

State of Colorado
Oil and Gas Conservation Commission

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Document Number:
403162642

Receive Date:
09/12/2022

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 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
Address: <u>1700 LINCOLN ST STE 4550</u>		Phone: <u>(720) 434-2215</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>		Mobile: <u>()</u>
Contact Person: <u>Ray Gorka</u>	Email: <u>rgorka@kpk.com</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 15797 Initial Form 27 Document #: 402458531

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>476987</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>NESSSU CONSOLIDATION</u>	Latitude: <u>40.129619</u>	Longitude: <u>-104.798581</u>	
	** correct Lat/Long if needed: Latitude: <u>40.129588</u>	Longitude: <u>-104.798612</u>	
QtrQtr: <u>NWNE</u>	Sec: <u>20</u>	Twp: <u>2N</u>	Range: <u>66W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u>

SITE CONDITIONS

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

Is domestic water well within 1/4 mile? Yes Is surface water within 1/4 mile? Yes

Is groundwater less than 20 feet below ground surface? Yes

Other Potential Receptors within 1/4 mile

Approximately one resident within a 1/4 mile buffer, County road 20 is 442' to the North; CR 17 is 707' north of the release. Surface water is located 1197' East of the release. NO high priority wildlife habitat within 1/4 mile buffer.

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	28x27'	Soil samples

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 flowline release on 6/20/2020 by the surface owner's tenant farmer. Entire flowline system was shut-in on 6/20/2020 in response to the notification. Release occurred in a corn field affecting at least one row of corn in the field. Initial excavation and hydrovac was performed to remove any free surface product present at the time of response to the flowline release notification. Soil excavation continued to be removed at the site utilizing a PID until Volatile impacts were no longer present.

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):

Final vertical and horizontal extent of excavation will be based on limits of excavation and on results from grab soil samples and photoionization detector (PID) field screening. Confirmation soil samples will be collected as described in the Rule 915.e.(2) Guidance Document and will be analyzed for Full COGCC Table 915-1 constituents. Soil samples were collected from sidewalls (6) and bottom of excavation (2) collected as well as background samples (6). Available results are attached. Metals analysis have now been received; see attached report with data summary. MarCom proposes additional investigation/excavation be conducted to remove elevated levels of Table 915-1 Metals . A map of the proposed sampling location is attached.

Proposed Groundwater Sampling

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

If encountered, a grab groundwater sample will be collected from the excavation. Groundwater samples will be analyzed for Table 915-1 Organic Compounds in Groundwater and Table 915-1 inorganic parameters.

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):

MarCom proposes additional investigation/excavation be conducted to remove elevated levels of Table 915-1 Metals . A map of the proposed sampling location is attached. Remedial activities were paused do to agriculture activities and planting on the property where the facility was located. Remedial activities will recommence after harvesting activities have completed, proposed to return to the site on November 1.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 24
Number of soil samples exceeding 915-1 24
Was the areal and vertical extent of soil contamination delineated? No
Approximate areal extent (square feet) 750

NA / ND

ND Highest concentration of TPH (mg/kg) _____
-- Highest concentration of SAR 3.39
BTEX > 915-1 No
Vertical Extent > 915-1 (in feet) 4

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?

Background samples were collected as part of the site investigation and background value was calculated by taking away the highest and lowest outliers averaging the remaining values and multiplying that average by 1.25. Confirmation samples remain elevated above Background levels for Table 915-1 Metals.

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

Volume of solid waste (cubic yards) 112 Volume of liquid waste (barrels) 0

Is further site investigation required?

MarCom proposes additional investigation/excavation be conducted to remove elevated levels of Table 915-1 Metals. A map of the proposed sampling location is attached. Remedial activities were paused do to agriculture activities and planting on the property where the facility was located. Remedial activities will recommence after harvesting activities have completed, proposed to return to the site on November 1.

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, and excavation commenced to eliminate hydrocarbons transporting across the site. All impacted soil will be excavated and hauled to a certified disposal location. Investigation/excavation will continue until impacts are fully removed. Remedial activities were paused do to agriculture activities and planting on the property where the facility was located. Remedial activities will recommence after harvesting activities have completed, proposed to return to the site on November 1.

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.

Excavation will be performed to remove impacted soil from the release location. Impacted soil will be brought to a certified disposal facility. Excavation and disposal of impacted soil will proceed until PID field screening results indicate that soil impacts have been removed. Following a 48 hour notification to COGCC, confirmation samples will be collected and analyzed for full Table 915-1 constituents. If groundwater is found to be impacted, a groundwater monitoring plan will be submitted for review and approval to address known impacts to groundwater. Confirmation soil samples indicated that elevated levels of COGCC Table 915-1 Metals remain, and further investigation/excavation is required. Remedial activities were paused do to agriculture activities and planting on the property where the facility was located. Remedial activities will recommence after harvesting activities have completed, proposed to return to the site on November 1.

Soil Remediation Summary

In Situ

Ex Situ

_____ Bioremediation (or enhanced bioremediation)

Yes _____ Excavate and offsite disposal

_____ Chemical oxidation

_____ If Yes: Estimated Volume (Cubic Yards) _____ 112

_____ Air sparge / Soil vapor extraction

_____ Name of Licensed Disposal Facility or COGCC Facility ID # _____

_____ Natural Attenuation

_____ 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.

Groundwater is encountered during remediation, groundwater samples will be collected, and a Groundwater Monitoring (GWM) Plan will be proposed to COGCC. Upon approval of the GWM plan, COGCC will be provided with a 72-hour notice before well installation.

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 sampling 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? 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. 02/01/2023

Proposed date of completion of Reclamation. 02/28/2023

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. 06/20/2020

Actual Spill or Release date, or date of discovery. 06/20/2020

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 06/21/2020

Proposed site investigation commencement. 06/21/2020

Proposed completion of site investigation. 03/18/2022

REMEDIAL ACTION DATES

Proposed start date of Remediation. 02/01/2022

Proposed date of completion of Remediation. 11/25/2022

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:

Property owner wanted to plant crops for the year, access to release point was removed, and remedial activities were put on pause. Remedial activities are scheduled to recommence following the completion of Harvesting.

OPERATOR COMMENT

Longitude and Latitude corrections were collected by MarCom field personal during sampling activities to verify the correct site coordinates. The updated coordinates are the correct coordinates for the release.

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

Signed: Levi Kirk

Title: Project Manager

Submit Date: 09/12/2022

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: 12/05/2022

Remediation Project Number: 15797

COA Type**Description**

	Operator shall provide an updated surface owner notification date.
	On the next Supplemental Form 27 Operator shall provide map(s) showing all sample point taken to date at this location.
	Per the CPA and Document #402843842: "If further excavation of soils as proposed by Operator in this document, is a necessary course of action, the operator will perform such excavation by 26 February, 2022 with follow-up sampling and analysis to be conducted and reported to COGCC by 26 March, 2022 via a supplemental form 27" "Operator must conduct proposed sampling and analysis of soils in the excavation and related background soils sampling and analysis with soils analytical data to be submitted to COGCC by 26 January, 2022 in a supplemental form 27." Note: These COAs have not been me.
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**

403162642	FORM 27-SUPPLEMENTAL-SUBMITTED
403163043	ANALYTICAL RESULTS
403163044	ANALYTICAL RESULTS
403163045	ANALYTICAL RESULTS
403163046	ANALYTICAL RESULTS
403163047	ANALYTICAL RESULTS
403163048	ANALYTICAL RESULTS
403163049	ANALYTICAL RESULTS
403163050	ANALYTICAL RESULTS
403163051	ANALYTICAL RESULTS
403163054	SOIL SAMPLE LOCATION MAP

Total Attach: 11 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)