

State of Colorado  
Energy & Carbon Management Commission

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Document Number:  
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Receive Date:

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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: OWN RESOURCES OPERATING LLC	Operator No: 10699	<b>Phone Numbers</b>
Address: 305 S RIDGE STREET #6279		Phone: (713) 6287339
City: BRECKENRIDGE State: CO Zip: 80424		Mobile: ( )
Contact Person: Niels Phaf	Email: niels.phaf@ownresources.com	

**PROJECT, PURPOSE & SITE INFORMATION**

**PROJECT INFORMATION**

Remediation Project #: 41321 Initial Form 27 Document #: 404242344

**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**

No  Multiple Facilities

Facility Type: SPILL OR RELEASE	Facility ID: 489740	API #: _____	County Name: YUMA
Facility Name: Eyestone 03-35	Latitude: 40.273990	Longitude: -102.588400	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SENE	Sec: 35	Twp: 4N	Range: 47W Meridian: 6 Sensitive Area? Yes

**SITE CONDITIONS**

General soil type - USCS Classifications SC Most Sensitive Adjacent Land Use Non Crop Land

Is domestic water well within 1/4 mile? No 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**

Irrigation well approximately 2542' northwest, water depth >172', designated groundwater management area, designated basin, a freshwater emergent approximately 1939 feet east, no high priority habitat

**SITE INVESTIGATION PLAN**

**TYPE OF WASTE:**

- E&P Waste       Other E&P Waste       Non-E&P Waste
- Produced Water       Workover Fluids
- Oil       Tank Bottoms
- Condensate       Pigging Waste
- Drilling Fluids       Rig Wash
- Drill Cuttings       Spent Filters
- Pit Bottoms
- Other (as described by EPA)

**DESCRIPTION OF IMPACT**

Impacted?	Impacted Media	Extent of Impact	How Determined
Yes	SOILS	Low-Medium	Soil Analysis

**INITIAL ACTION SUMMARY**

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

From Form 19 Initial Report Doc #404159978  
 During a routine field inspection of the Eyestone 3-35 well site, an ECMC Field Inspector observed soil staining around the wellhead. Upon further investigation by the Operator, the Field Foreman has estimated that approximately 5 barrels of produced water had spilled onto the ground. No surface water was present for recovery. The spill was attributed to a check valve cap that had been removed and not properly replaced. The check valve was replaced on March 20, 2025.

**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 ):

On March 28 & April 3 2025, a total of four soil samples were collected—three from within the impacted area and one background sample taken approximately 45 feet southeast of the spill zone. The attached map identifies the sample locations in relation to the affected area. All samples were submitted for laboratory analyses required per Table 915-1.

**Proposed Groundwater Sampling**

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

No groundwater was encountered.

**Proposed Surface Water Sampling**

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

No surface water encountered

**Additional Investigative Actions**

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

**SITE INVESTIGATION REPORT**

## **SAMPLE SUMMARY**

### **Soil**

Number of soil samples collected 4  
Number of soil samples exceeding 915-1 4  
Was the areal and vertical extent of soil contamination delineated? Yes  
Approximate areal extent (square feet) 1426

### **NA / ND**

ND Highest concentration of TPH (mg/kg) \_\_\_\_\_  
-- Highest concentration of SAR 16.9  
BTEX > 915-1 No  
Vertical Extent > 915-1 (in feet) 1

### **Groundwater**

Number of groundwater samples collected 0  
Was extent of groundwater contaminated delineated? No  
Depth to groundwater (below ground surface, in feet) \_\_\_\_\_  
Number of groundwater monitoring wells installed \_\_\_\_\_  
Number of groundwater samples exceeding 915-1 \_\_\_\_\_

\_\_\_\_\_ Highest concentration of Benzene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Toluene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Ethylbenzene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Xylene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ 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?

One background soil sample was collected from an undisturbed area with native soils, located approximately 45 feet southeast of the spill area. The sample was analyzed for soil suitability and in accordance with Table 915-1. This background sample will serve as a baseline reference for evaluating soil conditions throughout the remainder of the reclamation project.

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.

Analytical results from soil samples indicate elevated levels of SAR, pH, boron, and arsenic above applicable thresholds. The impacted area will be addressed through in-place treatment.

### **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.

In April, the spill site was treated with gypsum for SAR at a rate of 1,000 lbs./acre to displace sodium and improving soil structure and with Soil Soil at a rate of 1 quart/acres treatment to dilute elevated constituents and help buffer pH levels. The soil amendments were incorporated into the soil using a rototiller to a depth of approximately 12 to 18 inches to reduce compaction, and promote soil health and remediation.

Arsenic – Request for No Further Action- results indicate that arsenic concentrations in the impacted area (Sample #1: 1.16 mg/kg), (Sample #2: 1.31 mg/kg), (Sample #3: 1.07 mg/kg) are comparable to the background level (1.31 mg/kg). Although all values exceed the Table 915-1 threshold, the minimal difference between the samples and background suggests that the arsenic is naturally occurring. No treatment is proposed for arsenic at this time.

Two confirmation soil sample will be collected in Qrt.-2 2026 to verify levels, sample will be analyzed for soil suitability for reclamation.

### **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

\_\_\_\_\_ Name of Licensed Disposal Facility or ECMC Facility ID # \_\_\_\_\_

Yes \_\_\_\_\_ Natural Attenuation

\_\_\_\_\_ Excavate and onsite remediation

Yes \_\_\_\_\_ Other \_\_\_\_\_ Gypsum and Soft soil \_\_\_\_\_

\_\_\_\_\_ 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.

To ensure the gypsum and soft soil were properly mixed into the soil profile, the spill area was rototilled to a depth of approximately 12 to 18 inches. The treated area has been leveled and shows visible furrowing consistent with deep tillage to promote infiltration, alleviate compaction, and support root development (see photobook in attachments). The location will be monitored visually following the treatment.

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? No \_\_\_\_\_

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

Did the local soil conservation district provide the seed mix? No \_\_\_\_\_

### SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 04/23/2025

Proposed date of completion of Reclamation. 05/30/2027

## 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. 04/01/2025

Actual Spill or Release date, or date of discovery. 02/06/2025

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 04/23/2025

Proposed site investigation commencement. 04/01/2025

Proposed completion of site investigation. 06/11/2025

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 04/23/2025

Proposed date of completion of Remediation. 12/01/2026

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**

This update is for quarterly reporting. No significant work has been done since last Form 27 I submission. COA's from doc#404242344 are addressed below:

1. Samples will be re-collected and re-analyzed for Table 915-1 analytes– Operator is using a different laboratory.
2. Operator will re-sample and collect analytical results to verify that remediation has been completed in 2 Qtr 2026 a year after in-situ remediation.
3. Residential SSL can be used for the following reasons 1) The closest water well is located approximately 2595' to the northeast and was drilled to a depth of 300 feet. Although no detailed cuttings report is available in the files, lithology from offset wells in the area indicates the presence of multiple thick clay and limestone intervals between sand units. These clay and limestone zones act as impermeable barriers, making it difficult for surface contaminants to migrate to deeper zones, including the deep water-bearing zone. Given the depth of this well, it is reasonable to extrapolate lithology from surrounding wells, and it is highly probable that multiple clay and/or limestone layers separate the surface from the deeper water-bearing zone. 2) No groundwater or surface water was encountered at the location. 3) The spill was relatively small, estimated at approximately 5 barrels.
4. The selected remedial methods are recommendations from a local agronomist and are appropriate for the soils in the area. As a remediation method for the boron exceedance SOIL SOFT was applied for soil conditioning. This was incorporated into the soil using a rototiller to a depth of approximately 12 to 18 inches to reduce compaction and promote soil health, promote water infiltration and remediation.
5. Noted – this update if for quarterly reporting. Operator is requesting to provide semi-annual updates on progress to make updates more substantial.

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

Signed: Azucena Torres

Title: Remediation & Reclamation

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

Email: azucena.torres@ownresources.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: 41321

**COA Type**

**Description**

<u>COA Type</u>	<u>Description</u>
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**

<u>Att Doc Num</u>	<u>Name</u>

Total Attach: 0 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)