

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

402612067

Receive Date:

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.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

Report taken by:

OPERATOR INFORMATION

Name of Operator: <u>DCP OPERATING COMPANY LP</u>	Operator No: <u>4680</u>	<b>Phone Numbers</b>
Address: <u>370 17TH STREET - SUITE 2500</u>	Phone: <u>(303) 6051718</u>	
City: <u>DENVER</u>	State: <u>CO</u>	Zip: <u>80202</u>
Contact Person: <u>Stephen Weathers</u>	Email: <u>swweathers@dcpmidstream.com</u>	
		Mobile: <u>( )</u>

PROJECT, PURPOSE & SITE INFORMATION

**PROJECT INFORMATION**

Remediation Project #: 13272 Initial Form 27 Document #: 402004215

**PURPOSE INFORMATION**

901.e. Sensitive Area Determination  
 909.c.(1), Rule 905: Pit or PW vessel closure  
 909.c.(2), Rule 906: Spill/Release Remediation  
 909.c.(3), Rule 907.e.: Land treatment of oily waste  
 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure

909.c.(5), Rule 910.b.(4): Remediation of impacted ground water  
 Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b.  
 Rule 909.e.(2)B.: Closure of remediation project  
 Rule 906.c.: Director request  
 Other \_\_\_\_\_

**SITE INFORMATION** N Multiple Facilities ( in accordance with Rule 909.c. )

Facility Type: <u>SPILL OR RELEASE</u>	Facility ID: <u>463819</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>CR42 and CR13</u>	Latitude: <u>40.292285</u>	Longitude: <u>-104.941832</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>SESE</u>	Sec: <u>24</u>	Twp: <u>4N</u>	Range: <u>68W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

**SITE CONDITIONS**

General soil type - USCS Classifications SC Most Sensitive Adjacent Land Use Livestock and Farmland adjacent to the Site.

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? Yes

**Other Potential Receptors within 1/4 mile**

Livestock approximately 260 feet east. Agricultural land adjacent to the west and south of the leak location.

# 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 type="checkbox"/> Produced Water        | <input type="checkbox"/> Workover Fluids             |  |
| <input 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	85000 sq ft	Hydrocarbon condensate material observed at ~12' bgs - 3 MW's & 1 piezometer (destroyed)
Yes	SOILS	94000 sq ft	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.

This Form 27 is being submitted to request an extension to the specified date of February 27, 2021 set forth in the approved Form 27 #'s 402585596 and 402578782 for the site specific soil and groundwater sampling and analysis plan. DCP is currently performing additional investigation soil and groundwater sampling including monitoring well installation for background sampling and analysis as requested by the COGCC. Based on laboratory analytical data from these activities, the site specific sampling plan for soil and groundwater will be provided to the COGCC for review by March 19, 2021.

## **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 ):

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### **Proposed Groundwater Sampling**

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

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### **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 ):

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# SITE INVESTIGATION REPORT

## SAMPLE SUMMARY

### Soil

Number of soil samples collected 0  
Number of soil samples exceeding 910-1 0  
Was the areal and vertical extent of soil contamination delineated? Yes  
Approximate areal extent (square feet) 10000  
0

### NA / ND

NA Highest concentration of TPH (mg/kg) \_\_\_\_\_  
NA Highest concentration of SAR \_\_\_\_\_  
BTEX > 910-1 Yes  
Vertical Extent > 910-1 (in feet) 20

### Groundwater

Number of groundwater samples collected 0  
Was extent of groundwater contaminated delineated? Yes  
Depth to groundwater (below ground surface, in feet) 16'  
Number of groundwater monitoring wells installed 10  
Number of groundwater samples exceeding 910-1 0

NA Highest concentration of Benzene (µg/l) \_\_\_\_\_  
NA Highest concentration of Toluene (µg/l) \_\_\_\_\_  
NA Highest concentration of Ethylbenzene (µg/l) \_\_\_\_\_  
NA Highest concentration of Xylene (µg/l) \_\_\_\_\_  
NA Highest concentration of Methane (mg/l) \_\_\_\_\_

### Surface Water

0 Number of surface water samples collected  
0 Number of surface water samples exceeding 910-1  
If surface water is impacted, other agency notification may be required.

## OTHER INVESTIGATION INFORMATION

Were impacts to adjacent property or offsite impacts identified?

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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) 97617      Volume of liquid waste (barrels) 1890

Is further site investigation required?

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# 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.

Per the license agreements between DCP and private landowners at the Site, the preferred remedial method for impacted soil consist of excavation "dig and haul" methods with subsequent off-Site disposal at an approved landfill and backfilling and compaction with clean fill material. Based on previously reported investigation activities, clean overburden soil has been observed throughout the Site between the surface and a minimum of 8-feet bgs. Prior to accessing impacted soil for remediation, the overburden soil has been removed and staged on-Site to be used as backfill material once impacted soil excavation and removal is complete. As of January 11, 2021, approximately 97,617 cubic yards of impacted soil have been transported to an approved landfill for disposal.

## 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 remediation option for subsurface soil consists of excavation and disposal and site preparation activities were initiated on January 6, 2020. Excavation activities to the northwest of CR42 and CR13 began in February 2020 and on the east side of CR13 in April 2020. DCP was granted access to remediate soil and groundwater beneath CR42 and CR13 from the Weld County Public Works Right-of-Way division in October 2020. As described in the approved February 24 Form 27S and August 25, 2020 Form 27S and Remediation Work Plan Letter, chemical oxidation (chemox) using hydrogen peroxide was applied to the base of the excavation areas subsequent to obtaining clean soil sample analytical results to assist in achieving groundwater clean-up standards. Based on soil sample analytical data that has been collected from the excavations, it appears that shallow impacts to soil and the perched groundwater interval are successfully being remediated through excavation and disposal. Excavation of impacted soils is being tracked and sampled per a 20' x 20' grid system, where each designated cell is cleared of impacted soils with laboratory confirmation samples from the excavation extents (sidewalls, if required, and base). Approximately 97,617 cubic yards of impacted soil have been transported to an approved landfill for disposal. This Form 27 is being submitted to request an extension to the specified date of February 27, 2021 set forth in the approved Form 27 #'s 402585596 and 402578782 for the site specific soil and groundwater sampling and analysis plan. DCP is currently performing additional investigation soil and groundwater sampling including monitoring well installation for background sampling and analysis. Based on laboratory analytical data from these activities, the site specific sampling plan for soil and groundwater will be provided to the COGCC for review by March 19, 2021.

## Soil Remediation Summary

In Situ

Ex Situ

\_\_\_\_\_ Bioremediation ( or enhanced bioremediation )

Yes Excavate and offsite disposal

\_\_\_\_\_ Chemical oxidation

If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_ 97617

\_\_\_\_\_ 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

No \_\_\_\_\_ Bioremediation ( or enhanced bioremediation )

No \_\_\_\_\_ Chemical oxidation

No \_\_\_\_\_ Air sparge / Soil vapor extraction

No \_\_\_\_\_ Natural Attenuation

Yes \_\_\_\_\_ Other \_\_\_\_\_ Removal and disposal \_\_\_\_\_

## 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.

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# REMEDIATION PROGRESS UPDATE

## PERIODIC REPORTING

Frequency:  Quarterly  Semi-Annually  Annually  Other Reporting requirements will be determined following completion of Site investigation

Report Type:  Groundwater Monitoring  Land Treatment Progress Report  O&M Report

Other Form 27 Remediation Workplan and Update

## WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? Yes

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

Impacted soils have been disposed of at the Waste Management North Weld County Landfill and Buffalo Ridge Landfill. Approximately 756 barrels of groundwater were recovered via the recovery trenches discussed previously and another 1,130 barrels of groundwater were recovered from the base of the excavation on the east side.

Volume of E&P Waste (solid) in cubic yards 97617

E&P waste (solid) description Petroleum hydrocarbon impacted soils

COGCC Disposal Facility ID #, if applicable:

Non-COGCC Disposal Facility: Waste Management North Weld County Landfill

Volume of E&P Waste (liquid) in barrels 1890

E&P waste (liquid) description Petroleum hydrocarbon impacted groundwater

COGCC Disposal Facility ID #, if applicable:

Non-COGCC Disposal Facility: Pawnee Waste

## REMEDIATION COMPLETION REPORT

### REMEDIATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? No

Do all soils meet Table 910-1 standards? \_\_\_\_\_

Does the previous reply indicate consideration of background concentrations? \_\_\_\_\_

Are the only residual soil impacts pH, SAR, or EC at depths greater than 3 feet below ground surface? \_\_\_\_\_

Does Groundwater meet Table 910-1 standards? \_\_\_\_\_

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

## 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.

Remediation of impacted soils and groundwater is ongoing. Subsequent to completed remediation activities, a reclamation plan will be issued to the COGCC for approval.

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 approve the seed mix? \_\_\_\_\_

If NO, does the seed mix comply with local soil conservation district recommendations? \_\_\_\_\_

# IMPLEMENTATION SCHEDULE

## PRIOR DATES

Date of Surface Owner notification/consultation, if required. 04/02/2019

Actual Spill or Release date, if known. 04/02/2019

## SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 04/02/2019

Date of commencement of Site Investigation. 04/04/2019

Date of completion of Site Investigation. \_\_\_\_\_

## REMEDIAL ACTION DATES

Date of commencement of Remediation. 04/04/2019

Date of completion of Remediation. \_\_\_\_\_

## SITE RECLAMATION DATES

Date of commencement of Reclamation. \_\_\_\_\_

Date of completion of Reclamation. \_\_\_\_\_

## OPERATOR COMMENT

This Form 27 is being submitted to request an extension to the specified date of February 27, 2021 set forth in the approved Form 27 #'s 402585596 and 402578782 for the site specific soil and groundwater sampling and analysis plan. DCP is currently performing additional investigation soil and groundwater sampling including monitoring well installation for background sampling and analysis as requested by the COGCC. Based on laboratory analytical data from these activities, the site specific sampling plan for soil and groundwater will be provided to the COGCC for review by March 19, 2021.

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

Signed: Stephen Weathers

Title: Environmental Specialist

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

Email: COGCCnotification@dcpmidstream.com

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: \_\_\_\_\_

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

Remediation Project Number: 13272

## COA Type

## Description

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## 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

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Total Attach: 0 Files

## General Comments

## User Group

## Comment

## Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)