FORM 27 Rev 5/22

State of Colorado Energy & Carbon Management Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109

Document Number:		
403910179		
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 INFORMATON

Address: 1099 18TH STREET SUITE 1500 City: DENVER State: CC Contact Person: Dan Peterson PROJECT, PURPOSI ROJECT INFORMATION	'	80202	Phone: (970) 730-7281 Mobile: ()
Contact Person: Dan Peterson PROJECT, PURPOSI	'		Mobile: ()
PROJECT, PURPOSI			
		Email: rbueuf27@	chevron.com
	F & SITE INFO	RMATION	
DATE OF THE STREET OF THE STRE			
	l Form 27 Documer	nt #: 200	0370331
URPOSE INFORMATION			
Rule 913.c.(1): Pit or Cuttings Trench closure.			
Rule 913.c.(2): Buried or partially buried vessel closure, which wil	II be by removal.		
Rule 913.c.(3): Remediation of Spill and Releases pursuant to Ru	ule 912.		
Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 90	05.e.		
Rule 913.c.(5): Closure of Centralized E&P Waste Management F	Facilities pursuant to I	Rule 907.h.	
X Rule 913.c.(6): Remediation of impacted Groundwater pursuant to	to Rule 915.e.(3).D, ar	nd the contaminant co	oncentrations in Table 915-1.
Rule 913.c.(7): Investigation and remediation of natural gas in soi	il or Groundwater.		
Rule 913.c.(8): When requested by the Director due to any potent	itial risk to soil, Ground	dwater, or surface wa	iter.
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	es		
acility Type: LAND APPLICATION SITE Facility ID: 425661 AP	PI #:	County Name	e: WELD
Facility Name: Miller South #1 Spread Field 425661	Latitude: 40.3719	 997 Lor	
** correct Lat/Long if need			ngitude:
QtrQtr: S/2NW Sec: 29 Twp: 5N	Range: 64w	Meridian: 6	Sensitive Area? Yes
ITE CONDITIONS			
	t Sensitive Adjacent L	and Use IRRIGATE	D
<u></u>	·		
domestic water well within 1/4 mile? Yes Is su	urface water within 1/4	mile? Yes	
groundwater less than 20 feet below ground surface? Yes			

SITE INVESTIGATION PLAN TYPE OF WASTE: EAP Waste						
ReP Waste	SITE INVESTIGATION PLAN					
ReP Waste	TYPE OF	WASTE:				
Oil Tank Bottoms Condensate Pigging Waste X 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 Yes GROUNDWATER 5000 square feet of chloride impact site assessment 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 containment pond in the northeast corner of the spreadfield was large enough to hold all of the water. A super sucker removed all of the water and trapported it in a Conqueet Water Disposal Well for proper disposal. See Form 19 (Document #2223930). 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): Soil samples were collected as part of this investigation? (Number, analyses, and locations of samples): Groundwater samples be collected as part of this investigation? (Number, analyses, and locations of samples): Groundwater samples were collected as part of this investigation? (Number, analyses, and locations of samples): Will groundwater samples were collected as part of this investigation? (Number, analyses, and locations of samples): Will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples): Will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples): Additional Investigative Actions		-	Other E&P Was	te	Non-E&P Waste	
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DESCRIPTION OF IMPACT Impacted? Impacted Media	X Drilling	Fluids	Rig Wash			
DESCRIPTION OF IMPACT Impacted? Impacted Media	Drill Cu	ttings	Spent Filters			
Impacted Impacted Media Extent of Impact How Determined			Pit Bottoms			
Impacted? Impacted Media			Other (as describ	ped by EPA)		
Impacted? Impacted Media	DESCBI	PTION OF IM	IPACT			
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Additional Investigative Actions						
<u>Actions</u>	will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples):					
<u>Actions</u>						
	Additional Investigative					
Additional alternative investigative actions described in attached Site Investigation Plan (summary):	<u>Actions</u>					

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Other Potential Receptors within 1/4 mile

Water well 1200 feet west, wetlands 50 feet north, and buildings 660 feet northeast

Soil NA / ND

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Number of soil samples exceeeding 915-1 0		Highest concentration of SAR 14.6
Was the areal and vertical extent of soil contamination delineated? Yes		BTEX > 915-1 No
Approximate areal extent (square feet) 0		Vertical Extent > 915-1 (in feet) 0
Groundwater		
Number of groundwater samples collected 24	ND	Highest concentration of Benzene (μg/l)
Was extent of groundwater contaminated delineated? Yes	ND	Highest concentration of Toluene (μg/l)
Depth to groundwater (below ground surface, in feet) 6	ND	Highest concentration of Ethylbenzene (μg/l)
Number of groundwater monitoring wells installed 24	ND	Highest concentration of Xylene (µg/l)
Number of groundwater samples exceeding 915-1 10	NA	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.		
THER 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?		
Was investigation derived waste (IDW) generated as part of this investigation? Volume of solid waste (cubic vards) Volume of	of liquid was	te (barrels)
Volume of solid waste (cubic yards) Volume of Solid waste (cubic yards)	of liquid was	te (barrels)
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	Natural Attenuation	Excavate and onsite remediation		
	Other	Land Treatment		
		Bioremediation (or enhanced bioremediation)		
		Chemical oxidation		
		Other		
Groun	dwater Remediation Summary			
No	Bioremediation (or enhanced bioremediation)			
No	Chemical oxidation			
No	Air sparge / Soil vapor extraction			
Yes	Natural Attenuation			
No	Other			
00011	NOWATER MONITORING			

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 monitoring wells were installed. Monitoring wells SB01R, SB04R, SB05R2, SB06R, SB07R, SB11, SB12, SB14, SB18, SB20R, and SB23 will be included in the monitoring plan. Annual groundwater sampling will be conducted, and groundwater samples will be analyzed for chloride.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING
Approved Reporting Schedule:
X Quarterly Semi-Annually Other
Request Alternative Reporting Schedule:
Semi-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: X 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.
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 (policy MWZZ 316714) 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: \$ 15000
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:
Values of FOR Wests (o. P. N. in a ship and to
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

Does Groundwater meet Table 915-1 standards? No	
Is additional groundwater monitoring to be conducted	d? Yes
Operator shall comply with the ECMC 1000-Series Recl	amation 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.
Not applicable.
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?
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.
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. 09/01/2015
Actual Spill or Release date, or date of discovery.
SITE INVESTIGATION DATES
Date of Initial Actions described in Site Investigation Plan (start date). 01/08/2013
Proposed site investigation commencement. 03/08/2012
Proposed completion of site investigation.
REMEDIAL ACTION DATES
Proposed start date of Remediation.
Proposed date of completion of Remediation. 12/31/2030
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:

workplan. Supp			or will complete the annual groundwater monitoring as outlined in this proposubmitted on a quarterly schedule to provide updates and progress of the		
I hereby certify	all statements mad	e in this form are	to the best of my knowledge true, correct, and complete.		
Signed: Ethan	Black		Title: Consultant		
Submit Date:	Submit Date: Email: ethanb@fremontenv.com				
	ormation provided heable orders and is l		cation for Site Investigation and Remediation Workplan complies v	vith ECMC	
ECMC Approve	d:		Date:		
Remediation F	Project Number:	7412	_		
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	, the approved Form 2 exed to the related Fa		ATTACHMENT LIST chments will be indexed to the Remediation Project file. Only the approve	ed Form 27	
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Date Run: 9/5/2024 Doc [#403910179]

Total: 0 comment(s)

OPERATOR COMMENT