District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS1926052330
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Mustang Resources, LLC	OGRID 373495
Contact Name Deb Lemon	Contact Telephone 720-550-7507 ext 105
Contact email dlemon@mustangresourcesllc.com	Incident # *(assigned by OCD)*
Contact mailing address	NCS1926052330

Location of Release Source

Latitude 36.35871 Longitude 108.193165
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Serendipity #3R	Site Type Gas Well
Date Release Discovered September 3, 2019	API# *(if applicable)* 30-045-30811

Unit Letter	Section	Township	Range	County
M	26	26N	13W	San Juan

Site Charecterization Accepted
Please submit Remediation Plan
No Later than 3/16/2020

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 160	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Mustang was informed on September 3rd at 10:35am that the produced water tank at this location overflowed. This was the result of an oversight with a water hauling contractor and not the result of a mechanical failure. Mustang estimates that approximately 160 BBLS of produced water was released.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume greater than 25 barrels of produced water
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Initial Response was given via email to: Mr. Cory Smith, OCD district office; Mr. Jim Griswold, OCD environmental bureau; Mr. Virgil Lucero, BLM district field office engineer.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Deborah Lemon Title: Regulatory Manager

Signature: Deborah Lemon Date: 9/5/2019

email: dlemon@mustangresourcesllc.com Telephone: 720-550-7507 Ext 105

OCD Only

Received by: Date: 9/17/19

State of New Mexico
Oil Conservation Division

Incident ID	#NCS1926052330
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	#NCS1926052330
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Deb Lemon Title: Regulatory Manager

Signature: Deborah Lemon Date: 11/1/2019

email: dlemon@mustangresourcesllc.com Telephone: 720-550-7507 ext 105

OCD Only

Received by: OCD Date: 2/14/2020

Site Charecterization Accepted
Please submit Remediation Plan
No Later than 3/16/2020

State of New Mexico
Oil Conservation Division

Incident ID	#NCS1926052330
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- [X] Detailed description of proposed remediation technique
- [X] Scaled sitemap with GPS coordinates showing delineation points
- [X] Estimated volume of material to be remediated
- [X] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [X] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Deborah Lemon Title: Regulatory Manager

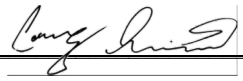
Signature: Deb Lemon Date: 2/26/2020

email: dlemon@mustangresourcesllc.com Telephone: 720-550-7507 ext 105

OCD Only

Received by: OCD Date: 2/27/2020

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [X] Deferral Approved

Signature:  Date: 5/13/2020

Deferral Approved, site must be reclaimed at P&A or when the area is no longer needed for the Exploration of Oil/Gas which ever comes first. Operator will Notify OCD when recliamation has been completed per 19.15.29.13 NMAC

Souder, Miller & Associates ♦ 401 W. Broadway ♦ Farmington, NM 87401
(505) 325-7535 ♦ (800) 519-0098 ♦ fax (505) 326-0045

October 25, 2019

#5127515-BG2

Mustang Resources, LLC
Mr. Don Johnson
1660 Lincoln St #1450
Denver, Colorado 80264

SUBJECT: Deferral Request for the Serendipity 3R Release (NCS1926052330), Farmington, New Mexico

Dear Mr. Johnson:

Souder, Miller & Associates (SMA) has prepared this Deferral Request that describes the delineation and proposed remediation for a release of liquids related to oil and gas production activities at the Serendipity 3R site. The site is in Unit M, Section 26, Township 26N, Range 13W, San Juan County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1, summarizes information regarding the release.

Table 1: Release Information and Closure Criteria			
Name	Serendipity 3R	Company	Mustang Resources LLC
API Number	30-045-30811	Location	36.453873 -108.193527
Incident Number	NCS1926052330		
Estimated Date of Release	September 3, 2019	Date Reported to NMOCD	September 3, 2019
Land Owner	Federal	Reported To	NMOCD, BLM
Source of Release	Produced water Tank		
Released Volume	160 bbls	Released Material	Produced Water
Recovered Volume	0 bbls	Net Release	160 bbls
NMOCD Closure Criteria	51-100 feet to groundwater		
SMA Response Dates	September 24, 2019 & October 2, 2019		

1.0 Background

On September 3, 2019, a release was discovered at the Serendipity 3R site due to the produced water tank overflowing. Initial response activities were conducted by Mustang, and included source elimination and site security activities. Figure 1 illustrates the vicinity and site location, Figures 2 and 3 illustrate the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Serendipity 3R is located approximately nineteen (19) miles south of Farmington, New Mexico on Federal (BLM) land at an elevation of approximately 6,234 feet above mean sea level (amsl).

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 10/23/2019). The nearest significant watercourse is an unnamed tributary, located approximately 730 feet to the southeast. Per Cory Smith, NMOCD Environmental Specialist, depth to groundwater for the Serendipity 3R was designated to be between 51-100 feet below grade surface (bgs) during an onsite visit conducted on September 24, 2019. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein and the onsite determination by NMOCD, the applicable NMOCD Closure Criteria for this site is for groundwater depth of between 51-100 feet bgs. Unless a deferral is approved by NMOCD per 19.15.29.12.B.(2), the site will be restored to meet the standards of Table I of 19.15.29.12 NMAC. Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization Activities and Findings

On September 24, 2019, SMA personnel arrived on site in response to the release associated with Serendipity 3R. SMA performed closure sampling activities by collecting soil samples around the release site within the berm containment. Closure sampling activities were witnessed by Cory Smith, NMOCD Environmental Specialist.

A total of five (5) sample locations (SC1-SC5) were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

As summarized in Table 3, results indicate that an area approximately 14 feet by 11 feet by 6 inches deep has been impacted (sample location SC2) by chlorides above the reclamation requirement but remain below the Closure Criteria. Locations for all samples are depicted on Figure 3.

At the request of Cory Smith, NMOCD Environmental Specialist, SMA returned to site on October 2, 2019 conduct chloride delineation via soil boring and sampling activities. A single soil boring, measuring from surface to four (4) bgs, was completed in the low spot within the sample location of SC2. A total of four (4) samples were collected, one from each foot of the boring, for laboratory analysis for total chloride using EPA Method 300.0.

Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

As summarized in Table 3, results from soil boring activities indicate that the impacted area of SC2 is limited to the surface. Locations for all samples are depicted on Figure 3.

4.0 Soil Remediation Work Plan

On October 31, 2019, three bags of gypsum were applied to the impacted area at the SC2 sampling location as in situ remediation. SMA will collect one composite closure sample from the top 6 inches of the area identified as SC2 for 300.0 chlorides. The closure composite sample will be submitted to Hall Environmental Analysis Laboratory. It will take approximately 5 business days for results. This work will be completed in September 2020. 72 hour notification will be given to OCD.

In accordance with 19.15.29.12.B(2), a deferral is being requested in the area identified as SC2 , As described above, the contamination has been delineated and does not cause an imminent risk to human health, the environment, or groundwater.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization, regulatory liaison, and preparing this remediation plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell
Project Scientist

Shawna Chubbuck
Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Surface Water Radius Map
Figure 3: Site and Sample Location Map

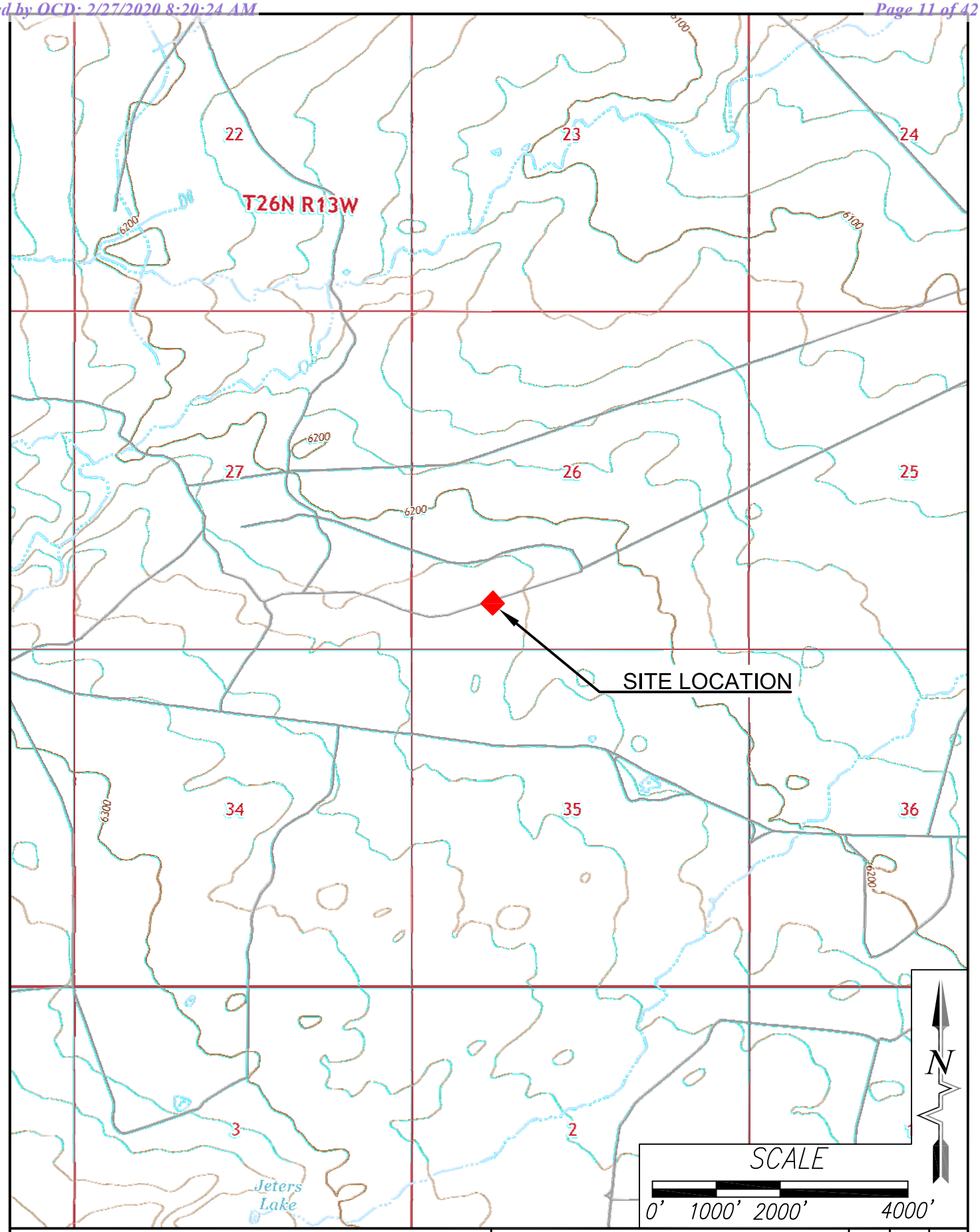
Tables:

Table 2: NMOCD Closure Criteria Justification
Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: Field Notes and Photo Log
Appendix D: Laboratory Analytical Reports

FIGURES



SMA
Engineering
Environmental
Surveying

Souder, Miller & Associates
401 West Broadway Avenue
Farmington, NM 87401-5907
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com
Serving the Southwest & Rocky Mountains

MUSTANG RESOURCES FARMINGTON, NEW MEXICO

VICINITY MAP
SERENDIPITY 3R
M-26-26N-13W
SAN JUAN COUNTY

Designed	Drawn	Checked
AM	DJB	SC

Date: October 2019
Scale: Horiz: 1" = 2000'
Vert: NA
Project No: 5127515
Figure 1

W:\5-Mustang Resources LLC (5127515)\BG2 - Serendipity #003R\CAD-Figures\5127965 Serendipity #003R.dwg, DJB, 10/24/2019 9:00 AM

Figure 2

Project No: 5127515

Scale: Horiz: 1"= 100'
Vert: N/A

Date: October 2019

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed AM
Drawn DJB
Checked SC

SOUDER, MILLER & ASSOCIATES
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Farmington, NM 87401-5907
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SMA
Engineering
Environmental
Surveying

MUSTANG RESOURCES — FARMINGTON, NEW MEXICO

SITE MAP
SERENDIPITY 3R
M-26-26N-13W

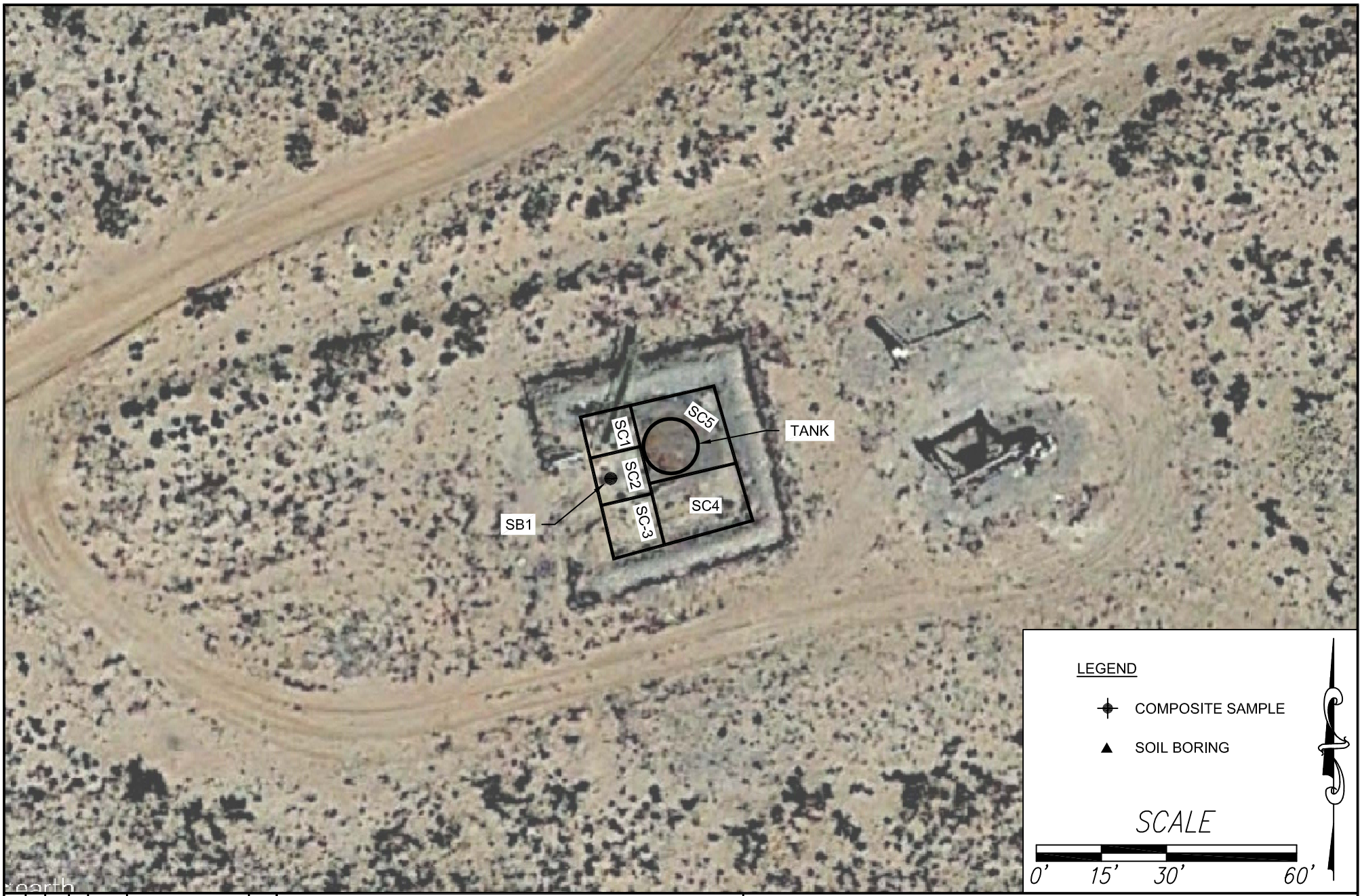

Figure 3

Project No: 5127515

Scale: Horiz: 1"= 30'
Vert: N/A

Date: October 2019

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed AM | Drawn DJB | Checked SC

SOUDER, MILLER & ASSOCIATES
SMA
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Environmental
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MUSTANG RESOURCES — FARMINGTON, NEW MEXICO

SAMPLE LOCATION MAP
SERENDIPITY 3R
M-26-26N-13W

TABLES

Table 2:
NMOCD Closure Criteria

Mustang Resources LLC
Serendipity 3R (NCS1926052330)

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	51-100	Cory Smith, NMOCD Environmental Specialist
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	>1/2 mile	OSE
Hortizontal Distance to Nearest Significant Watercourse (ft)	730	Figure 1

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		**Closure Criteria (units in mg/kg)**				
		Chloride *numerical limit or background, whichever is greater	**TPH**	**GRO + DRO**	**BTEX**	**Benzene**
< 50' BGS		600	100		50	10
51' to 100'	X	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	**yes or no**	**if yes, then**				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

Table 3:
Summary of Sample Results

Mustang Resources LLC
Serendipity 3R (NCS1926052330)

Sample ID	Sample Date	Depth (feet bgs)	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	**Total TPH** mg/Kg	Cl- mg/Kg
NMOCD Closure Criteria			50	10	1000			2500	10,000
SC1	9/16/2019	0.5	<0.212	<0.024	<4.7	<8.7	<43	<56.4	210
SC2	9/16/2019	0.5	<0.217	<0.024	<4.8	<9.7	<49	<63.5	670
SC3	9/16/2019	0.5	<0.207	<0.023	<4.6	<9.4	<47	<61	520
SC4	9/16/2019	0.5	<0.219	<0.024	<4.9	<9.7	<48	<62.6	360
SC5	9/16/2019	0.5	<0.222	<0.025	<4.9	<9.5	<47	<61.4	450
SB1	10/2/2019	1	--	--	--	--	--	--	390
		2	--	--	--	--	--	--	360
		3	--	--	--	--	--	--	310
		4	--	--	--	--	--	--	290

"--" = Not Analyzed

APPENDIX A
FORM C141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS1926052330
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Mustang Resources, LLC	OGRID 373495
Contact Name Deb Lemon	Contact Telephone 720-550-7507 ext 105
Contact email dlemon@mustangresourcesllc.com	Incident # *(assigned by OCD)*
Contact mailing address	NCS1926052330

Location of Release Source

Latitude 36.35871 Longitude 108.193165
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Serendipity #3R	Site Type Gas Well
Date Release Discovered September 3, 2019	API# *(if applicable)* 30-045-30811

Unit Letter	Section	Township	Range	County
M	26	26N	13W	San Juan

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 160	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Mustang was informed on September 3rd at 10:35am that the produced water tank at this location overflowed. This was the result of an oversight with a water hauling contractor and not the result of a mechanical failure. Mustang estimates that approximately 160 BBLS of produced water was released.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume greater than 25 barrels of produced water

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Initial Response was given via email to: Mr. Cory Smith, OCD district office; Mr. Jim Griswold, OCD environmental bureau; Mr. Virgil Lucero, BLM district field office engineer.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Deborah Lemon Title: Regulatory Manager

Signature: Deborah Lemon Date: 9/5/2019

email: dlemon@mustangresourcesllc.com Telephone: 720-550-7507 Ext 105

OCD Only

Received by: Date: 9/17/19

APPENDIX B
NMOSE WELLS REPORT

New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

PLSS Search:

Section(s): 26 **Township:** 26N **Range:** 13W

APPENDIX C
FIELD NOTES
PHOTO LOG

Field Screening Form

Location Name: Serindipity 3R

Date:

	Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened
9/24/19	SC1		6"	9:34				
	SC2		6"	9:37				
	SC3		6"	9:41				
	SC4		6"	9:45				
	SC5		6"	9:49				
10/2/19	SB1		1'	9:55				
	SB1		2'	10:03				
	SB1		3'	10:06				
	SB1		4'	10:10				

Notes: onsite 9:45 offsite 10:35

SMA

Cory Smith onsite to witness 9/24/19

Serendipity 3R

Photo 1: Sample area SC2.

Photo 2: Location of SB1 in sample area SC2.

APPENDIX D

LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 24, 2019

Ashley Maxwell

Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX: (505) 327-1496

RE: Serendipity 3R OrderNo.: 1909866

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/17/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1909866**
Date Reported: **9/24/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: SC1
Project: Serendipity 3R
Collection Date: 9/16/2019 9:34:00 AM
Lab ID: 1909866-001 **Matrix:** SOIL **Received Date:** 9/17/2019 8:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	210	60		mg/Kg	20	9/21/2019 11:25:29 PM	47637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	9/19/2019 9:41:51 AM	47548
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	9/19/2019 9:41:51 AM	47548
Surr: DNOP	96.6	70-130		%Rec	1	9/19/2019 9:41:51 AM	47548
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2019 2:03:58 PM	47534
Surr: BFB	103	77.4-118		%Rec	1	9/18/2019 2:03:58 PM	47534
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/18/2019 2:03:58 PM	47534
Toluene	ND	0.047		mg/Kg	1	9/18/2019 2:03:58 PM	47534
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2019 2:03:58 PM	47534
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2019 2:03:58 PM	47534
Surr: 4-Bromofluorobenzene	87.9	80-120		%Rec	1	9/18/2019 2:03:58 PM	47534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909866**
Date Reported: **9/24/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: SC2
Project: Serendipity 3R
Collection Date: 9/16/2019 9:37:00 AM
Lab ID: 1909866-002 **Matrix:** SOIL **Received Date:** 9/17/2019 8:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	670	59		mg/Kg	20	9/21/2019 11:37:54 PM	47637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/19/2019 10:03:58 AM	47548
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2019 10:03:58 AM	47548
Surr: DNOP	95.3	70-130		%Rec	1	9/19/2019 10:03:58 AM	47548
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/18/2019 3:12:22 PM	47534
Surr: BFB	100	77.4-118		%Rec	1	9/18/2019 3:12:22 PM	47534
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/18/2019 3:12:22 PM	47534
Toluene	ND	0.048		mg/Kg	1	9/18/2019 3:12:22 PM	47534
Ethylbenzene	ND	0.048		mg/Kg	1	9/18/2019 3:12:22 PM	47534
Xylenes, Total	ND	0.097		mg/Kg	1	9/18/2019 3:12:22 PM	47534
Surr: 4-Bromofluorobenzene	86.9	80-120		%Rec	1	9/18/2019 3:12:22 PM	47534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909866**
Date Reported: **9/24/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: SC3
Project: Serendipity 3R
Collection Date: 9/16/2019 9:41:00 AM
Lab ID: 1909866-003 **Matrix:** SOIL **Received Date:** 9/17/2019 8:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	520	60		mg/Kg	20	9/21/2019 11:50:19 PM	47637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/19/2019 10:26:12 AM	47548
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 10:26:12 AM	47548
Surr: DNOP	102	70-130		%Rec	1	9/19/2019 10:26:12 AM	47548
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/18/2019 3:35:08 PM	47534
Surr: BFB	100	77.4-118		%Rec	1	9/18/2019 3:35:08 PM	47534
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/18/2019 3:35:08 PM	47534
Toluene	ND	0.046		mg/Kg	1	9/18/2019 3:35:08 PM	47534
Ethylbenzene	ND	0.046		mg/Kg	1	9/18/2019 3:35:08 PM	47534
Xylenes, Total	ND	0.092		mg/Kg	1	9/18/2019 3:35:08 PM	47534
Surr: 4-Bromofluorobenzene	86.5	80-120		%Rec	1	9/18/2019 3:35:08 PM	47534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909866**
Date Reported: **9/24/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: SC4
Project: Serendipity 3R
Collection Date: 9/16/2019 9:45:00 AM
Lab ID: 1909866-004 **Matrix:** SOIL **Received Date:** 9/17/2019 8:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	360	60		mg/Kg	20	9/22/2019 12:02:43 AM	47637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/19/2019 8:08:41 PM	47548
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2019 8:08:41 PM	47548
Surr: DNOP	98.8	70-130		%Rec	1	9/19/2019 8:08:41 PM	47548
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2019 5:29:05 PM	47534
Surr: BFB	98.5	77.4-118		%Rec	1	9/18/2019 5:29:05 PM	47534
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/18/2019 5:29:05 PM	47534
Toluene	ND	0.049		mg/Kg	1	9/18/2019 5:29:05 PM	47534
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2019 5:29:05 PM	47534
Xylenes, Total	ND	0.097		mg/Kg	1	9/18/2019 5:29:05 PM	47534
Surr: 4-Bromofluorobenzene	85.5	80-120		%Rec	1	9/18/2019 5:29:05 PM	47534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909866**
Date Reported: **9/24/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: SC5
Project: Serendipity 3R
Collection Date: 9/16/2019 9:49:00 AM
Lab ID: 1909866-005 **Matrix:** SOIL **Received Date:** 9/17/2019 8:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	450	59		mg/Kg	20	9/22/2019 12:15:08 AM	47637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/19/2019 8:31:02 PM	47548
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 8:31:02 PM	47548
Surr: DNOP	97.7	70-130		%Rec	1	9/19/2019 8:31:02 PM	47548
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2019 5:51:50 PM	47534
Surr: BFB	99.1	77.4-118		%Rec	1	9/18/2019 5:51:50 PM	47534
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/18/2019 5:51:50 PM	47534
Toluene	ND	0.049		mg/Kg	1	9/18/2019 5:51:50 PM	47534
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2019 5:51:50 PM	47534
Xylenes, Total	ND	0.099		mg/Kg	1	9/18/2019 5:51:50 PM	47534
Surr: 4-Bromofluorobenzene	85.6	80-120		%Rec	1	9/18/2019 5:51:50 PM	47534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909866**
24-Sep-19

Client: Souder, Miller and Associates
Project: Serendipity 3R

Sample ID: **MB-47637** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **47637** RunNo: **63102**
Prep Date: **9/21/2019** Analysis Date: **9/21/2019** SeqNo: **2152517** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-47637** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **47637** RunNo: **63102**
Prep Date: **9/21/2019** Analysis Date: **9/21/2019** SeqNo: **2152518** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909866**

24-Sep-19

Client: Souder, Miller and Associates

Project: Serendipity 3R

Sample ID: **LCS-47548** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **47548** RunNo: **63032**

Prep Date: **9/18/2019** Analysis Date: **9/19/2019** SeqNo: **2149625** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	63.9	124			
Surr: DNOP	5.4		5.000		109	70	130			

Sample ID: **MB-47548** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **47548** RunNo: **63032**

Prep Date: **9/18/2019** Analysis Date: **9/19/2019** SeqNo: **2149626** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909866**

24-Sep-19

Client: Souder, Miller and Associates

Project: Serendipity 3R

Sample ID: **MB-47534**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **47534**	RunNo: **63006**
Prep Date: **9/17/2019**	Analysis Date: **9/18/2019**	SeqNo: **2148848** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.4	77.4	118			

Sample ID: **LCS-47534**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **47534**	RunNo: **63006**
Prep Date: **9/17/2019**	Analysis Date: **9/18/2019**	SeqNo: **2148849** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.1	80	120			
Surr: BFB	1100		1000		114	77.4	118			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909866**

24-Sep-19

Client: Souder, Miller and Associates

Project: Serendipity 3R

Sample ID: **MB-47534**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **47534**	RunNo: **63006**
Prep Date: **9/17/2019**	Analysis Date: **9/18/2019**	SeqNo: **2148876** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	80	120			

Sample ID: **LCS-47534**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **47534**	RunNo: **63006**
Prep Date: **9/17/2019**	Analysis Date: **9/18/2019**	SeqNo: **2148877** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.0	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	80	120			

Sample ID: **1909866-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC1**	Batch ID: **47534**	RunNo: **63006**
Prep Date: **9/17/2019**	Analysis Date: **9/18/2019**	SeqNo: **2148884** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9643	0	95.2	76	123			
Toluene	0.97	0.048	0.9643	0	100	80.3	127			
Ethylbenzene	1.0	0.048	0.9643	0	103	80.2	131			
Xylenes, Total	2.8	0.096	2.893	0	98.3	78	133			
Surr: 4-Bromofluorobenzene	0.89		0.9643		92.0	80	120			

Sample ID: **1909866-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC1**	Batch ID: **47534**	RunNo: **63006**
Prep Date: **9/17/2019**	Analysis Date: **9/18/2019**	SeqNo: **2148885** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9634	0	93.9	76	123	1.45	20	
Toluene	0.95	0.048	0.9634	0	99.1	80.3	127	1.25	20	
Ethylbenzene	0.98	0.048	0.9634	0	102	80.2	131	1.56	20	
Xylenes, Total	2.8	0.096	2.890	0	97.5	78	133	0.882	20	
Surr: 4-Bromofluorobenzene	0.89		0.9634		92.7	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1909866 RcptNo: 1

Received By: Leah Baca 9/17/2019 8:32:00 AM Leah Baca

Completed By: Anne Thorne 9/17/2019 10:26:40 AM Anne Thorne

Reviewed By: YG 9/17/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 9/17/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway
Farmington, NM 87401

Phone #: 505 325 7535

email or Fax#: ashley.maxwell

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
~~☐~~ 09/17/19
☑ Standard ☐ Rush_____

Project Name:
Serendipity 3R

Project #:

Project Manager:
Ashley Maxwell

Sampler: AM

On Ice: ☑ Yes ☐ No

# of Coolers: (1)

Cooler Temp(including CF): 3.8 - CF 0.1 = 3.7C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1909866	(BTEX) MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides 300.0
9/16/19	9:34	soil	SC1	4oz	cool	001	X	X									X
	9:37		SC2			002											
	9:41		SC3			003											
	9:45		SC4			004											
	9:49		SC5			005											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/16/19	1708				9/16/19	1705
9/16/19	1810	Christa Weeks		Courier	9/17/19	~~0900~~ 0832

Remarks:
CC Don Johnson
djohnson@mustangresourcesllc.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

AT 09/17/19

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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October 10, 2019

Ashley Maxwell

Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Serendipity 3R OrderNo.: 1910275

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/3/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1910275**
Date Reported: **10/10/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates **Lab Order:** 1910275
Project: Serendipity 3R

Lab ID: 1910275-001 **Collection Date:** 10/2/2019 9:55:00 AM
Client Sample ID: SB1-1' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	390	60		mg/Kg	20	10/8/2019 2:35:46 PM	48002

Lab ID: 1910275-002 **Collection Date:** 10/2/2019 10:03:00 AM
Client Sample ID: SB1-2' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	360	60		mg/Kg	20	10/8/2019 2:48:10 PM	48002

Lab ID: 1910275-003 **Collection Date:** 10/2/2019 10:06:00 AM
Client Sample ID: SB1-3' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	310	60		mg/Kg	20	10/8/2019 3:00:35 PM	48002

Lab ID: 1910275-004 **Collection Date:** 10/2/2019 10:10:00 AM
Client Sample ID: SB1-4' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	290	60		mg/Kg	20	10/8/2019 3:13:00 PM	48002

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910275**

10-Oct-19

Client: Souder, Miller and Associates

Project: Serendipity 3R

Sample ID: **MB-48002**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **48002**	RunNo: **63489**							
Prep Date: **10/8/2019**	Analysis Date: **10/8/2019**	SeqNo: **2170451**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-48002**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **48002**	RunNo: **63489**							
Prep Date: **10/8/2019**	Analysis Date: **10/8/2019**	SeqNo: **2170452**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Sample Log-In Check List

Client Name: **SMA-FARM** Work Order Number: **1910275** RcptNo: **1**

Received By: **Erin Melendrez** **10/3/2019 8:20:00 AM**

Completed By: **Erin Melendrez** **10/3/2019 5:57:24 PM**

Reviewed By: 10-4-19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: DAD 10/4/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway
Farmington, NM 87401

Phone #: 505 3257535

email or Fax#: Ashley.maxwell

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
Serendipity 3R

Project #:

Project Manager:
Ashley maxwell

Sampler: RW

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.9-0.5(CF)=3.4°C

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Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1910275	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides 300.00				Air Bubbles (Y or N)
10/2/19	9:55	Soil	SB1 - 1'	903		-001												X				
	10:03		SB1 - 2'			-002												X				
	10:06		SB1 - 3'			-003												X				
	10:10		SB1 - 4'			-004												X				

Date	Time	Relinquished by:	Received by:	Date	Time
10/2/19	1602		Christa Waeler	10/2/19	1602
10/2/19	1811	Christa Waeler	courier	10/3/19	0820

Remarks:

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