

State of Colorado  
Energy & Carbon Management Commission

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Receive Date:  
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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 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: TOP OPERATING COMPANY	Operator No: 39560	Phone Numbers Phone: (303) 727-9915 Mobile: ( )
Address: 3609 S WADSWORTH BLVD STE 340		
City: LAKEWOOD	State: CO	Zip: 80235
Contact Person: Paul Herring	Email: paul.herring@topoperating.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 18090 Initial Form 27 Document #: 402679572

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: Wellhead, Flowline, and Tank Battery Closure

SITE INFORMATION

Yes Multiple Facilities

Facility Type: WELL	Facility ID:	API #: 123-10615	County Name: WELD
Facility Name: STAMP 31-2C		Latitude: 40.186450	Longitude: -105.048090
		** correct Lat/Long if needed: Latitude:	Longitude:
QtrQtr: NENW	Sec: 31	Twp: 3N	Range: 68W Meridian: 6 Sensitive Area? Yes

Facility Type: TANK BATTERY	Facility ID: 426981	API #:	County Name: WELD
Facility Name: Stamp 31-2 426981		Latitude: 40.186687	Longitude: -105.048643
		** correct Lat/Long if needed: Latitude: 40.186895	Longitude: -105.048765
QtrQtr: NENW	Sec: 31	Twp: 3N	Range: 68W Meridian: 6 Sensitive Area? Yes



From July 18 through August 23, 2021, excavation activities were conducted to address soil impacts at the former wellhead and confirmation soil samples were collected at depths ranging from 10' and 14' bgs. The soil samples were submitted for laboratory analysis of BTEX, TPH, TMBs, boron, pH, EC, SAR, PAHs, and/or ECMC Table 915-1 metals using ECMC-approved methods. Analytical results for the soil samples collected from the final excavation extents were in compliance with the applicable ECMC Table 915-1 standards and/or within background limits, with the exception of the inorganic concentrations in soil samples FL01@13', N02@10', N03@10', W02@10', and W01@10'. However, the inorganic exceedances of site-specific background limits are within the acceptable range of analytical variability of background limits. The initial waste characterization sample WHF01@4' did not contain inorganic exceedances.

### Proposed Groundwater Sampling

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

Groundwater was encountered in the wellhead excavation at approximately 13' bgs. On August 16, 2021, a groundwater sample (GW-EX) was collected from the wellhead excavation area and submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB by USEPA Method 8260D. Downgradient monitoring well EMW-01 was installed on October 29, 2021, to further assess groundwater impacts near the release location. Groundwater samples were collected from monitoring well EMW-01 on December 2 and 27, 2021 and submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB by USEPA Method 8260D. Analytical results indicated that constituent concentrations in the groundwater samples were in compliance with ECMC Table 915-1 standards. The groundwater analytical results are summarized in Table 2. The groundwater sample locations are illustrated in Figure 2.

### 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 ):

On July 18 - 27, 2021, visual inspection and field screening of soils was conducted at 4 sidewall locations within the cut and cap excavation area, 2 locations at the flowline removal potholes, and three ECD locations. Based on the inspection and screening results, hydrocarbon-impacted soil was not observed at the screening locations, and no soil samples were submitted for laboratory analysis from these areas in accordance with the ECMC Operator Guidance. Laboratory analytical reports are included.

## SITE INVESTIGATION REPORT

### SAMPLE SUMMARY

Soil	NA / ND
Number of soil samples collected <u>54</u>	-- Highest concentration of TPH (mg/kg) <u>11050</u>
Number of soil samples exceeding 915-1 <u>5</u>	-- Highest concentration of SAR <u>15.6</u>
Was the areal and vertical extent of soil contamination delineated? <u>Yes</u>	BTEX > 915-1 <u>Yes</u>
Approximate areal extent (square feet) <u>4992</u>	Vertical Extent > 915-1 (in feet) <u>14</u>
<b>Groundwater</b>	
Number of groundwater samples collected <u>3</u>	-- Highest concentration of Benzene (µg/l) <u>2.26</u>
Was extent of groundwater contaminated delineated? <u>Yes</u>	ND Highest concentration of Toluene (µg/l) <u>          </u>
Depth to groundwater (below ground surface, in feet) <u>13</u>	-- Highest concentration of Ethylbenzene (µg/l) <u>1.87</u>
Number of groundwater monitoring wells installed <u>1</u>	-- Highest concentration of Xylene (µg/l) <u>9.89</u>
Number of groundwater samples exceeding 915-1 <u>0</u>	NA Highest concentration of Methane (mg/l) <u>          </u>

#### 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 soil samples BKG01 through BKG05 were collected from native non-impacted material nearby from similar soil type/depths and land use at depths ranging from approximately 2.5' to 12' bgs. The background soil samples were submitted for laboratory analysis of the Soil Suitability for Reclamation Parameters and/or ECMC Table 915-1 metals using standard methods appropriate for detecting the target analytes in Table 915-1. Analytical results for the background soil samples are presented in Table 3-5.

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.

Between July 18 and August 23, 2021, approximately 2590 cubic yards of impacted material were excavated and transported to the Front Range Landfill located in Erie, Colorado for disposal; and approximately 50 barrels of groundwater was removed via hydrovac and transported to the NGL disposal facility located in La Salle, Colorado. The excavation area was backfilled and contoured to match pre-existing conditions.

### 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.

Analytical results for the soil samples collected from the final excavation extents were in compliance with the applicable ECMC Table 915-1 standards and/or within background limits, with the exception of the inorganic concentrations in soil samples FL01 @ 13', N02 @ 10', N03 @ 10', W02 @ 10', and W01 @ 10'. However, the inorganic exceedances of site-specific background limits are within the acceptable range of analytical variability of background limits. The initial waste characterization sample WHF01 @ 4' did not contain inorganic exceedances. In addition, analytical results indicated that constituent concentrations in the groundwater samples were in compliance with ECMC Table 915-1 standards. Based on the analytical data presented herein, assessment is complete at this site and no further activities are required. As such, Top Operating is requesting a No Further Action (NFA) determination for this location.

### Soil Remediation Summary

In Situ

Ex Situ

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

Yes \_\_\_\_\_ Excavate and offsite disposal

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

\_\_\_\_\_ If Yes: Estimated Volume (Cubic Yards) 2590

\_\_\_\_\_ Air sparge / Soil vapor extraction

\_\_\_\_\_ Name of Licensed Disposal Facility or ECMC 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.

## REMEDIATION PROGRESS UPDATE

### PERIODIC REPORTING

**Approved Reporting Schedule:**

Quarterly  Semi-Annually  Annually  Other NFA Request

**Request Alternative Reporting Schedule:**

Semi-Annually  Annually  Other

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

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

### Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).

If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

TOP Operating is adequately bonded per Rule 702 and has complied with the insurance requirements of Rule 705.

Operator anticipates the remaining cost for this project to be: \$ 0

### 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:

None.

Volume of E&P Waste (solid) in cubic yards 2590

E&P waste (solid) description impacted soil

ECMC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-ECMC Disposal Facility: Front Range Landfill located in Erie, Colorado

Volume of E&P Waste (liquid) in barrels 50

E&P waste (liquid) description groundwater

ECMC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-ECMC Disposal Facility: NGL disposal facility located in La Salle, Colorado

## REMEDIATION COMPLETION REPORT

### REMEDIATION COMPLETION SUMMARY

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

If YES:

Compliant with Rule 913.h.(1).

Compliant with Rule 913.h.(2).

Compliant with Rule 913.h.(3).

Do all soils meet Table 915-1 standards? Yes

Does the previous reply indicate consideration of background concentrations? Yes

Does Groundwater meet Table 915-1 standards? Yes

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.

Reclamation will be completed in accordance with ECMC 1000 Series Rules.

Is the described reclamation complete? Yes

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? No

### SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 09/22/2024

Proposed date of completion of Reclamation. 12/31/2024

## 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. 08/03/2021

Actual Spill or Release date, or date of discovery. 07/31/2021

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/18/2021

Proposed site investigation commencement. 07/18/2021

Proposed completion of site investigation. 12/27/2021

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 07/18/2021

Proposed date of completion of Remediation. 08/23/2021

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**

Per the COAs on approved Form 27-Site Investigation and Remediation Workplan Supplemental (Document No. 403839805), based on laboratory analytical results the soil samples collected during closure sampling activities and from the final excavation extents were in compliance with the applicable ECMC Table 915-1 standards and/or within background limits. Groundwater impacts do not exist at the site as the groundwater sample collected from the excavation area and the two groundwater samples collected from the downgradient monitoring well are compliant with ECMC Table 915-1 standards. Based on the analytical data presented herein and the conversation with the ECMC, assessment is complete at this site and no further activities are required. As such, Top Operating is requesting a No Further Action (NFA) determination for this location.

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

Signed: Paul Herring

Title: Landman

Submit Date: 09/22/2024

Email: paul.herring@topoperating.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: 18090

**COA Type****Description**

0 COA	
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**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.

<b>Att Doc Num</b>	<b>Name</b>
403905617	FORM 27 DENIED
403930083	OTHER
403930084	OTHER
403930085	OTHER
403930086	ANALYTICAL RESULTS
403930087	SOIL SAMPLE LOCATION MAP
403930088	SOIL SAMPLE LOCATION MAP
403930089	LOGS
403930090	ANALYTICAL RESULTS
403930091	PHOTO DOCUMENTATION
404049791	FORM 27-SUPPLEMENTAL-SUBMITTED

Total Attach: 11 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Environmental	In accordance with Rule 913.e.(3), Operator will adopt a quarterly reporting schedule (every 90 days).	01/07/2025

Environmental	<p>ECMC has denied this form and removed closure of this project. Laboratory analytical data provided by Operator indicates hydrocarbons were present in groundwater encountered during excavation.</p> <p>Operator will install monitoring wells to properly characterize groundwater (upgradient, within the source zone, cross gradient, and down gradient). Operator will analyze groundwater samples from all monitoring wells for Organic Compounds in Groundwater (benzene, toluene, ethylbenzene, xylenes, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene) and the Groundwater Inorganic Parameters (total dissolved solids, chloride, sulfate) for a minimum of four consecutive quarterly monitoring events.</p> <p>Future submittals shall include a maps showing the location of groundwater monitoring wells as well as groundwater gradient/flow direction. Operator shall submit Quarterly Monitoring Reports including all laboratory analytical reports for all samples collected during the reporting period as well as a map showing the location of all groundwater monitoring wells and groundwater gradient/flow direction.</p>	01/07/2025
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Total: 2 comment(s)

**DENIED**