

State of Colorado
Energy & Carbon Management Commission

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Document Number:
403989366

Receive Date:

Report taken by:

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

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 30964 Initial Form 27 Document #: 403495336

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: LOCATION	Facility ID: 332743	API #: _____	County Name: WELD
Facility Name: ARISTOCRAT ANGUS-63N65W 10SENE	Latitude: 40.241897	Longitude: -104.640806	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SENE	Sec: 10	Twp: 3N	Range: 65W Meridian: 6 Sensitive Area? No

Facility Type: SPILL OR RELEASE Facility ID: 489407 API #: County Name: WELD
Facility Name: AA 42-10 7-2-10 common line Latitude: 40.244268 Longitude: -104.640949
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: SENE Sec: 10 Twp: 3N Range: 65W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use Rangeland

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

Is groundwater less than 20 feet below ground surface? No

Other Potential Receptors within 1/4 mile

The Un-Named Lake is 0-ft to the W. The Un-Named Lake is 175-ft to the E. The Evans #2 Ditch is 360-ft to the W. The Un-Named Lake is 780-ft to the NW. The Milton Reservoir is 870-ft to the S. The Gilmore Ditch is 1050-ft to the SE.
No water wells within 1/4 of a mile.
Groundwater less than 20 ft is not expected at the disturbance location.
This location is within HPH Bald Eagle Roost Site. Please see the attached correspondence for the HPH CPW consultation.
This location is within 2023 Proposed HPH Mule Deer Severe Winter Range. CPW consultation not required.

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	GROUNDWATER	Bell Hole Locations	Laboratory Analytical
Yes	SOILS	200' X 30' X 5' 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 ARISTOCRAT ANGUS-63N65W 10SENE (332743) oil and gas location pertaining to the abandonment of the ARISTOCRAT ANGUS 42-10 & 7-2-10 COMMON LINE (12316673_FL). All other wells and equipment will remain active. 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):

Eleven grab soil samples were collected from the decommissioned flowline corridor. All soil samples were submitted to a certified laboratory for analysis of Table 915-1 metals and organic compounds, TPH C6-36, EC, SAR, pH, and boron.

Proposed Groundwater Sampling

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

Seven grab groundwater samples were collected from the flowline bell holes and submitted to a certified laboratory for analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.

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 11

-- Highest concentration of TPH (mg/kg) 100

Number of soil samples exceeding 915-1 7 -- Highest concentration of SAR 9.02
 Was the areal and vertical extent of soil contamination delineated? No BTEX > 915-1 Yes
 Approximate areal extent (square feet) 6000 Vertical Extent > 915-1 (in feet) 5

Groundwater

Number of groundwater samples collected 7 -- Highest concentration of Benzene (µg/l) 2400
 Was extent of groundwater contaminated delineated? No -- Highest concentration of Toluene (µg/l) 6700
 Depth to groundwater (below ground surface, in feet) 4 -- Highest concentration of Ethylbenzene (µg/l) 160
 Number of groundwater monitoring wells installed 0 -- Highest concentration of Xylene (µg/l) 3500
 Number of groundwater samples exceeding 915-1 5 NA 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?

Fifteen background samples were collected from homogenous soil horizons and/or corresponding excavation confirmation soil sample depths.
- 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.

The source will be removed through mechanical excavation. Grab confirmation soil samples will be collected and submitted to a certified laboratory for analysis of Table 915-1 metals and organic compounds, TPH C6-36, EC, SAR, pH, and boron to determine the lateral and vertical extent of impacts. Additional background samples will be collected from homogenous soil horizons and/or corresponding excavation sample depths.

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.

Once the source is removed, monitoring well installation will be required to delineate impacted groundwater. The estimated timeframe to achieve a no further action is based on source removal, monitoring well installation, and achieving four consecutive quarters of ECMC compliant groundwater, and will be December 31, 2026.

Soil Remediation Summary

- | | |
|---|---|
| <input type="checkbox"/> In Situ
<u></u> Bioremediation (or enhanced bioremediation)
<u></u> Chemical oxidation
<u></u> Air sparge / Soil vapor extraction
<u></u> Natural Attenuation | <input type="checkbox"/> Ex Situ
<u></u> Excavate and offsite disposal
If Yes: Estimated Volume (Cubic Yards) <u></u>
Name of Licensed Disposal Facility or ECMC Facility ID # <u></u>
<u></u> Excavate and onsite remediation |
|---|---|

Other _____

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.

A groundwater site assessment will be conducted. Groundwater samples will be collected on a quarterly basis and submitted to a certified laboratory for analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, chlorides, sulfates, TDS. A groundwater elevation figure and bore logs will be submitted on a supplemental form 27. Monitoring well installation will be scheduled prior to March 31, 2025, pending landowner access approval.

Does Groundwater meet Table 915-1 standards? No

Is additional groundwater monitoring to be conducted? Yes

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.

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. 10/25/2023

Actual Spill or Release date, or date of discovery. 10/25/2023

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 09/13/2023

Proposed site investigation commencement. 09/15/2023

Proposed completion of site investigation. 11/28/2023

REMEDIAL ACTION DATES

Proposed start date of Remediation. 12/01/2023

Proposed date of completion of Remediation. 12/31/2026

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:

OPERATOR COMMENT

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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 Advisor

Submit Date: _____

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: 30964

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**

404086046	ANALYTICAL RESULTS
404086047	ANALYTICAL RESULTS
404086048	SITE INVESTIGATION REPORT
404086049	ANALYTICAL RESULTS

Total Attach: 4 Files

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

Environmental	<p>Form Received: 11/11/2024 10:33:40 AM ECMC returned the Form to Draft on 2/3/2025 with the following comment: Operator will provide laboratory analytical report(s) as a stand-alone attachment(s) on the replacement Supplemental Form 27. The Laboratory Report PDF(s) must be secured by the issuing laboratory; If there is a difference between the creation date and secured date of the PDF, Operator shall provide an explanation in the case narrative of the associated report. ECMC will not review combined PDFs with lab reports.</p> <p>Form Received: 2/7/2025 10:28:47 AM ECMC returned the Form to draft on 3/12/2025 Spill IDs 485358 & 485428 are incorrectly associated with this Remediation Project (30964). Per correspondence with the Operator these Spill IDs should be associated with REM #30658</p> <p>Attached Site Investigation Report is associated with REM 30962.</p> <p>Attached lab reports have not been secured by the issuing lab.</p> <p>Please review all the attachments and narrative to clarify any discrepancies and attach the map provided to ECMC via email outlining each remediation project and the associated Spill IDs.</p>	02/03/2025
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Total: 1 comment(s)