

Federal 63N65W 4NESE Multi Well Pad

NESE Sec. 4-T3N-R65W

Facility ID: 311323

Remediation Project #: 31210

F19 Data Package

April 2024

Prepared by Tasman, Inc.



On behalf of Crestone Peak Resources Operating, LLC



PHOTO LOG



Photographic Log

<p>Equipment ID: Equipment Type:</p>	<p>Equipment ID: Equipment Type:</p>				
<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>	<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>
<p>Notes/Conditions: Soil sampling and screening locations.</p>			<p>Notes/Conditions: Soil sampling and screening locations.</p>		



Photographic Log

<p>☀ 100°E (T) ● 40°15'9"N, 104°39'43"W ±16ft ▲ 4804ft</p>			<p>☀ 64°NE (T) ● 40°15'8"N, 104°39'43"W ±16ft ▲ 4805ft</p>		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling locations.			Notes/Conditions: Soil sampling location.		



Photographic Log

<p>☉ 76°E (T) ● 40°15'8"N, 104°39'43"W ±16ft ▲ 4805ft</p>			<p>☉ 115°SE (T) ● 40°15'8"N, 104°39'43"W ±16ft ▲ 4805ft</p>		
<p>22 Apr 2024 15:23:04</p>			<p>22 Apr 2024 15:28:59</p>		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling location.			Notes/Conditions: Soil sampling location.		



Photographic Log

10°N (T) ● 40°15'9"N, 104°39'42"W ±16ft ▲ 4805ft			83°E (T) ● 40°15'9"N, 104°39'42"W ±49ft ▲ 4812ft		
22 Apr 2024 15:31:13			22 Apr 2024 16:30:02		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling location.			Notes/Conditions: Soil sampling location.		



Photographic Log

<p>☉ 116°SE (T) ● 40°15'9"N, 104°39'42"W ±16ft ▲ 4805ft</p>			<p>☉ 220°SW (T) ● 40°15'9"N, 104°39'42"W ±16ft ▲ 4804ft</p>		
<p>FL-B02@2 X</p> <p>22 Apr 2024, 15:31:45</p>			<p>ECD-FL-B02@3 X</p> <p>22 Apr 2024, 16:08:55</p>		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling location.			Notes/Conditions: Soil sampling location.		



Photographic Log

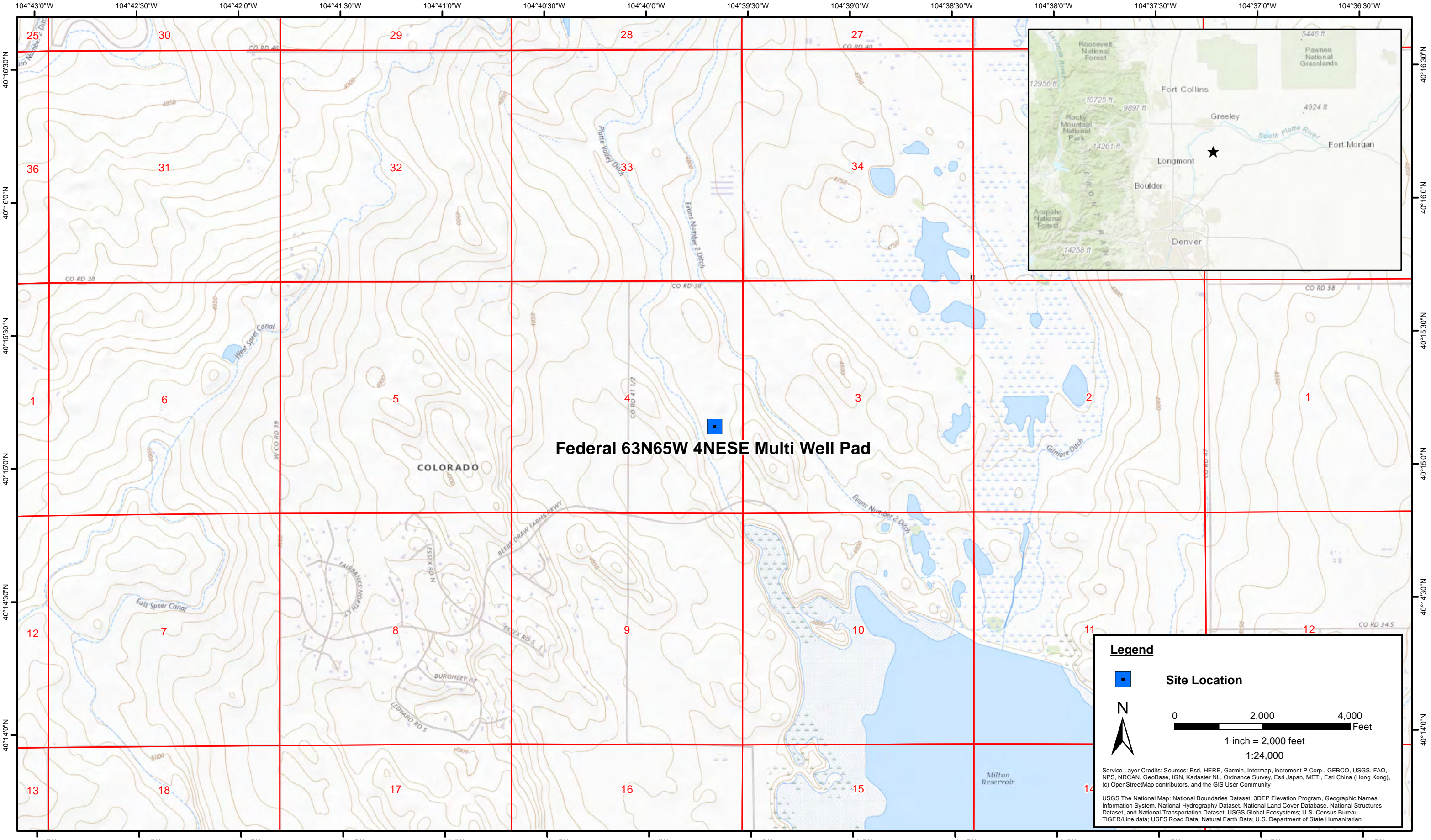
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:		Volume:		Material:		Volume:	
Contents:				Contents:			
Notes/Conditions: Soil sampling location.				Notes/Conditions: Soil sampling location.			



Photographic Log

Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:		
Material:		Volume:	Contents:		Material:		Volume:	Contents:
Notes/Conditions: Soil sampling location.				Notes/Conditions:				

FIGURES



DATE: April 2024

DESIGNED BY: S. Vogt

DRAWN BY: L. Reed



Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

Crestone Peak Resources Operating, LLC
Federal 63N65W 4NESE Multi Well Pad
NESE Sec. 4-T3N-R65W
Weld County, Colorado

Site Location Map

Figure
1



Legend

- Soil sample location – Low PID readings (Collected via Trimble GPS)
- Excavation extent (Collected via Trimble GPS)
- Stockpile location (Collected via Trimble GPS)
- Flowline Location

Notes

All locations are approximate unless otherwise noted.

Crestone Peak Resources Operating, LLC site infrastructure has been removed.

GPS = Global Positioning System

ECMC = Colorado Energy & Carbon Management Commission

0 ft. 10 ft. 20 ft.

Image Source: Google Earth

DATE:	April 23, 2024
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Molson



Tasman, Inc.
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2-4 Wellhead Soil Sample
 Location Map
 (04/22/2024)

Figure
 2A



Legend

- Soil sample location – Low PID readings (Collected via Trimble GPS)
- Excavation extent (Collected via Trimble GPS)
- Stockpile location (Collected via Trimble GPS)
- Flowline Location

Notes

All locations are approximate unless otherwise noted.

Crestone Peak Resources Operating, LLC site infrastructure has been removed.

GPS = Global Positioning System

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0 ft. 10 ft. 20 ft.

Image Source: Google Earth

DATE:	April 23, 2024
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Crestone Peak
Federal 63N65W 4NESE Multi Well Pad
NESE Sec. 4-T3N-R65W
Weld County, Colorado

43-4 Wellhead Soil Sample
Location Map
(04/22/2024)

Figure
2B



DATE:	April 23, 2024
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Molson



Tasman, Inc.
 6855 W119th Ave.
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Crestone Peak
Federal 63N65W 4NESE Multi Well Pad
 NESE Sec. 4-T3N-R65W
 Weld County, Colorado

Facility Soil Sample
 Location Map
 (04/22/2024)

Figure
 2C

TABLES

TABLE 1
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL SAMPLE LOCATIONS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
2-4-WH-B01@6'	6'	04/22/2024	6.6	40.252653	-104.661206	2.1	Y
2-4-WH-N01@5'	5'	04/22/2024	4.8	40.252665	-104.661205	1.6	N
2-4-WH-S01@5'	5'	04/22/2024	4.1	40.252647	-104.661203	2.2	N
2-4-WH-E01@5'	5'	04/22/2024	4.6	40.252659	-104.661189	2.2	N
2-4-WH-W01@5'	5'	04/22/2024	2.9	40.252655	-104.661217	2.4	N
2-4-FL-B01@4'	4'	04/22/2024	7.1	40.252657	-104.661219	2.4	Y
SP-CS01	-	04/22/2024	3.2	-	-	-	Y
43-4-WH-B01@6'	6'	04/22/2024	5.4	40.252619	-104.661689	1.2	Y
43-4-WH-N01@5'	5'	04/22/2024	4.9	40.252628	-104.661697	1.4	N
43-4-WH-S01@5'	5'	04/22/2024	5.7	40.252611	-104.661684	1.7	N
43-4-WH-E01@5'	5'	04/22/2024	6.8	40.252623	-104.661679	1.4	N
43-4-WH-W01@5'	5'	04/22/2024	6.4	40.252609	-104.661698	1.8	N
43-4-FL-B01@4'	4'	04/22/2024	7.8	40.252615	-104.661709	1.3	Y
SP-CS02	-	04/22/2024	7.3	-	-	-	Y
SEP-B01@3"	3"	04/22/2024	2.1	40.252567	-104.661819	0.9	Y
SEP-B02@3"	3"	04/22/2024	0.7	40.252541	-104.661813	0.9	Y
AST1-B01@3"	3"	04/22/2024	126.2	40.252501	-104.662093	0.9	Y
AST2-B01@3"	3"	04/22/2024	7.8	40.252483	-104.662078	1	Y
PW-B01@4'	4'	04/22/2024	2,253	40.252556	-104.662114	1.3	Y
PW-N01@3'	3'	04/22/2024	244.1	40.252565	-104.662122	1	Y
PW-S01@3'	3'	04/22/2024	33.8	40.252546	-104.662112	1.1	Y
PW-E01@3'	3'	04/22/2024	161.9	40.252559	-104.662103	1.2	Y
PW-W01@3'	3'	04/22/2024	20.5	40.252551	-104.662130	1	Y
ECD-B01@2'	2'	04/22/2024	3,459	40.252466	-104.662045	1	Y
DL-B01@2'	2'	04/22/2024	11.6	40.252546	-104.662099	-	Y
DL-B02@3'	3'	04/22/2024	10.8	40.252575	-104.661903	-	Y
DL-B03@3'	3'	04/22/2024	3.6	40.252586	-104.661826	0.8	Y
ECD-FL-B01@3'	3'	04/22/2024	153.7	40.252443	-104.662014	0.9	Y
SP-CS03	-	04/22/2024	1.7	-	-	-	Y
SP-CS04	-	04/22/2024	39.0	-	-	-	Y
ECD-FL-B02@3'	3'	04/22/2024	2.7	40.252520	-104.661825	0.8	Y
FL-B02@3'	3'	04/22/2024	10.5	40.252561	-104.661800	-	Y

Notes:

PID = Photoionization Detector
 ppm = parts per million

TABLE 1
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL SAMPLE LOCATIONS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
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GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

TABLE 2
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

**TABLE 3
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC**

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
2-4-WH-B01@6'	6'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
2-4-FL-B01@4'	4'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SP-CS01	-	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
43-4-WH-B01@6'	6'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
43-4-FL-B01@4'	4'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SP-CS02	-	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SEP-B01@3"	3"	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SEP-B02@3"	3"	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
AST1-B01@3"	3"	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
AST2-B01@3"	3"	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
PW-B01@4'	4'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
PW-N01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
PW-S01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
PW-E01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
PW-W01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
ECD-B01@2'	2'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
DL-B01@2'	2'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
DL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
DL-B03@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
ECD-FL-B01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SP-CS03	-	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SP-CS04	-	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
ECD-FL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
FL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending

Notes:

TABLE 3
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 4
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL ANALYTICAL DATA - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	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)
ECMC Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
FL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

TABLE 5
FEDERAL 63N65W 4NESE MULTI WELL PAD
SOIL ANALYTICAL DATA - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
2-4-WH-B01@6'	6'	04/22/2024	Pending	Pending	Pending	Pending
2-4-FL-B01@4'	4'	04/22/2024	Pending	Pending	Pending	Pending
SP-CS01	-	04/22/2024	Pending	Pending	Pending	Pending
43-4-WH-B01@6'	6'	04/22/2024	Pending	Pending	Pending	Pending
43-4-FL-B01@4'	4'	04/22/2024	Pending	Pending	Pending	Pending
SP-CS02	-	04/22/2024	Pending	Pending	Pending	Pending
SEP-B01@3"	3"	04/22/2024	Pending	Pending	Pending	Pending
SEP-B02@3"	3"	04/22/2024	Pending	Pending	Pending	Pending
AST1-B01@3"	3"	04/22/2024	Pending	Pending	Pending	Pending
AST2-B01@3"	3"	04/22/2024	Pending	Pending	Pending	Pending
PW-B01@4'	4'	04/22/2024	Pending	Pending	Pending	Pending
PW-N01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
PW-S01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
PW-E01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
PW-W01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
ECD-B01@2'	2'	04/22/2024	Pending	Pending	Pending	Pending
DL-B01@2'	2'	04/22/2024	Pending	Pending	Pending	Pending
DL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
DL-B03@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
ECD-FL-B01@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
SP-CS03	-	04/22/2024	Pending	Pending	Pending	Pending
SP-CS04	-	04/22/2024	Pending	Pending	Pending	Pending
ECD-FL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending
FL-B02@3'	3'	04/22/2024	Pending	Pending	Pending	Pending

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Soil Suitability for Reclamation Concentrations