FORM 27 Rev 5/22

State of Colorado
Energy & Carbon Management Commission

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Report taken by: RICK ALLISON

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 INFORMATON

Name of Operator: NOBLE ENERGY INC Operator No: 100322
Address: 1099 18TH STREET SUITE 1500
City: DENVER State: CO Zip: 80202
Contact Person: Dan Peterson Email: RBUEUF27@chevron.com

Phone Numbers
Phone: (970) 304-5000
Mobile: ( )

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 40315 Initial Form 27 Document #: 404157371

PURPOSE INFORMATION

- [ ] Rule 913.c.(1): Pit or Cuttings Trench closure.
- [X] 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.
- [X] 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: LOCATION Facility ID: 481874 API #: County Name: WELD
Facility Name: SESE 36-7N-64W State Tholen TB Loc Latitude: 40.524062 Longitude: -104.489049
** correct Lat/Long if needed: Latitude: 40.524120 Longitude: -104.489305
QtrQtr: SESE Sec: 36 Twp: 7N Range: 64W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SW
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? No

Other Potential Receptors within 1/4 mile

Within Mule Deer Severe Winter Range HPH
Within Pronghorn Winter Concentration Area HPH
Bald Eagle Active Nest Site - Half Mile Buffer HPH 0.05mi NW
Freshwater Emergent Wetland 0.01mi E, 0.11mi SE
Freshwater Pond 0.05mi NE, 0.17mi SE
Riverine 0.07mi N
Residential 0.06mi SW, 0.2mi SE
Farm Structure 0.03/0.05/0.06/0.07mi SW, 0.22mi NE

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- [X] **E&P Waste**
  - [X] Produced Water
  - [X] Oil
  - [X] Condensate
  - [ ] Drilling Fluids
  - [ ] Drill Cuttings
- [ ] **Other E&P Waste**
  - [ ] Workover Fluids
  - [ ] Tank Bottoms
  - [ ] Pigging Waste
  - [ ] Rig Wash
  - [ ] Spent Filters
  - [ ] Pit Bottoms
  - [ ] Other (as described by EPA) _____
- [ ] **Non-E&P Waste** _____

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
UNDETERMINED	GROUNDWATER	NA	Field Screening and Lab Analysis if Encountered
Yes	SOILS	Refer to Tables and Figures	Field Screening and 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.

A site investigation was conducted during the decommissioning of the SESE 36-7N-64W State Tholen Tank Battery location on 08/04/25 & 08/05/25.

Confirmation soil samples were collected from beneath the above-ground storage tanks (AST01, AST02), the bases of the produced water vault excavations (FS01, PWV01-B), and from the sidewalls in each cardinal direction (SS01-SS04, PWV01-N,E,S,W). Laboratory samples were also collected from under the flowline and dumpline risers of the separators (SEP01-FL, SEP02-FL, SEP01-DL, and SEP02-DL). Field screening samples were collected from beneath the flares (FLARE01, FLARE02) and meter house (MH01).

Analytical results indicate that Table 915-1 organic compounds were below regulatory standards for all decommissioning samples. Groundwater was encountered at the base of the produced water vessel excavation (PWV01-B), however there was not enough volume for a sample.

PROPOSED SAMPLING PLAN

Proposed Soil Sampling

[X] Will soil samples be collected as part of this investigation? (Number, type (grab/composite), analyses, and locations of samples):

Soil samples were collected as described in the Initial Action Summary of this Form 27 in accordance with the Initial Form 27 #404157371.

Soil samples were analyzed by a certified laboratory for the full extent of Table 915-1 using ECMC approved laboratory analysis methods, including but not limited to: TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons), organic compounds in soil per ECMC Table 915-1, EC, SAR, pH, metals, and boron.

Proposed Groundwater Sampling

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

Groundwater was encountered at the base of the produced water vessel excavation (PWV01-B), however there was not enough volume for a sample. Temporary monitoring wells will be installed at PWV01-B to collect a groundwater sample. Groundwater samples will be collected and analyzed for all organic compounds and inorganic parameters per ECMC Table 915-1; this sample analysis includes, but is not limited to BTEX, naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB by EPA Method 8260, chloride and sulfate anions by EPA Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

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):

Visual inspection at the tank battery area occurred during decommissioning. Personnel field screened all disturbed areas using visual and olfactory senses to determine if laboratory confirmation sampling was required. A detailed summary of the tank battery decommissioning activities, including field notes, site photos, figures, and laboratory analytical results, is attached to this Form 27.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected: 16

Number of soil samples exceeeding 915-1: 11

Was the areal and vertical extent of soil contamination delineated? No

Approximate areal extent (square feet): 1100

NA / ND

-- Highest concentration of TPH (mg/kg): 83.3

-- Highest concentration of SAR: 4.52

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): 4

Number of groundwater monitoring wells installed: 0

Number of groundwater samples exceeding 915-1: 0

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?

☐ 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?

Following the tank battery decommissioning, further site investigation is needed to assess site groundwater conditions and collect background samples.

A site investigation will be completed to collect a groundwater sample and additional background samples. Soil boring BH01 will be advanced at sample location PWV01-B and converted into a temporary monitoring well. Soil samples will be collected from the native soils exhibiting the highest screening level and from the boring terminus. A groundwater sample will be collected from the monitoring well to determine if there are any O & G impacts in groundwater. The soil and groundwater samples will be analyzed for all Table 915-1 contaminants. Background samples will be collected from soil borings BKG01-BKG05 to determine if elevated concentrations of arsenic, barium, and chromium can be attributed to native soil conditions at the site. Backgrounds will be analyzed for Table 915-1 metals, pH, EC, and SAR. The sampling locations are illustrated on the proposed site investigation plan attached to this Form 27. The investigation will be completed in accordance with the proposed implementation schedule, and the results will be submitted on a subsequent Form 27.

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.

No impacted material caused by oil and gas operations was identified at this time.

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.

Following the tank battery decommissioning, further site investigation is needed to assess site groundwater conditions and collect background samples. Groundwater was encountered at sample location PWV01-B, however there was an insufficient volume for collecting a groundwater sample. Background samples were not collected during decommissioning, so there is no basis by which to compare the arsenic, barium, and chromium exceedances to native soil conditions.

A site investigation will be completed to collect a groundwater sample and additional background samples. The sampling locations are illustrated on the proposed site investigation plan attached to this Form 27. The investigation will be completed in accordance with the proposed implementation schedule, and the results will be submitted on a subsequent Form 27.

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 ECMC 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.

Groundwater was encountered in the produced water vessel excavation (PWV01-B) at a depth of approximately 4 ft. bgs during initial decommissioning activities on 08/05/2025. There was not enough volume for a sample. The proposed site investigation proposed in this Form 27 will install a temporary monitoring well and collect a groundwater sample at sample location PWV01-B.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Approved Reporting Schedule:

[X] Quarterly [ ] Semi-Annually [ ] Annually [ ] Other

[ ] **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

[X] Other Decommissioning Sample Summary & Site Investigation Proposal

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.

Noble intends to directly address the costs of remediation at the locations as part of our asset retirement obligation process and operations. Noble has general liability insurance (policies MWZZ316714 and MWZX316724) and financial assurance in compliance with ECMC rules. Records are available on the ECMC's website. The cost for remediation is an estimate only, costs may change upwards or downward based on site-specific information. Noble makes no representation or guarantees as to the accuracy of the estimate.

Operator anticipates the remaining cost for this project to be: $ 50000

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

ECMC Disposal Facility ID #, if applicable:

Non-ECMC Disposal Facility:

Volume of E&P Waste (liquid) in barrels

E&P waste (liquid) description

ECMC Disposal Facility ID #, if applicable:

Non-ECMC Disposal Facility:

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?

Does the previous reply indicate consideration of background concentrations?

Does Groundwater meet Table 915-1 standards?

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 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?

[X] Interim [ ] Final

Did the Surface Owner provide the seed mix?

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

Did the local soil conservation district provide the seed mix?

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 08/04/2025

Proposed date of completion of Reclamation. 04/28/2027

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. 03/26/2025

Actual Spill or Release date, or date of discovery.

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 08/04/2025

Proposed site investigation commencement. 11/03/2025

Proposed completion of site investigation. 04/28/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 04/28/2026

Proposed date of completion of Remediation. 10/28/2026

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.

[X] Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

The implementation schedule has been changed due to the decommissioning of the SESE 36-7N-64W State Tholen Tank Battery location and necessity for supplemental site investigation activities adjacent to the tank battery. The proposed site investigation is tentatively scheduled for 04/28/26. The ECMC will be notified of any updates to the implementation schedule in a subsequent Form 27.

OPERATOR COMMENT

This Form 27 is being submitted to include the decommissioning results at the former SESE 36-7N-64W State Tholen Tank Battery location.

A site investigation was conducted during the decommissioning of the SESE 36-7N-64W State Tholen Tank Battery location on 08/04/25 & 08/05/25. Confirmation soil samples were collected from beneath the above-ground storage tanks (AST01, AST02), the bases of the produced water vault excavations (FS01, PWV01-B), and from the sidewalls in each cardinal direction (SS01-SS04, PWV01-N,E,S,W). Laboratory samples were also collected from under the flowline and dumpline risers of the separators (SEP01-FL, SEP02-FL, SEP01-DL, and SEP02-DL). Field screening samples were collected from beneath the flares (FLARE01, FLARE02) and meter house (MH01). Soil samples were collected in accordance with the Initial Form 27 #404157371 and analyzed for all Table 915-1 contaminants. Analytical results indicate that Table 915-1 organic compounds were below regulatory standards for all decommissioning samples.

Following the tank battery decommissioning, further site investigation is needed to assess site groundwater conditions and collect background samples. Groundwater was encountered at sample location PWV01-B, however there was an insufficient volume for collecting a groundwater sample. Background samples were not collected during decommissioning, so there is no basis by which to compare the arsenic, barium, and chromium exceedances to native soil conditions.

A site investigation will be completed to collect a groundwater sample and additional background samples. Soil boring BH01 will be advanced at sample location PWV01-B and converted into a temporary monitoring well. Soil samples will be collected from the native soils exhibiting the highest screening level and from the boring terminus. A groundwater sample will be collected from the monitoring well to determine if there are any O & G impacts in groundwater. The soil and groundwater samples will be analyzed for all Table 915-1 contaminants. Background samples will be collected from soil borings BKG01-BKG05 to determine if elevated concentrations of arsenic, barium, and chromium can be attributed to native soil conditions at the site. Backgrounds will be analyzed for Table 915-1 metals, pH, EC, and SAR. The sampling locations are illustrated on the proposed site investigation plan attached to this Form 27.

The results of the site investigation will be submitted on a subsequent Form 27. Quarterly reporting will be conducted until closure criteria are achieved for the remediation project.

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

Signed: Jeff Rollins Title: Env. Geologist III

Submit Date: 11/05/2025 Email: tas-chevron-5@tasman-geo.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: RICK ALLISON Date: 12/15/2025

Remediation Project Number: 40315

COA Type	Description
0 COA	

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.

Att Doc Num	Name
404395003	FORM 27-SUPPLEMENTAL-SUBMITTED
404421284	SITE INVESTIGATION PLAN
404421285	SITE INVESTIGATION PLAN
404421286	SITE INVESTIGATION REPORT
404421288	LABORATORY ANALYTICAL REPORT

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)