

State of Colorado
Oil and Gas Conservation Commission

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Report taken by:
BOB CHESSON

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

OPERATOR INFORMATION

Name of Operator: DCP OPERATING COMPANY LP	Operator No: 4680	Phone Numbers Phone: (303) 6051718 Mobile: (303) 6193042
Address: 370 17TH STREET - SUITE 2500		
City: DENVER	State: CO	Zip: 80202
Contact Person: Steve Weathers	Email: swweathers@dcpmidstream.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION
Remediation Project #: 9353 Initial Form 27 Document #: 200437992

PURPOSE INFORMATION

<input type="checkbox"/> 901.e. Sensitive Area Determination	<input checked="" type="checkbox"/> 909.c.(5), Rule 910.b.(4): Remediation of impacted ground water
<input type="checkbox"/> 909.c.(1), Rule 905: Pit or PW vessel closure	<input type="checkbox"/> Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b.
<input type="checkbox"/> 909.c.(2), Rule 906: Spill/Release Remediation	<input type="checkbox"/> Rule 909.e.(2)B.: Closure of remediation project
<input type="checkbox"/> 909.c.(3), Rule 907.e.: Land treatment of oily waste	<input type="checkbox"/> Rule 906.c.: Director request
<input type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure	<input checked="" type="checkbox"/> Other Quarterly groundwater monitoring and reporting

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

Facility Type: GAS COMPRESSOR STATION	Facility ID: 422082	API #: _____	County Name: WELD
Facility Name: TAMPA COMPRESSOR STATION	Latitude: 40.176300	Longitude: -104.489400	
	** correct Lat/Long if needed: Latitude: 40.176587	Longitude: -104.489836	
QtrQtr: SW	Sec: 31	Twp: 3N	Range: 63W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

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

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

Livestock and domestic wells located 1/4 mile of release.

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- | | | |
|--|---|--|
| <input type="checkbox"/> E&P Waste | <input checked="" 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 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 checked="" type="checkbox"/> Other (as described by EPA) <u>Petroleum hydrocarbon impacted groundwater</u> | |

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
Yes	GROUNDWATER	See Approved F27S Report 402567349	Groundwater sampling
No	SOILS	See Approved F27S Report 402567349	Lab 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.

Initial actions and completed remedial measures have previously been submitted to the COGCC in the Form 19 Initial (Document #400785370) dated February 3, 2015, Form 19 Supplemental (Document #40078873 and #400930163) dated February 10 and November 11, 2015. A Form 27 Site Investigation and Remediation Work Plan (Document #400927294) approved November 18, 2015 was issued to the COGCC and detailed completed excavation activities and the installation monitoring well locations to further delineate the extent of impacts to groundwater. The COGCC issued Spill tracking facility ID# 440770 and remediation project #9353 for the Site. Previous remediation efforts have included excavation of impacted soils, installation of 12 monitoring well locations, and vacuum enhanced fluid recovery (EFR) remediation activities. Ongoing groundwater monitoring is being performed at the Site on a quarterly basis and summarized in approved Form 27S workplans. Details of the First Quarter 2021 groundwater monitoring event are provided within this Form 27 submittal.

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):

Based on the information presented in the approved F27S (#402591732), further soil sampling and investigation is not anticipated at this time.

Proposed Groundwater Sampling

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

Twelve (12) groundwater monitoring wells were installed at the Site to monitor dissolved phase total petroleum hydrocarbon impacts to groundwater. Ongoing quarterly groundwater monitoring is being performed at the Site at well locations illustrated on the attached Figure 2. Groundwater samples are submitted for laboratory analysis and groundwater monitoring will continue until analytical results demonstrate that concentrations below COGCC Table 915-1 standards for four consecutive quarterly monitoring events, at which time a no further action (NFA) determination for the Site will be requested from the COGCC.

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):

DCP completed demolition activities between 8/17/2020 and 9/30/2020 and based on soil sample analytical data collected from multiple excavations, soil above Table 910-1 standards has been removed. Remediation activities performed between 8/21/2020 and 9/30/2020 removed approximately 1,176 cubic yards (CY) of impacted material for off-site disposal. The soil samples collected were submitted for laboratory analysis of BTEX and TPH-GRO/DRO. In addition, and at the request of the landowner, DCP removed black colored soil that was confirmed below COGCC standards, to the extent practical. Approximately 733 CY of the black colored soil was removed for off-site disposal. Ongoing groundwater monitoring/remediation at the existing groundwater monitoring network is required.

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) 700

NA / ND

NA Highest concentration of TPH (mg/kg) _____
NA Highest concentration of SAR _____
BTEX > 910-1 Yes
Vertical Extent > 910-1 (in feet) 10

Groundwater

Number of groundwater samples collected 12
Was extent of groundwater contaminated delineated? Yes
Depth to groundwater (below ground surface, in feet) 10'
Number of groundwater monitoring wells installed 12
Number of groundwater samples exceeding 910-1 0

ND Highest concentration of Benzene (µg/l) _____
-- Highest concentration of Toluene (µg/l) 140
-- Highest concentration of Ethylbenzene (µg/l) 210
-- Highest concentration of Xylene (µg/l) 1100
NA Highest concentration of Methane (mg/l) _____

Surface Water

0 Number of surface water samples collected
 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?

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.

As previously reported in a Form 27 Remediation Work Plan, initial source remediation efforts performed February 2, 2015 removed surface-stained soils via hydrovacuum excavation methods. Between May 6 and 22, 2015 an additional 210 CY of impacted soils and 33 bbls of groundwater were removed from the Site. In the northwest corner of the Site, in-situ remediation activities were performed to address impacts to soils within the vadose zone that were inaccessible due to facility infrastructure. Twelve monitoring wells have been installed to delineate petroleum hydrocarbon impacts to groundwater. Between April 28, 2015 and May 17, 2017, regular EFR remediation activities were performed removing approximately 1,188 bbls of additional impacted groundwater from the Site. During the building demolition and soil remediation activities performed between 8/21/2020 and 9/30/2020, approximately 1,176 CY of impacted material was removed for off-site disposal. In addition, and at the request of the landowner, DCP removed black colored soil that was confirmed below COGCC standards to the extent practical. Approximately 733 CY of the black colored soil was removed for off-site disposal.

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 addition to the source removal remediation activities described above, air sparge (AS) and soil vapor extraction (SVE) activities were performed at the Site August 29, 2017 and February 7, 2018. Active remedial efforts were discontinued to evaluate subsurface conditions without the influence of active remediation. Ongoing groundwater monitoring has been performed at the Site on a quarterly basis through March 2021 and will continue until a period of four consecutive quarterly monitoring events have demonstrated that groundwater impacts are below COGCC Table 915-1 standards. At that time, a no further action (NFA) determination for the Site will be requested from the COGCC. First Quarter 2021 groundwater monitoring activities are further described in the following Groundwater Monitoring section.

Soil Remediation Summary

In Situ

- _____ Bioremediation (or enhanced bioremediation)
- _____ Chemical oxidation
- _____ Air sparge / Soil vapor extraction
- _____ Natural Attenuation
- _____ Other _____

Ex Situ

- _____ Excavate and offsite disposal
- _____ 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

- _____ 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.

Site-wide groundwater sampling is conducted on a quarterly basis at the 12 Site monitoring well locations illustrated on the attached Figure 2. During the 1Q21 monitoring event, performed on March 29, 2021, groundwater levels and samples were collected from all 12 Site well locations using standard hand bailing sampling methods, and were submitted to Summit Scientific Laboratory (Summit) for analysis using USEPA method 8260B (BTEX, 1,2,4-trimethylebenzene, 1,3,5-trimethylebenzene and naphthalene). In addition, three samples were collected from wells located upgradient (BH04), within the release area (BH06) and downgradient (BH09) for comparison of the Table 915-constituents of total dissolved solids (TDS), chloride and sulfate to determine background levels. Concentrations ranged from 446 to 1,100 mg/L for TDS, 15.0 to 51.4 mg/L for chloride and 7.6 mg/L to 548 mg/L for sulfate and while sulfate was returned above Table 915-1 standards, the reported concentrations for these parameters should be considered representative of the local groundwater conditions. Groundwater elevations and flow trends are presented in Table 1 and illustrated on Figure 3. 1Q21 laboratory analytical data is summarized in Table 2 and on Figure 4, historical Site groundwater data is summarized in Table 3, and the laboratory analytical report is attached. Analytical results indicated the BTEX concentrations in all 12 wells were below the COGCC Table 915-1 standards and only 1,2,4-TMB concentrations in three wells (BH04, BH06 and BH11) were above COGCC Table 915-1 standards in the 1Q21 event. Ongoing groundwater monitoring will continue to be performed on a routine basis.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Frequency: Quarterly Semi-Annually Annually Other _____
Report Type: Groundwater Monitoring Land Treatment Progress Report O&M Report
 Other Excavation and Soil Summary - NFA and Closure _____

WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? No _____

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

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

E&P waste (solid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

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

E&P waste (liquid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

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? No _____

Is additional groundwater monitoring to be conducted? Yes _____

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.

Groundwater impacts and monitoring are associated with an inactive and former compressor station. Following the completion of onsite decommissioning activities in 2020, the COGCC approved Form 27S (#402591732). DCP continues to work with the landowner and the area will be backfilled, regraded and reseeded per landowner and COGCC approval. Access roads for remaining oil and gas infrastructure will be built per landowner approval. No further reclamation activities are planned at this time.

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. _____

Actual Spill or Release date, if known. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). _____

Date of commencement of Site Investigation. 02/02/2015

Date of completion of Site Investigation. _____

REMEDIAL ACTION DATES

Date of commencement of Remediation. 02/06/2015

Date of completion of Remediation. _____

SITE RECLAMATION DATES

Date of commencement of Reclamation. _____

Date of completion of Reclamation. _____

OPERATOR COMMENT

As described above, three groundwater samples were collected from a downgradient, source and upgradient well location for comparison of the Table 915-1 constituents of total dissolved solids (TDS), chloride, and sulfate. While sulfate was returned above the Table 915-1 standard at one well location, the reported concentrations for sulfate, TDS and chloride appear to be representative of the natural groundwater conditions beneath the site and/or are not considered indicative of historical petroleum hydrocarbon impacts associated with midstream processes or the release.

With COGCC approval, DCP proposes that the groundwater monitoring activities will continue sampling for the organic parameters listed in Table 915-1 on a quarterly basis. However, based on the initial results for the inorganic constituents during the first quarter 2021, DCP does not believe the inorganic parameters listed in Table 915 should be considered as constituents of concern for this Site and proposes to discontinue sampling of these analytes for all future quarterly monitoring events. DCP will comply with this interim Site-Specific Groundwater Sampling and Analysis Plan during each quarterly event with COGCC approval.

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

Signed: Steve Weathers _____

Title: Environmental Specialist _____

Submit Date: 04/15/2021 _____

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: BOB CHESSON _____

Date: 04/15/2021 _____

Remediation Project Number: 9353 _____

Condition of Approval**COA Type****Description**

0 COA	
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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**

402656483	FORM 27-SUPPLEMENTAL-SUBMITTED
402659565	MONITORING REPORT

Total Attach: 2 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)