

State of Colorado
Energy & Carbon Management Commission

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Document Number:

404091256

Receive Date:

Report taken by:

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: PDC ENERGY INC	Operator No: 69175	Phone Numbers
Address: 1099 18TH STREET SUITE 1500		Phone: (303) 860-5800
City: DENVER	State: CO	Zip: 80202
Contact Person: Karen Olson	Email: karen.olson@chevron.com	Mobile: ()

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 33447 Initial Form 27 Document #: 403626812

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

Yes Multiple Facilities

Facility Type: WELL	Facility ID: _____	API #: 123-37692	County Name: WELD
Facility Name: Merritt 6-66-9-0560CH	Latitude: 40.509320	Longitude: -104.781140	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37694	County Name: WELD
Facility Name: Merritt 6-66-9-0758BH	Latitude: 40.509320	Longitude: -104.780700	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37706	County Name: WELD
Facility Name: Merritt 6-66-9-0857CH		Latitude: 40.509330	Longitude: -104.780480
		** correct Lat/Long if needed: Latitude: 40.509328	Longitude: -104.780489
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37710	County Name: WELD
Facility Name: Merritt 6-66-9-0659BH		Latitude: 40.509320	Longitude: -104.781030
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37713	County Name: WELD
Facility Name: Merritt 6-66-9-0659CH		Latitude: 40.509320	Longitude: -104.780980
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37722	County Name: WELD
Facility Name: Merritt 6-66-9-0560BH		Latitude: 40.509320	Longitude: -104.781200
		** correct Lat/Long if needed: Latitude: 40.509324	Longitude: -104.781206
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37729	County Name: WELD
Facility Name: Merritt 6-66-9-0758CDH		Latitude: 40.509330	Longitude: -104.780580
		** correct Lat/Long if needed: Latitude: 40.509328	Longitude: -104.780595
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37734	County Name: WELD
Facility Name: Merritt 6-66-9-0857BH		Latitude: 40.509330	Longitude: -104.780530
		** correct Lat/Long if needed: Latitude: 40.509327	Longitude: -104.780544
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: WELL	Facility ID: _____	API #: 123-37740	County Name: WELD
Facility Name: Merritt 6-66-9-0758CH		Latitude: 40.509320	Longitude: -104.780640
		** correct Lat/Long if needed: Latitude: 40.509328	Longitude: -104.780646
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE	Facility ID: 486171	API #: _____	County Name: WELD
Facility Name: Merritt 6-66-9-0659BH Wellhead		Latitude: 40.509316	Longitude: -104.781023
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE	Facility ID: 486298	API #: _____	County Name: WELD
Facility Name: Merritt 6-66-9-0560CH Wellhead		Latitude: 40.509316	Longitude: -104.781133
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE	Facility ID: 487057	API #: _____	County Name: WELD
Facility Name: Merritt 6-66-9-0659CH		Latitude: 40.509320	Longitude: -104.781140
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Facility Type: <u>SPILL OR RELEASE</u>		Facility ID: <u>487274</u>	API #: _____	County Name: <u>WELD</u>	
Facility Name: <u>Merritt Section 9 Wellhead Pad</u>			Latitude: <u>40.509166</u>	Longitude: <u>-104.780696</u>	
** correct Lat/Long if needed: Latitude: _____ Longitude: _____					
QtrQtr: <u>NENW</u>	Sec: <u>9</u>	Twp: <u>6N</u>	Range: <u>66W</u>	Meridian: <u>6</u>	Sensitive Area? <u>Yes</u>

SITE CONDITIONS

General soil type - USCS Classifications <u>SM</u>	Most Sensitive Adjacent Land Use <u>Agricultural</u>
Is domestic water well within 1/4 mile? <u>Yes</u>	Is surface water within 1/4 mile? <u>Yes</u>
Is groundwater less than 20 feet below ground surface? <u>Yes</u>	

Other Potential Receptors within 1/4 mile

Wellheads (0560BH, CH; 0659BH, CH; 0758BH, CDH, CH; 0857BH, CH): Nearest Well: Temporary Dewatering Well - Between 439' and 618' NW; Surface Water: Intermittent Creek - Between 457' and 600' NW; Occupied Building: Between 362' and 478' SW; Livestock: Between 293' and 297' N; FWS Wetlands: Between 440' and 568' NW Riverine (R5UBFx); 100-Year Floodplain Between 206' and 548' SW of Wellheads.

Flowline Conflict: Flowlines Cross into 100-Year Floodplain Between Approximately 406' and 587' SW of Wellheads and Traverses Approximately 761' SW Through Floodplain. Flowlines Cross Intermittent Stream Between Approximately 790' and 982' SW of Wellheads.

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 checked="" type="checkbox"/> Produced Water	<input type="checkbox"/> Workover Fluids	_____
<input checked="" 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	Refer to attached figures & tables	Confirmation GW Sampling
Yes	SOILS	Refer to attached figures & tables	Confirmation Soil Sampling

INITIAL ACTION SUMMARY

Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste.

Between February 26 and May 20, 2024 decommissioning and confirmation sampling activities were conducted at the former Merritt 6-66-9-0560BH wellhead, Merritt 6-66-9-0560CH wellhead, Merritt 6-66-9-0659BH wellhead, Merritt 6-66-9-0758BH wellhead, Merritt 6-66-9-0758CDH wellhead, Merritt 6-66-9-0758CH wellhead, Merritt 6-66-9-0857BH wellhead, Merritt 6-66-9-0857CH wellhead, Merritt 6-66-9-0659CH wellhead and removal of the associated flowlines.

Based on field observation and initial analytical results, on February 29, 2024, a historic release was discovered at the Merritt 6-66-9-0659BH Wellhead. Based on source material characterization soil sample analytical results (WH01-B, WC01), COCs for this release location include: BTEXN, TPH(C6-C36), pH, acenaphthene, benzo(a)anthracene, fluorene, pyrene, 1-methylnaphthalene (M), 2-M, arsenic, barium, cadmium, selenium, and zinc. Following the discovery of the release, approximately 24 cubic yards of impacted material were removed and transported to North Weld Waste Management in Ault, CO for disposal under PDC waste manifests. Between February 28 and March 1, 2024, 9 soil samples (SS01-SS05, WH01-[directional]) were collected from the base and sidewalls of the final excavation extent and were submitted for laboratory analysis of the full Table 915-1 analytical suite. Additionally, one soil sample (SS06) was collected from the root zone of the final excavation extent and submitted for laboratory analysis of pH, EC, SAR, and boron. Analytical results indicated organic compounds were below the applicable Table 915-1 Protection of Groundwater (POG) Soil Screening Levels (SSLs) from samples collected from the final excavation extent.

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):

On March 19, 2024, a second historic release was discovered following receipt of final analytical results from soil samples collected during decommissioning activities at the Merritt 6-66-9-0560CH Wellhead. Following the discovery of the release, approximately 9 cubic yards of impacted material were removed and transported to North Weld Waste Management in Ault, CO for disposal under a PDC waste manifest. On February 27, 2024, three soil samples (WH02, FLR02 & COMP01-FL02) were collected during the decommissioning of the wellhead. Soil samples were collected at depths ranging between approximately 4 feet and 6 feet below ground surface (bgs). The soil samples were submitted for laboratory analysis of the full ECMC Table 915-1 analytical suite. Final analytical results indicated that organic compounds were in exceedance of the applicable ECMC Table 915-1 POG SSLs in soil sample WH02, and release specific COCs include: BTEXN, TPH(C6-C36), pH, fluorene, 1-M, 2-M, and barium.

Proposed Groundwater Sampling

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

Groundwater was encountered during remedial excavation activities at the Merritt 6-66-9-0659BH Wellhead at 10 feet below ground surface and a grab sample was collected as soon as practical. Groundwater samples were submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene 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):

On June 6, 2024, a third historic release was discovered following review of analytical results from a soil sample collected during decommissioning activities at the Merritt 6-66-9-0659CH Wellhead at the flowline riser at the soil sample FLR05 location. On March 13, 2024, one soil sample (FLR05) was collected below flowline riser at a depth of approx. 4 ft. below ground surface (bgs). One soil sample (COMP01-FL05) was collected below the compressor flowline riser at a depth of approximately 4 ft. bgs. The soil samples were submitted for laboratory analysis of the full Table 915-1 analytical suite. Final analytical results indicated that organic compounds were in exceedance of the applicable ECMC Table 915-1 POG SSLs in soil sample FLR05, and release specific COCs include: BTEXN, TPH(C6-C36), pH, 1-M, 2-M, arsenic, barium and selenium. On July 9, 2024, a fourth historic release was discovered on the wellhead pad during reclamation activities.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 168

Number of soil samples exceeding 915-1 167

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

Approximate areal extent (square feet) 2000

NA / NOI

-- Highest concentration of TPH (mg/kg) 2090

-- Highest concentration of SAR 6

BTEX > 915-1 Yes

Vertical Extent > 915-1 (in feet) 10

Groundwater

Number of groundwater samples collected 1

Was extent of groundwater contaminated delineated? No

Depth to groundwater (below ground surface, in feet) 10

Number of groundwater monitoring wells installed 0

Number of groundwater samples exceeding 915-1 1

ND Highest concentration of Benzene (µg/l)

ND Highest concentration of Toluene (µg/l)

ND Highest concentration of Ethylbenzene (µg/l)

ND Highest concentration of Xylene (µg/l)

ND 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?

Between March 1 and April 3, 2024, two soil borings (BKG01 & BKG02) were advanced in native material adjacent to the wellhead locations and soil samples were collected at depths ranging between 4 feet and 8 feet bgs. Samples were submitted for laboratory analysis of pH, EC, SAR, and the Table 915-1 metals. Analytical results indicated SAR, arsenic, and barium were observed in exceedance of the applicable Table 915-1 standards in native material soil samples.

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

Volume of solid waste (cubic yards) 915

Volume of liquid waste (barrels) 0

☒ Is further site investigation required?

Additional source mass removal activities are required at the Merritt 6-66-0659BH wellhead release (spill #486171) following the discovery of benzantracene exceedances at soil sample locations SS07 @ 4' and SS08 @ 6' along the north wall of the excavation. Confirmation soil samples will be collected from the base and sidewalls of the final excavation extent and analyzed for the full Table 915-1 suite.

Following the review of decommissioning confirmation soil samples and infrastructure layout, PDC identified two locations along the flowline between the wellhead pad and Merritt Tank Battery which confirmation soil samples are warranted. Following landowner and crew availability, two additional soil borings will be advanced along the former flowline location to collect confirmation soil samples adjacent to a bend in the gas line and in the previously proposed soil sample location, near FL01-06. Proposed soil boring locations are detailed on Figure 1. In addition, all soil samples that were submitted for a reduced analyte list will be resampled and submitted for laboratory analysis of the full Table 915-1 suite. A proposed map will be included in a subsequent Supplemental Form 27 following the completion of supplemental source mass removal activities.

Concurrent or subsequent to the source mass removal activities and supplemental site investigation activities, additional soil samples will be collected in native material to further evaluate soil suitability for reclamation (SSR) and Table 915-1 metal concentrations in native material.

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.

On February 27, 2024, approximately 9 cubic yards of impacted material were removed adjacent to the former Merritt 6-66-9-0560CH Wellhead. Between February 28 and March 1, 2024, approximately 24 cubic yards of impacted material were removed adjacent to the former Merritt 6-66-9-0659BH Wellhead. On February 29, 2024, approximately 2 cubic yards of impacted material were removed adjacent to the former Merritt 6-66-9-0857BH Wellhead.

Between June 6 and 7, 2024, approximately 107.5 cubic yards of impacted material were removed adjacent to the former Merritt 6-66-9-0659BH Wellhead. On June 7, 2024, approximately 42.5 cubic yards of impacted material were removed adjacent to the former Merritt 6-66-9-0560CH Wellhead. Between July 9 and 18, 2024, approximately 730 cubic yards of impacted material were removed on the Merritt Wellhead Pad.

All impacted soils removed from site was transported to North Weld Waste Management in Ault, CO for disposal under PDC waste manifests.

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.

Prior to excavation activities at the Merritt 6-66-9-0659CH wellhead, the wellhead was cut and capped on May 20, 2024 in accordance with ECOM Rule 911. Due to the release at soil sample FLR05, confirmation soil samples around the wellhead were taken during remedial excavation activities.

On July 9, 2024, during reclamation activities on the wellhead pad, a 4th historic release was discovered. One soil sample (WC03) was collected from the most visually impacted material on the wellhead pad at a depth of approximately 1 ft. bgs and was submitted for laboratory analysis of the full Table 915-1 analytical suite. Final analytical results indicated that organic compounds were in exceedance of the applicable ECOM Table 915-1 POG SSLs, and release specific COCs include: Organic compounds in soil, TPH, pH, arsenic, barium and selenium. Between July 12 and 18, 2024, 50 soil samples (SS01-SS50) were collected from the release extent and analyzed for the aforementioned COC list. Analytical results indicated organic compounds were below applicable standards in samples collected from the final excavation extent.

Based on the analytical results for the confirmation soil samples collected during remedial excavation activities, additional source mass removal is required to address the benzantracene exceedances at soil sample locations SS07 @ 4' and SS08 @ 6' along the north wall of the Merritt 6-66-9-0659BH Wellhead excavation. Remaining impacted material will be removed via mechanical excavation and transported offsite for disposal. Following excavation activities, confirmation soil samples will be collected from the final excavation extents and submitted for laboratory analysis of the full Table 915-1 suite.

A summary of excavation activities and analytical results will be provided in a forthcoming Supplemental Form 27.

Soil Remediation Summary

☐ In Situ

☒ Ex Situ

Bioremediation (or enhanced bioremediation)

Yes Excavate and offsite disposal

Chemical oxidation

If Yes: Estimated Volume (Cubic Yards) 915

Air sparge / Soil vapor extraction

Name of Licensed Disposal Facility or ECOM 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.

Following the completion of supplemental source mass removal activities, a groundwater monitoring well network will be proposed.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Approved Reporting Schedule:

☒ 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

☒ Other 1Q25 Timeline Update

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.

Operator does not have site-specific financial assurance for this project; however, Operator has inactive well, blanket, and surface bonding including Surety IDs 106077122, 106473808, and 106473820, as well as commercial general liability and/or umbrella/excess insurance meeting the requirements of Rule 705.b. Operator does not anticipate making an insurance claim for this project.

- Decommissioning and confirmation soil sampling activities associated with the former Merritt 6-66-9-0560BH wellhead, Merritt 6-66-9-0560CH wellhead, Merritt 6-66-9-0659BH wellhead, Merritt 6-66-9-0758BH wellhead, Merritt 6-66-9-0758CDH wellhead, Merritt 6-66-9-0758CH wellhead, Merritt 6-66-9-0857BH wellhead, Merritt 6-66-9-0857CH wellhead, Merritt 6-66-9-0659CH, and removal of the associated flowlines have been completed
- Source mass removal activities and confirmation soil sampling activities are complete at the Merritt Wellhead Pad location (Spill #487274), and the Merritt 6-66-9-0560CH location (Spill #486298).
- Additional source mass removal activities adjacent to the Merritt 6-66-9-0659CH Wellhead and Merritt 6-66-9-0659BH Wellhead locations (Spill #4877507 & #486171) needs to be completed due to benzantracene exceedances along the north wall of the excavation extent.
- Additional site investigation activities are warranted to address SSR and metal conditions in native material.

Costs included herein are estimates only and may change over time based on numerous factors. Accordingly, Operator makes no guarantees as to the accuracy of such cost estimates, thus providing an estimate for the next year below.

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

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:

No beneficial use

Volume of E&P Waste (solid) in cubic yards 915

E&P waste (solid) description Hydrocarbon Impacted Material

ECMC Disposal Facility ID #, if applicable:

Non-ECMC Disposal Facility: North Weld Waste Management

Volume of E&P Waste (liquid) in barrels 0

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 conducted in accordance with ECMC 1004 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? _____

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. 02/28/2024

Proposed date of completion of Reclamation. 12/31/2028

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. 10/26/2023

Actual Spill or Release date, or date of discovery. 02/29/2024

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 01/08/2024

Proposed site investigation commencement. 02/12/2025

Proposed completion of site investigation. 08/12/2025

REMEDIAL ACTION DATES

Proposed start date of Remediation. 08/12/2025

Proposed date of completion of Remediation. 12/31/2026

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.

☒ Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

The implementation schedule has been updated to reflect the necessity to conduct additional supplemental source mass removal activities adjacent to the Merritt 6-66-9-0659BH Wellhead, site investigations along the flowline, and additional native material evaluation. The proposed date of completion of remediation has been updated to account for installing the monitoring well network and monitoring groundwater for four consecutive quarters.

OPERATOR COMMENT

This Form 27 is being submitted as a first quarter 2025 timeline update for the completion of the remedial excavation at the Merritt 6-66-9-0659BH wellhead location. A proposal to excavate the benzantracene exceedances identified during remediation activities at soil samples SS07 @ 4' and SS08 @ 6' is presented in the Remedial Action Plan section of this Form 27. Concurrent or subsequent to the source mass removal activities, additional soil samples will be collected in native material to further evaluate soil suitability for reclamation (SSR) or Table 915-1 metal concentrations in native material.

Two additional soil borings will be advanced along the former flowline location to collect confirmation soil samples adjacent to a bend in the gas line and in the previously proposed soil sample location, near FL01-06. In addition, all soil samples that were submitted for a reduced analyte list will be resampled and submitted for laboratory analysis of the full Table 915-1 suite. A proposed map will be included in a subsequent Supplemental Form 27 following the completion of supplemental source mass removal activities.

Following the completion of supplemental source mass removal activities, a groundwater monitoring well network will be proposed.

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

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

Signed: Jesse Marcus

Title: Environmental Consultant

Submit Date: _____

Email: Tas-Chevron-5@tasman-geo.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with ECOMC Rules and applicable orders and is hereby approved.

ECMC Approved: _____

Date: _____

Remediation Project Number: 33447

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

404145912	SITE INVESTIGATION PLAN
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Total Attach: 1 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)