

State of Colorado  
Oil and Gas Conservation Commission

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403171384  
Receive Date:  
12/01/2022  
Report taken by:  
KRIS NEIDEL

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 COGCC 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>KP KAUFFMAN COMPANY INC</u> | Operator No: <u>46290</u>   | Phone Numbers<br>Phone: <u>(303) 825-4822</u><br>Mobile: <u>( )</u> |
| Address: <u>1700 LINCOLN ST STE 4550</u>         |                             |   |
| City: <u>DENVER</u>                              | State: <u>CO</u>            | Zip: <u>80203</u>   |
| Contact Person: <u>Craig Meis</u>                | Email: <u>cmeis@kpk.com</u> |   |

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 11879 Initial Form 27 Document #: 401769517

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: <u>SPILL OR RELEASE</u>         | Facility ID: <u>447185</u> | API #: _____                  | County Name: <u>JACKSON</u>                                     |
| Facility Name: <u>SPILL/RELEASE POINT</u>      | Latitude: <u>40.756420</u> | Longitude: <u>-106.208360</u> |   |
| ** correct Lat/Long if needed: Latitude: _____ |                            | Longitude: _____              |   |
| QtrQtr: <u>NENE</u>                            | Sec: <u>13</u>             | Twp: <u>9n</u>                | Range: <u>79w</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u> |

SITE CONDITIONS

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

There is no residence within a quarter mile of the release. There are no habitable structures within a quarter mile of the release. County Road 19A is located within a quarter mile of the site. No lakes, rivers, streams, or 100-year flood plains within a quarter mile of the site. High Priority habitat is not within a quarter mile of the release. There are no Bald Eagle Roost sites, or Bald Eagle active nest site half mile buffer within a quarter mile of the release. There is 1 water well within a quarter mile of the site.

**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          | 190'x4'          | Visual extent and laboratory 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.

KPK was notified of a release at the site, and immediately dispatched crews, to shut in the line. Additional crews were dispatched, and Free product was removed utilizing a Hyrdovac to eliminate hydrocarbons transporting across the site. The remaining soil was tilled and treated in place.

**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 ):

Under the prior operator, Bonanza Creek, three initial soil sample analytical results came back above COGCC Table 910-1 concentration levels for inorganics. The soil was treated in place and resampled a year later. The subsequent analytical results indicate continued exceedence of COGCC Table 910-1 standards for inorganics. KPK has been operating the facility since the spring of 2018 and has continued tilling/discing the impacted. Soil samples collected on 09-26-2018 indicate that inorganics have come down near Table 910-1 levels, but are not below the threshold. KPK will continue tilling and Marcom will collect additional at depth soil samples as well as background samples under COGCC Table 915-1 standards.

**Proposed Groundwater Sampling**

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

[Empty box for groundwater sampling details]

**Proposed Surface Water Sampling**

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

[Empty box for surface water sampling details]

**Additional Investigative Actions**

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

Additional at depth confirmation and background samples.

**SITE INVESTIGATION REPORT**

**SAMPLE SUMMARY**

**Soil**

Number of soil samples collected 3  
Number of soil samples exceeding 915-1 3  
Was the areal and vertical extent of soil contamination delineated? Yes  
Approximate areal extent (square feet) 760

**NA / ND**

NA Highest concentration of TPH (mg/kg) \_\_\_\_\_  
-- Highest concentration of SAR 20.8  
BTEX > 915-1 No  
Vertical Extent > 915-1 (in feet) 0

**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?

A bar ditch carried the produced water off location. KPK continues to till the bar ditch to remediate the impact.

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?

Additional at depth confirmation and background samples.

**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 of the impacts was shut in when the release was discovered. Free product was removed utilizing a Hyrdovac to eliminate hydrocarbons transporting across the site. Work will proceed after consultation with Colorado Parks and Wildlife and the US Fish and Wildlife Agency. The remaining impacted soil will be tilled regularly until the impact has been removed and confirmation soil samples are compliant with COGCC Table 915-1.

**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.

The impacted soil will be tilled regularly until the impact has been remediated. Confirmation soil samples will be collected as described in the Rule 915.e. (2) Guidance Document and will be analyzed for TPH (C6-C36), Table 915-1 Organic Compounds in Soil, Table 915-1 metals, and Table 915-1 Soil Suitability for Reclamation (Electrical conductivity, Sodium adsorption ratio, and pH by saturated paste method, boron (hot water soluble). Samples will be collected in accordance to COGCCs table 915-1 sample collection guidelines table . If needed, extent borings may be installed, and soil samples collected to further evaluate the extent of soil impacts. COGCC will be provided with a 48 hr. notice prior to any sampling event.

**Soil Remediation Summary**

In Situ

Ex Situ

No Bioremediation ( or enhanced bioremediation ) \_\_\_\_\_ Excavate and offsite disposal

No Chemical oxidation  
 No Air sparge / Soil vapor extraction  
 No Natural Attenuation  
 Yes Other mechanical tilling

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

**Groundwater Remediation Summary**

No Bioremediation ( or enhanced bioremediation )  
 No Chemical oxidation  
 No Air sparge / Soil vapor extraction  
 No Natural Attenuation  
 No 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.



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

Operator shall comply with the COGCC 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.

Upon receiving confirmation sample analytical that shows all impacts have been removed, KPK will submit request for Backfill to the state. Upon completion of the backfill KPK will consult with the landowner on seeding preference. Reclamation will commence following the 1000 series reclamation 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? Yes

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

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

### SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 08/11/2023

Proposed date of completion of Reclamation. 09/08/2023

## 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. 08/03/2016

Actual Spill or Release date, or date of discovery. 08/03/2016

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/28/2016

Proposed site investigation commencement. 07/28/2016

Proposed completion of site investigation. 06/16/2023

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 07/28/2016

Proposed date of completion of Remediation. 11/03/2023

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**

Due to previous soil samples being collected under COGCC Table 910-1, MarCom recollected at depth confirmation and collected background samples as described in the Rule 915.e.(2) Guidance Document and will be analyzed for TPH (C6-C36), Table 915-1 Organic Compounds in Soil, Table 915-1 metals, and Table 915-1 Soil Suitability for Reclamation (Electrical conductivity, Sodium adsorption ratio, and pH by saturated paste method, boron (hot water soluble) on 09/15/2022. The analytical results will be included in the next supplemental Form 27.

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

Signed: Harrison Coleman

Title: Environmental Scientist

Submit Date: 12/01/2022

Email: PrimaryContractor@marcomllc.net

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

COGCC Approved: Candice (Nikki) Graber

Date: 12/02/2022

Remediation Project Number: 11879

**COA Type****Description**

|        |   |
|--------|---|
|        | <p>Per COAs on Document #401840122:</p> <ul style="list-style-type: none"> <li>- A more aggressive treatment of 910-1 exceedances may be necessary.</li> <li>- Initial spill date was 8/2/2016. All natural attenuation (land treatment) activity should be completed within three years of initial spill date (8/2/2019).</li> </ul> <p>Completion of land treatment is now more than 2 years overdue. Therefore Operator shall propose a more aggressive means of remediating impacts on the next Supplemental Form 27.</p> |
|        | <p>In accordance with Rule 913.e.(3), Operator will adopt a quarterly reporting schedule. COGCC selected Quarterly under Remediation Progress Update.</p> <p>Note: Previous quarterly reporting was submitted 11/14/2018.</p>   |
|        | <p>Operator reports that the location is not within a high priority habitat however the location is within a mapped Greater Sage Grouse Priority Habitat Management Area. Operator shall consult with Colorado Parks and Wildlife and submit correspondence on the next Supplemental Form 27.</p>   |
| 3 COAs |   |

**Attachment Check 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**

|           |                                |
|-----------|--------------------------------|
| 403171384 | FORM 27-SUPPLEMENTAL-SUBMITTED |
| 403241185 | MAP                            |
| 403241187 | SITE MAP                       |
| 403241192 | SOIL SAMPLE LOCATION MAP       |
| 403241193 | SOIL SAMPLE LOCATION MAP       |

Total Attach: 5 Files

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

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

Total: 0 comment(s)