

State of Colorado
Energy & Carbon Management Commission

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Document Number:
403729664
Receive Date:
03/25/2024
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: CRESTONE PEAK RESOURCES OPERATING LLC	Operator No: 10633	Phone Numbers Phone: (303) 8293811 Mobile: (303) 8293811
Address: 555 17TH STREET SUITE 3700		
City: DENVER	State: CO	Zip: 80202
Contact Person: Jacob Evans	Email: jevans@civiresources.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 31104 Initial Form 27 Document #: 403486038

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: WELL	Facility ID: _____	API #: 123-20948	County Name: WELD
Facility Name: WANDELL 12-7	Latitude: 40.155436	Longitude: -104.939203	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No

Facility Type: WELL	Facility ID: _____	API #: 123-21258	County Name: WELD
Facility Name: WANDELL 13-7	Latitude: 40.155271	Longitude: -104.939177	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No

Facility Type: WELL	Facility ID: _____	API #: 123-21257	County Name: WELD
Facility Name: WANDELL 11-7	Latitude: 40.155540	Longitude: -104.939186	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: WELL	Facility ID: _____	API #: 123-22397	County Name: WELD
Facility Name: WANDELL 23-7	Latitude: 40.155121	Longitude: -104.939170	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: WELL	Facility ID: _____	API #: 123-31220	County Name: WELD
Facility Name: WANDELL 2-0-7	Latitude: 40.155314	Longitude: -104.939370	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: WELL	Facility ID: _____	API #: 123-32139	County Name: WELD
Facility Name: WANDELL 4-4-7	Latitude: 40.155261	Longitude: -104.939365	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: OFF-LOCATION FLOWLINE	Facility ID: 473085	API #: _____	County Name: WELD
Facility Name: Wellhead Line 7H-D267	Latitude: 40.157602	Longitude: -104.937944	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: OFF-LOCATION FLOWLINE	Facility ID: 473086	API #: _____	County Name: WELD
Facility Name: Wellhead Line 7H-D267	Latitude: 40.157597	Longitude: -104.937938	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: OFF-LOCATION FLOWLINE	Facility ID: 473087	API #: _____	County Name: WELD
Facility Name: Wellhead Line 7H-D267	Latitude: 40.157604	Longitude: -104.937956	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? Yes
Facility Type: OFF-LOCATION FLOWLINE	Facility ID: 473088	API #: _____	County Name: WELD
Facility Name: Wellhead Line 7H-D267	Latitude: 40.157600	Longitude: -104.937951	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: OFF-LOCATION FLOWLINE	Facility ID: 473089	API #: _____	County Name: WELD
Facility Name: Wellhead Line 7H-D267	Latitude: 40.157624	Longitude: -104.937952	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? No
Facility Type: SPILL OR RELEASE	Facility ID: 486150	API #: _____	County Name: WELD
Facility Name: Wandell 11-7, 13-7, 2-0-7, 23-7	Latitude: 40.155540	Longitude: -104.939186	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 7	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SM

Most Sensitive Adjacent Land Use Residential

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

A Seasonal ditch is 315-ft to the N.
The Irrigation Well (DWR Receipt 9062300, Permit 15943-F) approx 690-ft to the NW is the nearest permitted water well. This well was constructed to 52-ft, is now abandoned, and static water level was recorded at 19-ft.
Groundwater has potential to be less than 20 ft at the disturbance location. (It is likely that water has receded since 1972).
This location is not within a HPH area. 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
UNDETERMINED	GROUNDWATER	TBD	Laboratory Analytical if Encountered
Yes	SOILS	700' X 200' X 4' 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 WANDELL 2N67W 7SWNW (336440) and WANDELL-62N67W 7SWNW (331589) oil and gas locations pertaining to the cut/cap of the WANDELL 11-7 (05-123-21257), WANDELL 12-7 (05-123-20948), WANDELL 13-7 (05-123-21258), WANDELL 23-7 (05-123-22397), WANDELL 2-0-7 (05-123-31220), WANDELL 4-4-7 (05-123-32139), abandonment of the associated 12321257_FL, 12320948_FL, 12322397_FL, 12331220_FL, 12332139_FL wellhead lines, and the WANDELL 13-7 (05-123-21258) and WANDELL 23-7 (05-123-22397) on-location flowlines. 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):

Nine grab soil samples were collected from the wellhead and flowline locations, four composite soil samples were collected from the stockpiled overburden for laboratory analysis of Table 915-1 metals and organics in soil, TPH C6-36, EC, SAR, pH, and boron. Additional site investigation will be required at the bend locations in the flowline. Soil samples will be collected for laboratory analysis of Table 915-1 organics and metals in soil, 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):

If groundwater is encountered during excavation activities, a grab sample will be collected for laboratory analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, chlorides, sulfates, and TDS.

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):

Additional site investigation will be required at the bend locations in the flowline. Soil samples will be collected for laboratory analysis of Table 915-1 organics and metals in soil, TPH C6-36, EC, SAR, pH, and boron. Also, every 250' of flowline a soil sample will be collected at 4' below ground surface for field screening purposes.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

NA / ND

Number of soil samples collected 13 -- Highest concentration of TPH (mg/kg) 451.2
 Number of soil samples exceeding 915-1 13 -- Highest concentration of SAR 4
 Was the areal and vertical extent of soil contamination delineated? No BTEX > 915-1 No
 Approximate areal extent (square feet) 14000 Vertical Extent > 915-1 (in feet) 4
0

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?

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 will be scheduled. Grab soil samples will be collected to determine the lateral and vertical extent of impacts above ECMC standards. Soil samples will be analyzed by a certified laboratory for Table 915-1 metals and organics in soil, TPH C6-36, EC, SAR, pH, and boron. Background samples will be collected off the oil and gas location in homogenous soil horizons and/or corresponding depths as the excavation confirmation samples. The Wandell 12-7 and 4-4-7 still need to be plugged and abandoned prior to the start of source removal. A site assessment will be scheduled prior to source removal to delineate the impacted media.

REMEDICATION 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.

Contingent on source removal and the plugging and abandonment of the Wandell 12-7 and 4-4-7, the estimated timeframe to achieve a no further action will be December 30, 2025.

Soil Remediation Summary

In Situ **Ex Situ**
 _____ Bioremediation (or enhanced bioremediation) _____ Excavate and offsite disposal
 _____ Chemical oxidation _____
 If Yes: Estimated Volume (Cubic Yards) _____

_____ Air sparge / Soil vapor extraction
_____ Natural Attenuation
_____ Other _____

_____ 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.

Does Groundwater meet Table 915-1 standards? _____

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.

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. 02/23/2024

Actual Spill or Release date, or date of discovery. 02/22/2024

SITE INVESTIGATION DATES

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

Proposed site investigation commencement. 09/12/2023

Proposed completion of site investigation. 02/01/2025

REMEDIAL ACTION DATES

Proposed start date of Remediation. 02/01/2025

Proposed date of completion of Remediation. 12/30/2025

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: 03/25/2024

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: Kari Brown

Date: 06/20/2024

Remediation Project Number: 31104

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**

403729664	INVESTIGATION/REMEDATION WORKPLAN (SUPPLEMENTAL)
403729707	SITE INVESTIGATION REPORT
403830978	FORM 27-SUPPLEMENTAL-SUBMITTED

Total Attach: 3 Files

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

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)