

State of Colorado  
Energy & Carbon Management Commission

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Document Number:  
404634363  
Receive Date:  
04/27/2026

Report taken by:  
Kari Brown

Site Investigation and Remediation Workplan (Supplemental Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock.

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by ECMC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27.

This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

OPERATOR INFORMATION

|  |  |  |
|--|--|--|
| Name of Operator: <u>CRESTONE PEAK RESOURCES OPERATING LLC</u> | Operator No: <u>10633</u>              | Phone Numbers<br>Phone: <u>(303) 8293811</u><br>Mobile: <u>(303) 8293811</u> |
| Address: <u>555 17TH STREET SUITE 3700</u>                     |  |  |
| City: <u>DENVER</u>  | State: <u>CO</u>                       | Zip: <u>80202</u>  |
| Contact Person: <u>Jacob Evans</u>                             | Email: <u>jevans@civiresources.com</u> |  |

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 25332 Initial Form 27 Document #: 403088945

PURPOSE INFORMATION

- Rule 913.c.(1): Pit or Cuttings Trench closure.
- Rule 913.c.(2): Buried or partially buried vessel closure, which will be by removal.
- Rule 913.c.(3): Remediation of Spill and Releases pursuant to Rule 912.
- Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 905.e.
- Rule 913.c.(5): Closure of Centralized E&P Waste Management Facilities pursuant to Rule 907.h.
- Rule 913.c.(6): Remediation of impacted Groundwater pursuant to Rule 915.e.(3).D, and the contaminant concentrations in Table 915-1.
- Rule 913.c.(7): Investigation and remediation of natural gas in soil or Groundwater.
- Rule 913.c.(8): When requested by the Director due to any potential risk to soil, Groundwater, or surface water.
- Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.
- Rule 913.g: Changes of Operator.
- Rule 915.b: Request to leave elevated inorganics in situ.
- Other: \_\_\_\_\_

SITE INFORMATION

Yes  Multiple Facilities

|   |                            |                               |   |
|---|----------------------------|-------------------------------|---|
| Facility Type: <u>PIT</u>                                       | Facility ID: <u>103309</u> | API #: _____                  | County Name: <u>WELD</u>  |
| Facility Name: <u>MILLER 14-17</u>                              | Latitude: <u>40.133080</u> | Longitude: <u>-104.921035</u> |   |
| ** correct Lat/Long if needed: Latitude: _____ Longitude: _____ |                            |                               |   |
| QtrQtr: <u>SWSW</u>   | Sec: <u>17</u>             | Twp: <u>2N</u>                | Range: <u>67W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u> |

|   |                            |                               |  |
|---|----------------------------|-------------------------------|--|
| Facility Type: <u>PIT</u>                                       | Facility ID: <u>103315</u> | API #: _____                  | County Name: <u>WELD</u>                                       |
| Facility Name: <u>MILLER 4-17J</u>                              | Latitude: <u>40.133170</u> | Longitude: <u>-104.921157</u> |  |
| ** correct Lat/Long if needed: Latitude: _____ Longitude: _____ |                            |                               |  |
| QtrQtr: <u>SWSW</u>   | Sec: <u>17</u>             | Twp: <u>2N</u>                | Range: <u>67W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u> |

Facility Type: OFF-LOCATION FLOWLINE Facility ID: 469104 API #: \_\_\_\_\_ County Name: WELD  
Facility Name: MILLER-62N67W 17SWSW Latitude: 40.133020 Longitude: -104.921167  
\*\* correct Lat/Long if needed: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
QtrQtr: SWSW Sec: 17 Twp: 2N Range: 67W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE Facility ID: 483523 API #: \_\_\_\_\_ County Name: WELD  
Facility Name: Historic Miller 4-17J Latitude: 40.133170 Longitude: -104.921157  
\*\* correct Lat/Long if needed: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
QtrQtr: SWSW Sec: 17 Twp: 2N Range: 67W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE Facility ID: 484023 API #: \_\_\_\_\_ County Name: WELD  
Facility Name: Miller 14-17 Pit Latitude: 40.133080 Longitude: -104.921035  
\*\* correct Lat/Long if needed: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
QtrQtr: SWSW Sec: 17 Twp: 2N Range: 67W Meridian: 6 Sensitive Area? Yes

### SITE CONDITIONS

General soil type - USCS Classifications SP Most Sensitive Adjacent Land Use Residential

Is domestic water well within 1/4 mile? Yes Is surface water within 1/4 mile? No

Is groundwater less than 20 feet below ground surface? No

#### **Other Potential Receptors within 1/4 mile**

None

# SITE INVESTIGATION PLAN

## TYPE OF WASTE:

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> E&P Waste      | <input type="checkbox"/> Other E&P Waste             | <input type="checkbox"/> Non-E&P Waste |
| <input checked="" type="checkbox"/> Produced Water | <input type="checkbox"/> Workover Fluids             | _____                                  |
| <input checked="" type="checkbox"/> Oil            | <input type="checkbox"/> Tank Bottoms                |  |
| <input checked="" type="checkbox"/> Condensate     | <input type="checkbox"/> Pigging Waste               |  |
| <input type="checkbox"/> Drilling Fluids           | <input type="checkbox"/> Rig Wash                    |  |
| <input type="checkbox"/> Drill Cuttings            | <input type="checkbox"/> Spent Filters               |  |
|  | <input type="checkbox"/> Pit Bottoms                 |  |
|  | <input type="checkbox"/> Other (as described by EPA) | _____                                  |

## DESCRIPTION OF IMPACT

| Impacted? | Impacted Media | Extent of Impact    | How Determined        |
|-----------|----------------|---------------------|-----------------------|
| Yes       | SOILS          | 60' X 60' X 24' bgs | Laboratory Analytical |

## INITIAL ACTION SUMMARY

Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste.

A site investigation will be conducted pursuant to COGCC rule 911 at the MILLER 4-17 J pit. The pit was historically back-filled. Soil samples will be taken and analyzed per Table 915-1. The pit will require additional excavation when tank battery equipment is removed. The Miller 24-17 (12320725\_FL) wellhead line will be decommissioned. See site map exhibit for details.

## PROPOSED SAMPLING PLAN

### Proposed Soil Sampling

Will soil samples be collected as part of this investigation? ( Number, type (grab/composite), analyses, and locations of samples ):

During assessment of the Miller 14-17J pit, one grab soil sample was collected at the highest PID field screening location in the soil bore and analyzed by a certified laboratory for TPH C6-36, organics, pH, EC, and SAR. Additionally during site assessment activities twenty (20) grab soil samples were collected for analysis of Table 915-1 metals, organics, TPH C6-36, pH, EC, SAR, and boron. During assessment of the Miller 14-17 pit one grab soil sample was collected for laboratory analysis of Table 915-1 organics, TPH C6-36, SAR, EC, and pH. These two pit locations will be combined into one remediation due to close proximity.

### Proposed Groundwater Sampling

Will groundwater samples be collected as part of this investigation? ( Number, analyses, and locations of samples ):

If groundwater is encountered the soil borings will be converted to a monitoring well. A groundwater sample will be collected for analysis by a certified laboratory for BTEX, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and TDS, sulfates, and chlorides.

### Proposed Surface Water Sampling

Will surface water samples be collected as part of this investigation? ( Number, analyses, and locations of samples ):

## Additional Investigative Actions

Additional alternative investigative actions described in attached Site Investigation Plan ( summary ):

# SITE INVESTIGATION REPORT

## SAMPLE SUMMARY

| Soil   | NA / ND   |
|--|---|
| Number of soil samples collected <u>41</u>       | -- Highest concentration of TPH (mg/kg) <u>3630</u> |
| Number of soil samples exceeding 915-1 <u>21</u> | -- Highest concentration of SAR <u>28.6</u>         |

Was the areal and vertical extent of soil contamination delineated? Yes

BTEX > 915-1 Yes

Approximate areal extent (square feet) 225

Vertical Extent > 915-1 (in feet) 24

**Groundwater**

Number of groundwater samples collected 0

Highest concentration of Benzene (µg/l)

Was extent of groundwater contaminated delineated? No

Highest concentration of Toluene (µg/l)

Depth to groundwater (below ground surface, in feet)

Highest concentration of Ethylbenzene (µg/l)

Number of groundwater monitoring wells installed

Highest concentration of Xylene (µg/l)

Number of groundwater samples exceeding 915-1

Highest concentration of Methane (mg/l)

**Surface Water**

0 Number of surface water samples collected

Number of surface water samples exceeding 915-1

If surface water is impacted, other agency notification may be required.

**OTHER INVESTIGATION INFORMATION**

Were impacts to adjacent property or offsite impacts identified?

Were background samples collected as part of this site investigation?

Twenty background samples were collected for analysis of Table 915-1 metals, SAR, EC, pH, and boron.

Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards)

Volume of liquid waste (barrels)

Is further site investigation required?

**REMEDIAL ACTION PLAN**

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? No

**SOURCE REMOVAL SUMMARY**

Describe how source is to be removed.

Source removal was paused to evaluate existing data and resample locations with arsenic exceedances. Additional source removal will be scheduled due to arsenic exceedances. Soil confirmation samples were collected for analysis of Table 915-1 metals, TPH C6-36, organics, EC, SAR, pH, and boron.

**REMEDIATION SUMMARY**

Describe how remediation of existing impacts to soil and groundwater is to be accomplished (i.e. summarize remedial action plan). Provide a brief narrative description including: technical justification, schedule for implementation, estimated time to attain NFA status, plus plans and specifications for the selected remedial action technology.

Additional source removal will be scheduled. Background samples were collected off the excavation in native soils. Background samples below 20' were collected. A statistical analysis was performed by Quandary Consultants to determine the statistical variability of SAR, Arsenic, and pH. The statistical analysis confirmed that confirmation soil samples within the excavation to a total depth of 20' below ground surface (bgs), had concentrations of SAR, Arsenic, and pH that are not statistically similar to background concentrations. The sidewalls and floor of the excavation were resampled for arsenic only to determine laboratory variability. Arsenic remains above background levels at the site.

Potential groundwater was observed at the base of the excavation, due to health and safety concerns a sample was not collected. Contingent on impacts left in situ post excavation, a groundwater site assessment will be scheduled. Table 915-1 protection of groundwater soil screening levels will be utilized for this project. A site assessment was conducted to determine the extent of impacted soil and groundwater. TPH remains in situ above ECMC standards. A remediation plan to address TPH exceedances will be presented on a supplemental form 27. The estimated timeframe to achieve a no further action is December 31, 2027, which is based on soil remediation and groundwater monitoring. Past Summit Scientific site investigation data is currently being reviewed, and any findings will be submitted on a supplemental form 27.

**Soil Remediation Summary**

In Situ

Ex Situ

Bioremediation ( or enhanced bioremediation )

Yes Excavate and offsite disposal

\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Air sparge / Soil vapor extraction  
\_\_\_\_\_ Natural Attenuation  
\_\_\_\_\_ Other \_\_\_\_\_

If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_ 4000  
Name of Licensed Disposal Facility or ECMC Facility ID # \_\_\_\_\_  
\_\_\_\_\_ Excavate and onsite remediation  
\_\_\_\_\_ Land Treatment  
\_\_\_\_\_ Bioremediation (or enhanced bioremediation)  
\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Other \_\_\_\_\_

**Groundwater Remediation Summary**

\_\_\_\_\_ Bioremediation ( or enhanced bioremediation )  
\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Air sparge / Soil vapor extraction  
\_\_\_\_\_ Natural Attenuation  
\_\_\_\_\_ Other \_\_\_\_\_

**GROUNDWATER MONITORING**

If groundwater has been impacted, describe proposed monitoring plan, including # of wells or sample points, monitoring schedule, analytical methods, points of compliance. Attach a groundwater monitoring location diagram.

Monitoring wells MW-01 through MW-05, MW-07, MW-11, MW-13, MW-14, MW-15 through MW-18 will be sampled on a quarterly basis. Groundwater samples will be submitted to a certified laboratory for analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, chlorides, sulfates, and TDS.  
MW-06 will be replaced and dedicated background monitoring wells will be installed

# REMEDIATION PROGRESS UPDATE

## PERIODIC REPORTING

### Approved Reporting Schedule:

Quarterly    Semi-Annually    Annually    Other \_\_\_\_\_

### Request Alternative Reporting Schedule:

Semi-Annually    Annually    Other \_\_\_\_\_

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

**Report Type:**    Groundwater Monitoring    Land Treatment Progress Report    O&M Report  
 Other \_\_\_\_\_

## Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).

If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

The General Liability coverage within the Civitas Resources insurance program includes coverage for bodily injury, property damage, and pollution clean-up costs arising from qualifying pollution events of a sudden and accidental nature subject to a \$1,000,000 per occurrence limit and \$2,000,000 aggregate limit. The Civitas Resources insurance program includes Excess Liability coverage of \$110,000,000 per occurrence and in the aggregate which sits over the sudden and accidental pollution within the General Liability coverage. It is the opinion of Civitas Resources that this total tower of limit is adequate to address the costs of remediation associated with any qualifying pollution event.

Operator anticipates the remaining cost for this project to be: \$ 250000

## WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? Yes \_\_\_\_\_

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

No beneficial use

Volume of E&P Waste (solid) in cubic yards \_\_\_\_\_ 4000

E&P waste (solid) description   E&P solid waste derived from  
excavation activities

ECMC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-ECMC Disposal Facility: Front Range Landfill

Volume of E&P Waste (liquid) in barrels \_\_\_\_\_ 0

E&P waste (liquid) description \_\_\_\_\_

ECMC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-ECMC Disposal Facility: \_\_\_\_\_

## REMEDIATION COMPLETION REPORT

### REMEDIATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? No \_\_\_\_\_

If YES:

Compliant with Rule 913.h.(1).

Compliant with Rule 913.h.(2).

Compliant with Rule 913.h.(3).

Do all soils meet Table 915-1 standards? No \_\_\_\_\_

Does the previous reply indicate consideration of background concentrations? \_\_\_\_\_

Does Groundwater meet Table 915-1 standards? Yes

Is additional groundwater monitoring to be conducted? \_\_\_\_\_

Operator shall comply with the ECMC 1000-Series Reclamation Requirements for all impacted and disturbed areas.

## RECLAMATION PLAN

### RECLAMATION PLANNING

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing.

If disturbance occurs reclamation will be in accordance with ECMC 1000 series rules.

Is the described reclamation complete? No

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

Interim

Final

Did the Surface Owner provide the seed mix? \_\_\_\_\_

If YES, does the seed mix comply with local soil conservation district recommendations? \_\_\_\_\_

Did the local soil conservation district provide the seed mix? \_\_\_\_\_

### SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. \_\_\_\_\_

Proposed date of completion of Reclamation. \_\_\_\_\_

## IMPLEMENTATION SCHEDULE

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

### PRIOR DATES

Date of Surface Owner notification/consultation, if required. 10/27/2022

Actual Spill or Release date, or date of discovery. 03/14/2023

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 10/05/2022

Proposed site investigation commencement. 03/14/2023

Proposed completion of site investigation. 04/30/2023

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 07/10/2023

Proposed date of completion of Remediation. 12/31/2027

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

Groundwater monitoring and soil remediation is required.

**OPERATOR COMMENT**

|  |
|--|
|  |
|--|

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: Jacob Evans

Title: Environmental Specialist

Submit Date: 04/27/2026

Email: jevans@civiresources.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with ECMC Rules and applicable orders and is hereby approved.

ECMC Approved: \_\_\_\_\_

Date: \_\_\_\_\_

Remediation Project Number: 25332

**COA Type****Description**

|       |  |
|-------|--|
|       |  |
| 0 COA |  |

**ATTACHMENT LIST**

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

**Att Doc Num****Name**

|           |                                |
|-----------|--------------------------------|
| 404634363 | FORM 27 DENIED                 |
| 404634382 | LABORATORY ANALYTICAL REPORT   |
| 404634383 | MONITORING REPORT              |
| 404650638 | FORM 27-SUPPLEMENTAL-SUBMITTED |

Total Attach: 4 Files

**General Comments****User Group****Comment****Comment Date**

|               |  |            |
|---------------|--|------------|
| Environmental | ECMC has denied this form as Operator voluntary disclosure indicates this project was affected by out of hold analysis.<br>A project specific review of information remains outstanding. | 05/07/2026 |
|---------------|--|------------|

Total: 1 comment(s)