

State of Colorado Oil and Gas Conservation Commission

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401635776

Receive Date:

05/29/2018

Report taken by:

JOHN AXELSON

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: <u>BYRON OIL INDUSTRIES INC</u>	Operator No: <u>12400</u>	Phone Numbers Phone: <u>(970) 768-0950</u> Mobile: <u>(970) 768-0950</u>
Address: <u>154 CLARKSON EXECUTIVE PARK</u>		
City: <u>BALLWIN</u>	State: <u>MO</u> Zip: <u>63011</u>	
Contact Person: <u>paul legler</u>	Email: <u>paulleglerpumping@yahoo.com</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 10531 Initial Form 27 Document #: 401414213

PURPOSE INFORMATION

- | | |
|--|--|
| <input type="checkbox"/> 901.e. Sensitive Area Determination | <input type="checkbox"/> 909.c.(5), Rule 910.b.(4): Remediation of impacted ground water |
| <input checked="" 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 type="checkbox"/> Other _____ |

SITE INFORMATION

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

Facility Type: <u>PIT</u>	Facility ID: <u>104647</u>	API #: _____	County Name: <u>ADAMS</u>
Facility Name: <u>Price-Degenhart 1 Skim Pit</u>		Latitude: <u>39.830810</u>	Longitude: <u>-103.857291</u>
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: <u>SESE</u>	Sec: <u>34</u>	Twp: <u>2S</u>	Range: <u>58W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u>

SITE CONDITIONS

General soil type - USCS Classifications SC Most Sensitive Adjacent Land Use pasture

Is domestic water well within 1/4 mile? Yes 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

none

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	none	visual

INITIAL ACTION SUMMARY

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

soil samples

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):

under removed tanks and pit berm

Proposed Groundwater Sampling

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

wellhead

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 4

Number of soil samples exceeding 910-1 0

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

Approximate areal extent (square feet) 0

NA / ND

-- Highest concentration of TPH (mg/kg) 1277

-- Highest concentration of SAR 50.6

BTEX > 910-1 No

Vertical Extent > 910-1 (in feet) 0

Groundwater

Number of groundwater samples collected 1

Was extent of groundwater contaminated delineated? No

Depth to groundwater (below ground surface, in feet) 200'

Number of groundwater monitoring wells installed 0

Number of groundwater samples exceeding 910-1 1

-- Highest concentration of Benzene (µg/l) 19.6

-- Highest concentration of Toluene (µg/l) 12.2

-- Highest concentration of Ethylbenzene (µg/l) 0.5

-- Highest concentration of Xylene (µg/l) 1.7

NA Highest concentration of Methane (mg/l)

Surface Water

0 Number of surface water samples collected

0 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) 25

Volume of liquid waste (barrels) 270

☐ 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.

tanks have been removed

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.

soil from pit berm was used to fill skim pit.

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) _____ 0
_____ Name of Licensed Disposal Facility or COGCC Facility ID # _____ 4189
_____ 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.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Frequency: ☐ Quarterly ☐ Semi-Annually ☐ Annually ☐ Other _____

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

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 _____ 25

E&P waste (solid) description _____ soil and production water

COGCC Disposal Facility ID #, if applicable: _____ 4189

Non-COGCC Disposal Facility: _____

Volume of E&P Waste (liquid) in barrels _____ 270

E&P waste (liquid) description _____ production slurry

COGCC Disposal Facility ID #, if applicable: _____ 4189

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? No _____

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? No _____

Does Groundwater meet Table 910-1 standards? No _____

Is additional groundwater monitoring to be conducted? No _____

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.

haul soil to disposal if necessary

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 approve the seed mix? No _____

If NO, does the seed mix comply with local soil conservation district recommendations? No _____

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). 08/21/2017

Date of commencement of Site Investigation. 08/18/2017

Date of completion of Site Investigation. _____

REMEDIAL ACTION DATES

Date of commencement of Remediation. 08/21/2017

Date of completion of Remediation. _____

SITE RECLAMATION DATES

Date of commencement of Reclamation. _____

Date of completion of Reclamation. _____

OPERATOR COMMENT

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

Signed: paul legler

Title: pumper

Submit Date: 05/29/2018

Email: paulleglerpumping@yahoo.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 AXELSON

Date: 07/02/2018

Remediation Project Number: 10531

COA Type**Description**

	Sample ID "Pit Berm X" with hand written note "Skim Pit In-fill" had a SAR result of 50.6 which exceeds the Table 910-1 standard of 12. Remove a minimum of three feet of the skim pit fill and replace with at least three feet of clean fill. Provide documentation to COGCC of source of clean fill. Take pictures documenting the removal of the top three feet of fill and replacement with the clean fill. Provide required source documentation and pictures to COGCC in the supplemental Form 27 required by August 31, 2018. Provide all analytical laboratory reports for work accomplished under this COA.
	Lab results for soil samples identified as "Tank #2" and "Tank #3" contained Total Recoverable Petroleum Hydrocarbons at concentrations of 1277 mg/kg & 707 mg/kg respectively, which exceeds the Table 910-1 standard of 500 mg/kg. Operator is required to remove any remaining hydrocarbon contaminated soil in the area where the two samples were collected. After all of the material is removed, collect a sufficient number of confirmation soil samples to verify that all remaining soil in the area complies with Table 910-1 both horizontally & vertically. Contact COGCC EPS if guidance is needed regarding the number of samples. Remit a soil sample location diagram drawn to scale showing the specific sample locations including the depth below ground surface. Include gps coordinates of the sample locations and reference the previous sample locations on the diagram. Also include a table summarizing the analytical results in comparison to Table 910-1 standards. Based on previous sample results, it is only necessary to analyze soil samples for Total Recoverable Petroleum Hydrocarbons and Total Extractable Hydrocarbons - Diesel Range Organics. Also include disposal documentation for any additional oily waste removed from the area of the Tank #2 & #3 sample locations. Perform the required field work and provide a report with the required information to COGCC via supplemental Form 27 under this project by August 31, 2018. Provide all analytical laboratory reports for work accomplished under this COA.

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**

401635776	FORM 27-SUPPLEMENTAL-SUBMITTED
401651776	ANALYTICAL RESULTS
401651777	ANALYTICAL RESULTS
401651778	ANALYTICAL RESULTS
401651779	ANALYTICAL RESULTS
401651780	ANALYTICAL RESULTS
401654913	DISPOSAL MANIFESTS

Total Attach: 7 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)