

State of Colorado Oil and Gas Conservation Commission

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Document Number:

403044611

Receive Date:

05/11/2022

Report taken by:

John Heil

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.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

OPERATOR INFORMATION

Name of Operator: <u>LOCIN OIL CORPORATION</u>	Operator No: <u>51130</u>	Phone Numbers
Address: <u>600 TRAVIS ST STE 6161</u>		Phone: <u>(303) 902-1593</u>
City: <u>HOUSTON</u> State: <u>TX</u> Zip: <u>77002</u>		Mobile: <u>()</u>
Contact Person: <u>Daniel Benedict</u>	Email: <u>dbenedict@arb.energy</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 18768 Initial Form 27 Document #: 402711179

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: Rule 911.a

SITE INFORMATION

Yes Multiple Facilities

Facility Type: <u>LEASE</u>	Facility ID: <u>44466</u>	API #: <u></u>	County Name: <u>RIO BLANCO</u>
Facility Name: <u>FORK UN 3-22-1-2</u>	Latitude: <u></u>	Longitude: <u></u>	
** correct Lat/Long if needed: Latitude: <u></u>		Longitude: <u></u>	
QtrQtr: <u>NENW</u>	Sec: <u>22</u>	Twp: <u>1S</u>	Range: <u>102W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u>
Facility Type: <u>PIT</u>	Facility ID: <u>101884</u>	API #: <u></u>	County Name: <u>RIO BLANCO</u>
Facility Name: <u>Fork Unit 3-22-1-2</u>	Latitude: <u>39.951898</u>	Longitude: <u>-108.831583</u>	
** correct Lat/Long if needed: Latitude: <u></u>		Longitude: <u></u>	
QtrQtr: <u>NENW</u>	Sec: <u>22</u>	Twp: <u>1S</u>	Range: <u>102W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u>

Facility Type: PIT	Facility ID: 101885	API #:	County Name: RIO BLANCO
Facility Name: FORK UNIT 3-22		Latitude: 39.951898	Longitude: -108.831583
		** correct Lat/Long if needed: Latitude:	Longitude:
QtrQtr: NENW	Sec: 22	Twp: 1S	Range: 102W Meridian: 6 Sensitive Area? No

Facility Type: WELL	Facility ID:	API #: 103-08283	County Name: RIO BLANCO
Facility Name: FORK UNIT-FEDERAL 3-22-1-2		Latitude: 39.952667	Longitude: -108.833150
		** correct Lat/Long if needed: Latitude:	Longitude:
QtrQtr: NENW	Sec: 22	Twp: 1S	Range: 102W Meridian: 6 Sensitive Area? No

Facility Type: LOCATION	Facility ID: 315309	API #:	County Name: RIO BLANCO
Facility Name: FORK UNIT-FEDERAL-61S102W 22NENW		Latitude: 39.952568	Longitude: -108.832883
		** correct Lat/Long if needed: Latitude:	Longitude:
QtrQtr: NENW	Sec: 22	Twp: 1S	Range: 102W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications OH Most Sensitive Adjacent Land Use Rangeland

Is domestic water well within 1/4 mile? No Is surface water within 1/4 mile? No

Is groundwater less than 20 feet below ground surface? No

Other Potential Receptors within 1/4 mile

An ephemeral drainage lies approximately 250 feet to the south.

SITE INVESTIGATION PLAN

TYPE OF WASTE:

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

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
UNDETERMINED	SOILS	TBD	Field Screening & Analytical Data

INITIAL ACTION SUMMARY

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

The Tank Battery, Flowline and Wellhead Closure Checklist will be utilized as guides to inspect and document the location. Initial actions will consist of site delineation and determining impacts at various points on the site location. Soil samples will be collected via hand auguring to a depth of 5 feet below the surface in one (1) foot intervals and field screened using a Photo-Ionizing Detection (PID) unit and a Petroflag. After removal of the AST, a photograph of the bottom of the AST and footprint will be taken, and the area field screened. After removal of the separator, a photograph will be taken and the area field screened. After removal of the meter house, a photograph will be taken and the area field screened. The on location flowline will probably be removed. Since the line held pressure prior to abandonment, field screening will be performed and photo documentation done at reasonable distances along the entire evacuation of the on location flowline. The area around the wellhead will be inspected, field screened and photos taken of the excavation and surface areas.

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):

A minimum of one soil sample will be collected from the area around the AST and separator exhibiting the highest degree of impact, or in the absence of apparent impacts, samples will be collected directly below the service hatch, load out valve or subsurface piping connection of the AST and below the inlet lines and below the dump lines exiting the separator. A soil sample will be taken from the area adjacent to the connection around the meter house. If impacts are determined around the meter house, soil samples will be collected from the area both upstream and downstream of the meter house location. If impacts are determined along the on location flowline, soil samples will be collected from impacted areas. If petroleum impacted soils are encountered during the well head cut and cap operations, a soil sample will be taken; otherwise a soil sample will be collected from the area exhibiting the highest degree of impact, or in the absence of (Continued under "Operator Comments")

Proposed Groundwater Sampling

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

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):

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 10
Number of soil samples exceeding 915-1 0
Was the areal and vertical extent of soil contamination delineated?
Approximate areal extent (square feet) 0

Groundwater

Number of groundwater samples collected 0
Was extent of groundwater contaminated delineated? No
Depth to groundwater (below ground surface, in feet)
Number of groundwater monitoring wells installed
Number of groundwater samples exceeding 915-1

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.

NA / ND

-- Highest concentration of TPH (mg/kg) 0
-- Highest concentration of SAR 0
BTEX > 915-1
Vertical Extent > 915-1 (in feet) 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)

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.

The well has been plugged and abandoned, removing the source. It is unknown at this time if hydrocarbon impacts are present.

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.

If it is determined soils exceed COGCC Table 915-1 thresholds, they will be excavated via backhoe/track hoe and stockpiled onsite for further evaluation. Once field screening results indicate that all impacted soils have been excavated and soils satisfy COGCC Table 915-1 thresholds, additional confirmation samples will be collected from within the location. Confirmation samples will consist of one final full COGCC Table 915-1 sample collected from the pit bottom. Confirmation samples from the pit side walls and other sampled locations will be collected if initial sampling and analysis indicated exceedances. The pit side walls and other sampled locations will be analyzed for only the exceedances noted in the initial sampling.

Soil Remediation Summary

☐ In Situ

☒ Ex Situ

 Bioremediation (or enhanced bioremediation)

 Yes Excavate and offsite disposal

_____ Chemical oxidation
_____ Air sparge / Soil vapor extraction
_____ Natural Attenuation
_____ Other _____

If Yes: Estimated Volume (Cubic Yards) _____ 108

Name of Licensed Disposal Facility or COGCC Facility ID # _____

No _____ Excavate and onsite remediation

_____ 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

No _____ 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 impacts are not expected at this time.

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 Final Closure

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:

Waste not beneficially reused onsite. Excavated soil was hauled offsite for disposal.

Volume of E&P Waste (solid) in cubic yards _____ 108

E&P waste (solid) description _____ Soil

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: RNI Disposal (Wonsit, Utah)

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

E&P waste (liquid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

REMEDATION COMPLETION REPORT

REMEDATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? Yes _____

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 COGCC 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.

The location will be reclaimed to the present grade of the location or to the approximate original contour of the landscape and consistent with the 1000-series Rule.

Seeding of the disturbed area will be performed in accordance with its intended use. The seed mix will be prescribed by the landowner. There are known noxious weeds in the immediate area of the disturbance.

Is the described reclamation complete? _____

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? _____

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. _____

Proposed date of completion of Reclamation. _____

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. _____

Actual Spill or Release date, or date of discovery. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 06/22/2021

Proposed site investigation commencement. 08/11/2021

Proposed completion of site investigation. 05/03/2022

REMEDIAL ACTION DATES

Proposed start date of Remediation. 04/21/2022

Proposed date of completion of Remediation. 05/02/2022

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

Please forward onto John Heil

This Supplemental Form 27 is being submitted to request closure of the Fork Unit 3-22-1-2 location and associated facilities ID's/well/pit.

Equipment from the site was removed during the fall of 2021. Initial field screening and sampling conducted on 8/11/2021 indicated that the wellhead, flowline risers, area where the production tank and separator was placed all satisfied COGCC Table 915-1 thresholds.

Samples collected via hand auger from the production pit at 5-feet below the bottom of the pit (~10 feet below pad surface) indicated hydrocarbons exceeded Table 915-1 and remediation was necessary.

Remediation of the production pit commenced on 4/21/22 by excavating the impacted soil via trackhoe and hauling the impacted soils to RNI/Dalbo disposal in Wonsit, UT. Soils were excavated approximately 12-feet where field screening results indicated soils were at or below COGCC thresholds and confirmation samples were collected from the bottom and side walls. Analysis consisted of constituents that exceeded in the initial sampling as outlined within the Initial Form 27. A total of 108 yards were excavated

Confirmation samples collected from the pit indicate soil concentrations comply with Table 915-1 with the exception to a SAR reading of 9.84 on the pit bottom. Locin is requesting an allowance to the SAR as the exceedance poses no environmental risk or concern to the nearby environment, nor will the exceedance interfere with revegetation with the concentrations being at 12 below ground surface.

Locin is requesting closure of the Fork Unit 3-22-1-2 site and permission to proceed with final reclamation.

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

Signed: Melanie Adams

Title: TCO Compliance Mgr.

Submit Date: 05/11/2022

Email: meladams@tcolandservices.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: John Heil

Date: 07/28/2022

Remediation Project Number: 18768

Condition of Approval

COA Type

Description

1 COA	Based on a review of the information provided, it appears that no further action is necessary at this time and COGCC approves the closure request. Should conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards, or, if groundwater is found to be significantly impacted, further investigation and/or remediation activities may be required at the site.
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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

403044611	FORM 27-SUPPLEMENTAL-SUBMITTED
403044627	DISPOSAL MANIFESTS

403044628	ANALYTICAL RESULTS
403044629	ANALYTICAL RESULTS
403044630	ANALYTICAL RESULTS
403044631	SOIL SAMPLE LOCATION MAP
403044632	ANALYTICAL RESULTS
403044646	PHOTO DOCUMENTATION
403044736	OTHER

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)