKG02@8	8	1/11/2024	0.3			8.42		0.864	96.9								
BKG03@4	4	1/11/2024	0.4			8.41		0.812	77.4								
BKG03@6	6	1/11/2024	0.2			8.48		0.791	77.3								
BKG03@8	8	1/11/2024	0.3			8.48		0.776	70.6								
BKG04@4	4	1/11/2024	0.2			7.57		0.654	55.2								
BKG04@6	6	1/11/2024	0.6			8.46		0.810	59.9								
BKG04@8	8	1/11/2024	0.2			8.52		0.792	56.9								

Notes:

PID - Photo Ionization Detector  
EC - Electrical Conductivity  
SAR - Sodium adsorption ratio  
ft-bgs - feet below ground surface  
ppm - parts per million  
Not analyzed  
To be removed by excavation

ECMC - Energy and Carbon Management Commission  
RSSL - Residential Soil Screening Level  
GWSSL - Groundwater Soil Screening Level  
mmhos/cm - millimeters of mercury per centimeter  
mg/l - milligrams per liter  
mg/kg - milligrams per kilogram  
< - indicates result is below the laboratory reporting limit  
Red- Above ECMC Table 915-1 GWSSL  
Green- Above ECMC Table 915-1 GWSSL, representative of background levels

WH - Wellhead  
FLR- Flowline Riser  
SEP - Separator  
PWV - Produced Water Vessel  
WDL - Water Dump Line  
AST - Above Ground Storage Tank  
BKG - Background

