

**CONFIRMATION SOIL SAMPLING REPORT**

**Facility Name: Fort Lupton Compressor Station**  
**Facility Number: 466243**  
**Initial Form 27 Number: 403954600**  
**NW 1/4, SW 1/4, Section 21, Township 1N, Range 66W**  
**40.033382, -104.790116**  
**Weld County, Colorado**

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## 1.0 INTRODUCTION

On behalf of Rocky Mountain Midstream, LLC (RMM), Apex Companies, LLC (Apex) has prepared this Confirmation Soil Sampling Report for the Fort Lupton Compressor Station (Site), located in the northwest quarter of the southwest quarter of Section 21, Township 1N, Range 66W in Weld County, Colorado (**Figure 1**).

## 2.0 GENERAL SITE INFORMATION

The Site is in an agricultural area, northeast of the intersection of Weld County Road (WCR) 6 and WCR 29 in Wattenberg, Colorado. It is currently operating as the Fort Lupton Compressor Station.

### 2.1 Initial Release and Spill Response

Based on the initial Form 27 report submitted to the Colorado Energy and Carbon Management Commission (ECMC, form number 403954600), condensate was released to the ground on July 22, 2019, after a threaded connection failed due to a sudden change in pressure in the pipeline. Approximately six barrels (BBLs) of condensate material was released. The release was contained on site and the pipeline repair and subsequent cleanup were initiated. Impacted soils were excavated by RMM from an area approximately 25 feet by 11 feet, and to a depth of three feet deep. All impacted soils were disposed of offsite. The excavation was then backfilled with clean fill dirt. No records of disposal or laboratory analytical reports have been identified from that timeframe. RMM estimates that 30 cubic yards were removed from the Site, based on the limited information available and statements from employees onsite during the spill response and remediation activities.

### 2.2 Soil Sampling

On November 12, 2024, Apex collected six soil samples via hand auger within the former excavation footprint, located at and around the release point (**Figure 2**). The sampling occurred to confirm impacted soil was fully excavated, and to determine if additional remediation is required. All samples were taken between 3.5 and 4.0 feet below ground surface (bgs), below the fill material of the excavation. Prior to sample collection, soils were field screened for volatile organic compounds (VOCs) using a handheld photo-ionization detector (PID). No elevated PID readings were observed during soil sample collection (**Table 1**).

During soil sample collection, a portion of the sample was placed in a baggie or soil jar for head-space analysis and the other portion was placed within a soil jar for laboratory submittal. A laboratory sample was not collected from soil used for head-space analysis. Each soil sample was placed into a laboratory-supplied Terra Core Sampling Kit, labeled, and immediately placed in a chilled cooler. The samples were shipped to ALS Environmental in Holland, Michigan, for laboratory analysis of Total Petroleum Hydrocarbons (TPH) (C6-C36) and Table 915-1 Organic Compounds in Soil. Lab-analyzed potential hydrogen (pH) results were above the Residential Soil Screening Level (RSL) acceptable highest value of 8.3. All other soil sample results were reported below the RSLs and the Protection of Groundwater Soil Screening levels (PGWS, **Table 2**).

## 3.0 INVESTIGATION CONCLUSIONS


Laboratory results from the confirmation soil samples collected on November 12, 2024, indicate past remediation efforts to remove impacted soils at the Fort Lupton Compression Station were successful. It does not appear additional remediation is necessary for this release at this time.

## **ATTACHMENTS**



**Figure 1 - Site Location**  
**Fort Lupton Compressor Station**  
**Facility Number: 466243**  
**40.033261, -104.790022,**  
**Weld County, Colorado**

Legend

 Site Boundary





**Figure 2 - Sample Locations**  
**Fort Lupton Compressor Station**  
**Facility Number: 466243**  
**Soil Samples Collected on**  
**November 12, 2024**



**Ft01**  
3.5'-4.0'  
0.0 ppm

**Ft02**  
3.5'-4.0'  
0.0 ppm

**Ft06**  
3.5'-4.0'  
0.0 ppm

**Ft03**  
3.5'-4.0'  
0.0 ppm

**Ft05**  
3.5'-4.0'  
0.0 ppm

**Ft04**  
3.5'-4.0'  
0.0 ppm

**Legend**  
● Soil Sample Locations

FtL01 - Soil sample location name  
3.5'-4.0' - Soil sample depth, in feet  
0.0 ppm - Volatile organic compounds (VOC), in parts per million (ppm)



**Table 1 - PID Field Measurements, November 12, 2024**

Sample Date	Soil Sample Location	Sample Depth PID Results (ppm)			
		1.0'-1.5' bgs	2.0'-2.5' bgs	3.0'-3.5' bgs	3.5'-4.0' bgs
11/12/2024	FtL01	0.0	0.0	0.0	0.0
11/12/2024	FtL02	0.0	0.1	0.0	0.0
11/12/2024	FtL03	0.0	0.0	0.0	0.0
11/12/2024	FtL04	0.0	0.0	0.0	0.0
11/12/2024	FtL05	0.0	0.0	0.0	0.0
11/12/2024	FtL06	0.0	0.0	0.0	0.0

**Legend:**

Samples submitted to ALS for analysis

PID - Photoionization Detector

ppm - parts per million

bgs - below ground surface



Table 1 - Soil Analytical Results

				Organic Compounds in Soils (mg/kg)												
ECMC Residential Soil Screening Levels -->				500	1.2	490	5.8	58	30	27	360	1800	1.1	1.1	11	
Protection of Groundwater Levels (Soil) -->					0.0026(M)	0.69(M)	0.78(M)	9.9(M)	0.0081(R)	0.0087(R)	0.55(R)	5.8(R)	0.011(R)	0.3(R)	2.9(R)	
Sample Date	Solid/Soil Source [Vault/Supp, Spill, Pit, Cuttings, Background, Tank Battery, Wellhead, Flowline, etc.]	Sample ID	PID (ppm)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene
11/12/2024	Excavation	FtL01@3.5'-4.0'	0.0	<5.7	29	<0.00060	<0.0020	<0.0010	<0.0039	<0.0021	<0.0018	<0.0043	<0.0020	<0.0081	<0.0067	<0.0017
11/12/2024	Excavation	FtL02@3.5'-4.0'	0.0	<5.9	19	<0.00051	<0.0017	<0.00085	<0.0033	<0.0018	<0.0016	<0.0044	<0.0021	<0.0082	<0.0068	<0.0017
11/12/2024	Excavation	FtL03@3.5'-4.0'	0.0	<4.1	28	<0.00048	<0.0016	<0.00080	<0.0031	<0.0017	<0.0015	<0.0047	<0.0022	<0.0088	<0.0074	<0.0018
11/12/2024	Excavation	FtL04@3.5'-4.0'	0.0	<5.4	25	<0.00048	<0.0016	<0.00080	<0.0031	<0.0017	<0.0015	<0.0044	<0.0021	<0.0083	<0.0069	<0.0017
11/12/2024	Excavation	FtL05@3.5'-4.0'	0.0	<5.5	20	<0.00044	<0.0015	<0.00074	<0.0029	<0.0015	<0.0014	<0.0046	<0.0022	<0.0087	<0.0073	<0.0018
11/12/2024	Excavation	FtL06@3.5'-4.0'	0.0	<5.2	26	<0.00046	<0.0016	<0.00078	<0.0031	<0.0016	<0.0014	<0.0046	<0.0022	<0.0087	<0.0072	<0.0018

Legend:

ECMC - Colorado Energy and Carbon Management Commission

Orange Highlight - ECMC Table 915-1 TPH, BTEX, organic, metal exceedance

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

Yellow Highlight - ECMC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics

TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics

MCL - maximum contaminant level

PID - Photoionization Detector

ppm - parts per million

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

mmhos/cm - millimhos per centimeter

' - feet



Table 1 - Soil Analytical Results

				Organic Compounds in Soils (mg/kg)										Soil Suitability for Reclamation				Metals by Saturated Paste (mg/L)		
ECMC Residential Soil Screening Levels -->				0.11	110	0.11	240	240	1.1	18	24	2	180	4	6	(6-8.3)	2			
Protection of Groundwater Levels (Soil) -->				0.24(M)	9(R)	0.096(R)	8.9(R)	0.54(R)	0.98(R)	0.006(R)	0.019(R)	0.0038(R)	1.3(R)							
Sample Date	Solid/Soil Source [Vault/Sump, Spill, Pit, Cuttings, Background, Tank Battery, Wellhead, Flowline, etc.]	Sample ID	PID (ppm)	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Pyrene	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)	Calcium	Magnesium	Sodium
11/12/2024	Excavation	FtL01@3.5'-4.0'	0.0	<0.0076	<0.0074	<0.0065	<0.0056	<0.0028	<0.0078	<0.0023	<0.0026	<0.0021	<0.0071	1.6	1.7	9.46	0.86	150	30	90
11/12/2024	Excavation	FtL02@3.5'-4.0'	0.0	<0.0077	<0.0075	<0.0066	<0.0057	<0.0028	<0.0078	<0.0023	<0.0027	<0.0021	<0.0072	0.98	0.66	8.73	0.56	110	24	29
11/12/2024	Excavation	FtL03@3.5'-4.0'	0.0	<0.0083	<0.0081	<0.0071	<0.0061	<0.0030	<0.0085	<0.0025	<0.0029	<0.0023	<0.0078	1.0	0.56	9.25	0.62	110	23	25
11/12/2024	Excavation	FtL04@3.5'-4.0'	0.0	<0.0077	<0.0076	<0.0067	<0.0057	<0.0028	<0.0079	<0.0023	<0.0027	<0.0022	<0.0073	0.94	0.56	8.81	0.49	100	23	24
11/12/2024	Excavation	FtL05@3.5'-4.0'	0.0	<0.0082	<0.0080	<0.0070	<0.0061	<0.0030	<0.0084	<0.0025	<0.0028	<0.0023	<0.0077	0.90	0.45	9.06	0.59	100	22	19
11/12/2024	Excavation	FtL06@3.5'-4.0'	0.0	<0.0081	<0.0079	<0.0070	<0.0060	<0.0030	<0.0083	<0.0025	<0.0028	<0.0023	<0.0077	0.79	0.88	8.84	0.71	88	16	34

- Legend:
- ECMC - Colorado Energy and Carbon Management Commission
  - Orange Highlight - ECMC Table 915-1 TPH, BTEX, organic, metal exceedance
  - Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)
  - Yellow Highlight - ECMC Table 915-1 inorganic exceedance
  - Grey Highlight - below laboratory detection limit

- TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics
- TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics
- MCL - maximum contaminant level
- PID - Photoionization Detector
- ppm - parts per million
- mg/kg - milligrams per kilogram
- mg/L - milligrams per liter
- mmhos/cm - millimhos per centimeter
- ' - feet