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	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Robert Dunaway Title: Senior Environmental Engineer

Signature: R. Dunaway Date: 8/19/22

email: rhdunaway@eprod.com Telephone: 575-628-6802

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
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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	NAPP2214277394
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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Printed Name: Robert Dunaway Title: Senior Environmental Engineer

Signature: R. Dunaway Date: 8/19/22

email: rhdunaway@eprod.com Telephone: 575-628-6802

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

OCD Only

Received by: Robert Hamlet Date: 11/23/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 11/23/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-8801

August 18, 2022

#5E31002-BG12

NMOCD District 2
811 S. First St.
Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the 003 to 006 (NAPP2214277394) Gathering Pipeline, Eddy County, New Mexico

1.0 Executive Summary

On behalf of Enterprise Field Services LLC (Enterprise), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a natural gas and condensate release related to oil and gas gathering activities at the 003 to 006 (NAPP2214277394). The release site is located in Unit N, Section 29, Township 18S, Range 29E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

This report demonstrates that the release area has been remediated to meet the standards of Table I of 19.15.29.12 New Mexico Administrative Code (NMAC). The information provided in this report is intended to fulfill final New Mexico Oil Conservation Division (NMOCD) closure requirements.

The gas portion of this release constitutes venting that occurred during an emergency or malfunction, as authorized by NMOCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A.

SMA recommends no further action and requests that the releases associated with the 003 to 006 Gathering Pipeline Release (NAPP2214277394).

Table 1: Release Information and Closure Criteria			
Name	003 to 006	Company	Enterprise Field Services LLC
API Number	N/A	Location	32.713094, -104.098325
Incident Number	NAPP2214277394	Date Reported to NMOCD	May 22, 2022
Land Owner	COG Operating LLC	Reported To	NMOCD District II
Source of Release	Leak on a gathering pipeline		
Nature and Volume of Release	<1.0 bbl Condensate 581 Mcf Natural Gas	Volume Recovered	0 bbl Condensate 0 Mcf Natural Gas
NMOCD Closure Criteria	<50 feet		
SMA Response Dates	August 2, 5, and 10, 2022		

2.0 Background

On May 22, 2022, a natural gas and condensate release was discovered at the 003 to 006 release site. Initial response activities were conducted by Enterprise, and included source elimination and site security, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The initial C-141 form is included in Appendix A.

3.0 Site Information and Closure Criteria

The 003 to 006 Gathering Pipeline Release site is located approximately 20 miles northeast of Carlsbad, New Mexico on privately-owned land at an elevation of approximately 3,452 feet above mean sea level (amsl).

Depth to Groundwater

A search of the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System did not yielded any results within ½-mile of the site (Appendix B). Therefore, depth to groundwater is considered to be less than 50 feet below grade surface (bgs) for Closure Criteria determinations.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the OSE NMWRRS and USGS National Water Information System. Registered wells in the vicinity are shown on Figure 1 and available water well data is included in Appendix B.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed ephemeral drainage, located approximately 530 feet to the east.

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does not lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

4.0 Release Characterization and Remediation Activities

On August 2, 2022, and continuing August 5, 2022, SMA personnel provided excavation guidance for the remedial excavation. On August 10, 2022, SMA personnel performed closure confirmation sampling. A copy of the confirmation sampling notification is included in Appendix A.

Selected soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. Field notes are included in Appendix C.

A total of 11 composite confirmation samples were collected from the excavation for laboratory analysis for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8260B; and total petroleum hydrocarbons (TPH) as motor, diesel and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Excavation samples were composed of 5-point composites collected every 200 square feet or less in accordance with the sampling protocol included in Appendix D.

The final remediation excavation was an irregular shape and at the maximum measured approximately 44 feet by 22 feet with depths ranging from 3 to 10 feet.

Excavation extents and closure confirmation sample locations are depicted in Figure 3. A photo log is included in Appendix C. Confirmation laboratory results are summarized in Table 3. Laboratory reports are included in Appendix E.

5.0 Recommendations

As demonstrated in Table 3, all closure confirmation samples meet NMOCD Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Excavated soils were removed and replaced with clean backfill material to return the surface to previous contours. All excavated soil was transported and disposed of at Lea Land LLC, Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number NAPP2214277394.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. 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 Heather Woods at (505) 716-2787.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Georgeann Goodman
Field Technician

Reviewed by:

Heather M. Woods, P.G.
Project Geoscientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 5/25/2022

USGS National Water Information System: Web Interface online water well database
https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format=html; accessed 5/25/2022

ATTACHMENTS:

Figures:

Figure 1: Site Map
Figure 2: Surface Water Protection Map
Figure 3: Site and Sample Location Map

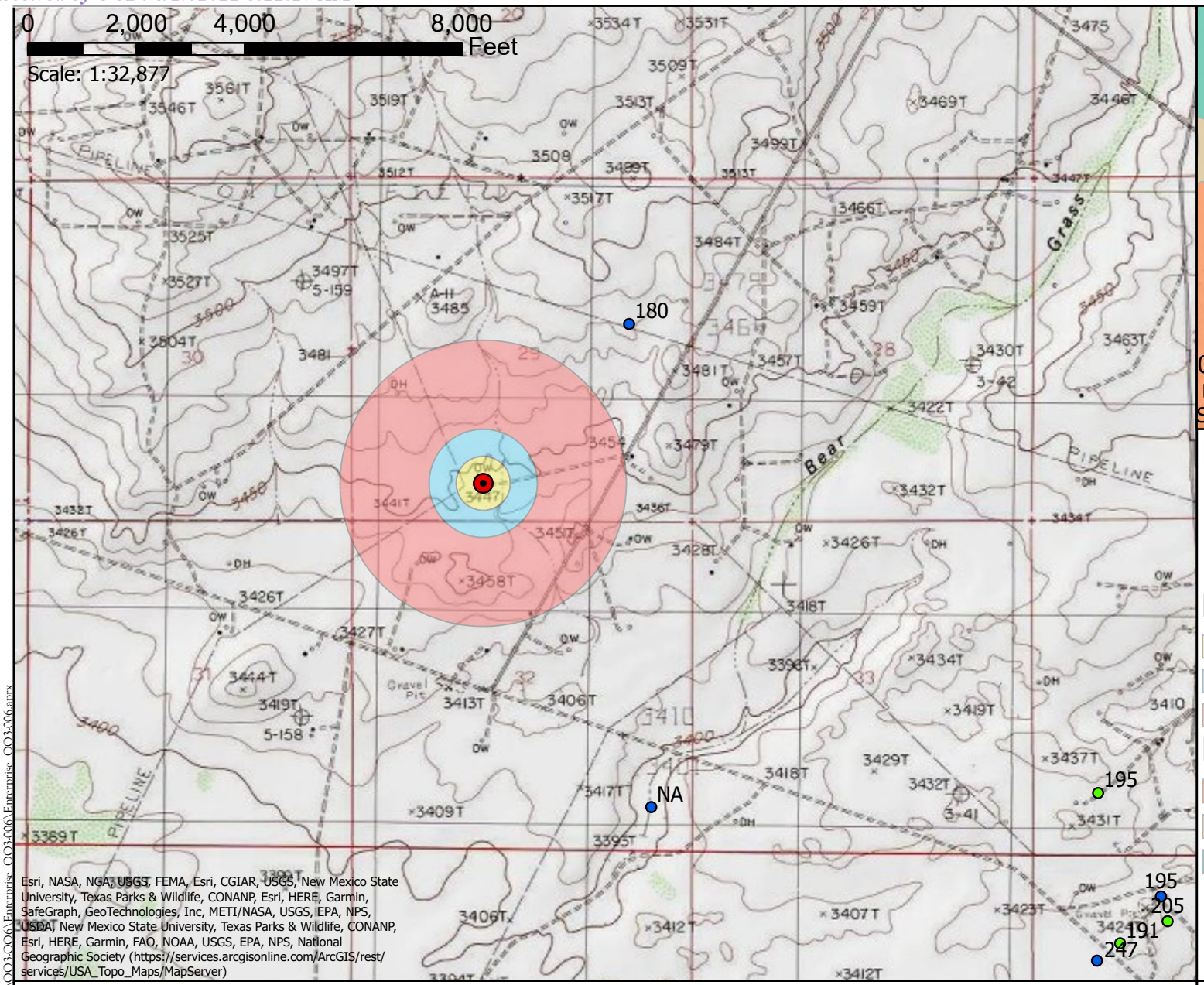
Tables:

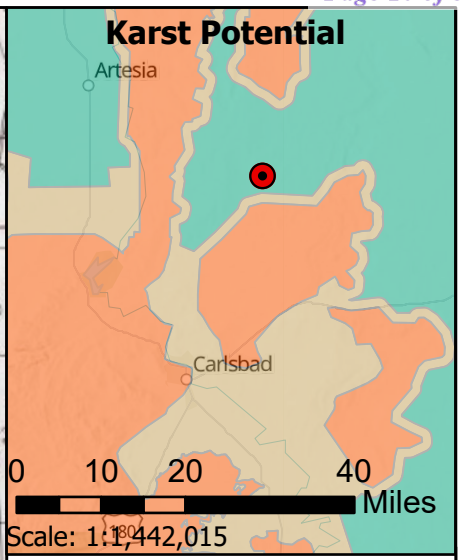
Table 2: NMOCD Closure Criteria Determination
Table 3: Summary of Laboratory Analytical Results

Appendices:

Appendix A: Form C-141 and Correspondence
Appendix B: Water Well Data
Appendix C: Field Notes and Photo Log
Appendix D: Sampling Protocol
Appendix E: Laboratory Analytical Report

FIGURES





Legend

- Point of Release
- USGS GW Wells (depth in ft)
- OSE GW Wells (depth in ft)

Buffer Distance

- 500 feet
- 1000 feet
- 0.5 mile

Karst Potential

- High
- Medium
- Low

N

Point of Release Coordinates:
-104.098325W 32.713094N

Topographic Site Map
OO3 to OO6 - Enterprise Field Services LLC
UL: N S: 29 T: 18S R: 29E, Eddy County, New Mexico

Figure 1

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Sarahmay Schlea
Date 8/18/2022
Checked
Approved

SMA
Souder, Miller & Associates
Engineering • Environmental
Geomatics

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Carlsbad, New Mexico 88221
(575) 689-7040
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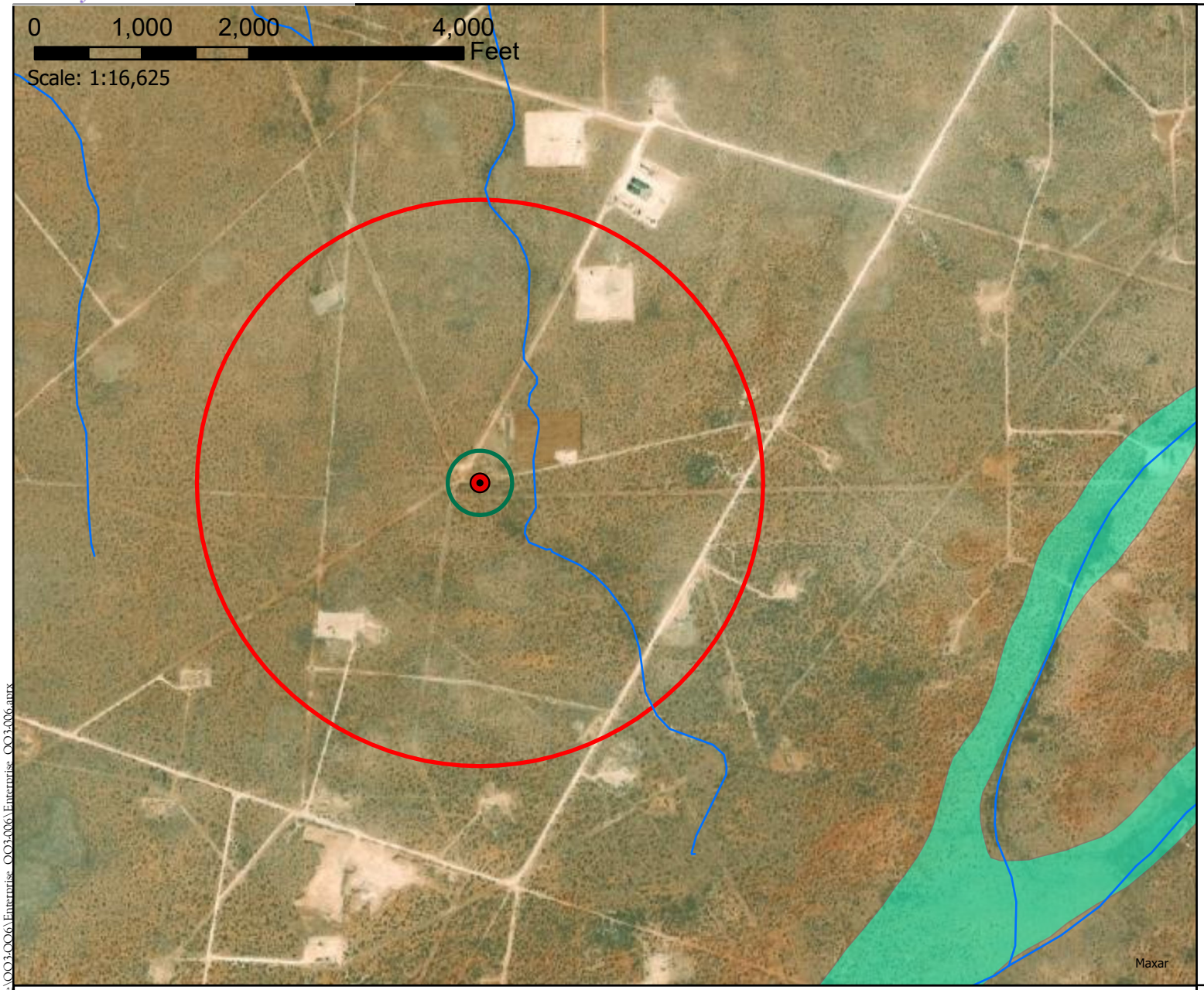
Date Saved: 8/18/2022



Legend

- Point of Release
- Streams/Canals/Flowlines
- FEMA Flood Zones
- 0.5 Mile Radius
- 300 Foot Radius

N

Point of Release Coordinates:
-104.098325W 32.713094N

Aerial Site Map
OO3 to OO6 - Enterprise Field Services LLC
UL: N S: 29 T: 18S R: 29E, Eddy County, New Mexico

Figure 2

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Date Saved: 8/10/2022

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Sarahmay Schlea
Date 8/16/2022
Checked
Approved

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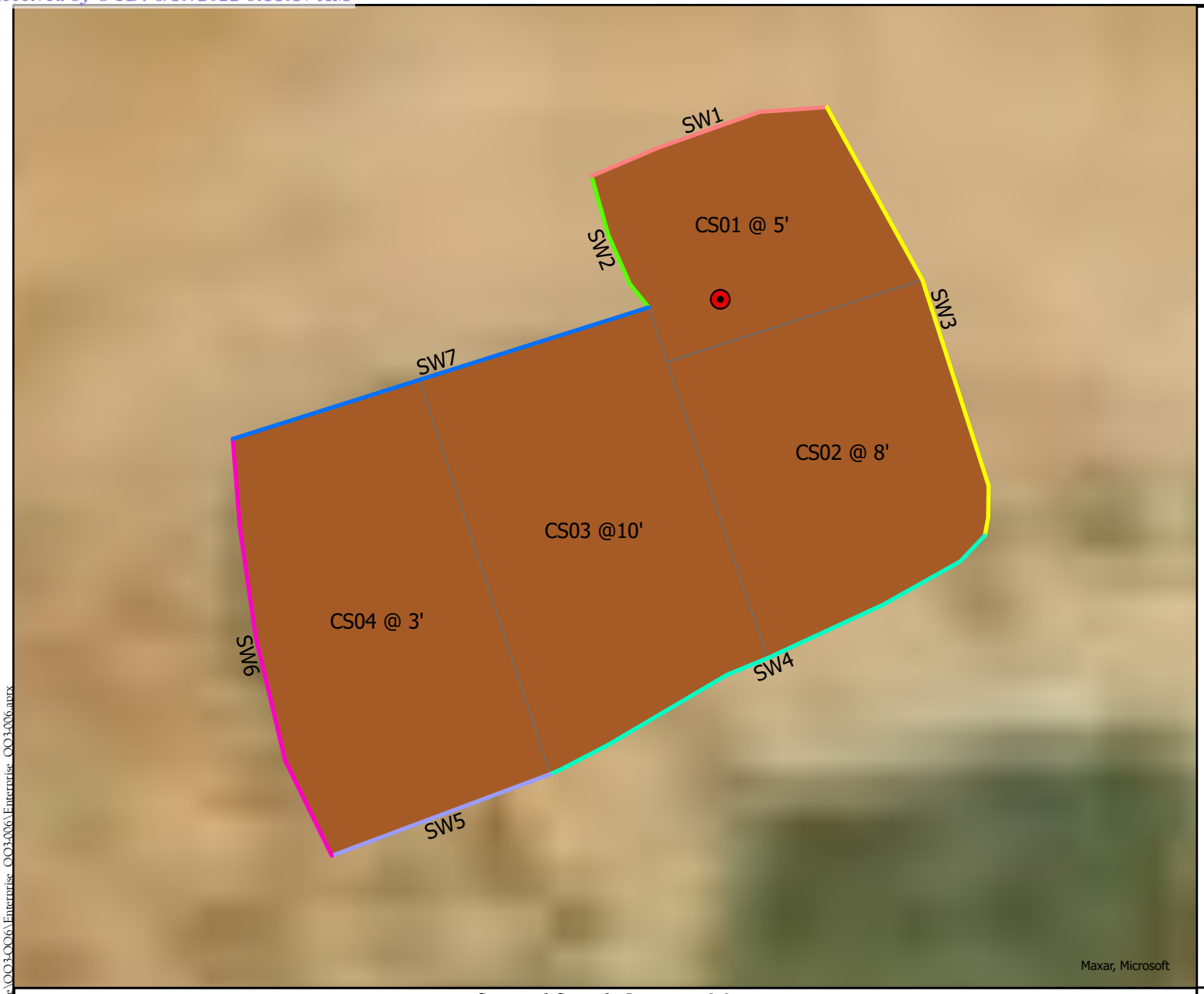

Legend

- Point of Release
- Confirmation Samples

Sidewall Samples

- SW1
- SW2
- SW3
- SW4
- SW5
- SW6
- SW7

0 3 6 12

Feet

Scale: 1:80

N

Point of Release Coordinates:
-104.098325W 32.713094N

Site and Sample Location Map
OO3 to OO6 - Enterprise Field Services LLC
UL: N S: 29 T: 18S R: 29E, Eddy County, New Mexico

Figure 3

C:\Users\ks\Desktop\GIS\Enterprise\OO3.OO6\Enterprise_OO3.006.aprx
Date Saved: 8/18/2022

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Sarahmay Schlea
Date 8/18/2022
Checked
Approved

SMA
Souder, Miller & Associates
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Carlsbad, New Mexico 88221
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TABLES

Table 2:
NMOCD Closure Criteria

Enterprise Field Services
OO3 to OO6 Pipeline
nAPP2214277394

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	No Data	NMOSE and USGS Water Well Data
Hortizontal Distance From All Water Sources Within 1/2 Mile	>0.5mi	NMOSE and USGS Water Well Data
Hortizontal Distance to Nearest Significant Watercourse	530 ft	USGS 7.5-minute Quadrangle Map

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	**X**	**600**	**100**		**50**	**10**
51' to 100'		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 Laboratory Analytical Results

Enterprise Field Services
OO3 to OO6
napp2214277394

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D				Method 300.0
			BTEX	Benzene	GRO	DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria			**50**	**10**	**--**	**--**	**--**	**100**	**600**
CS01	8/10/2022	5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**93.1**
CS02	8/10/2022	8	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**106**
CS03	8/10/2022	10	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**165**
CS04	8/10/2022	3	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
SW1	8/10/2022	0 to 5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
SW2	8/10/2022	0 to 5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**21.7**
SW3	8/10/2022	0 to 8	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**111**
SW4	8/10/2022	0 to 10	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**41.9**
SW5	8/10/2022	0 to 3	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**34.2**
SW6	8/10/2022	0 to 3	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
SW7	8/10/2022	0 to 10	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**78.0**

Notes: NMOCD - New Mexico Oil Conservation Division
BTEX - total benzene, toluene, ethylbenzene, and xylenes
TPH - total petroleum hydrocarbon
GRO - gasoline range organics
DRO - diesel range organics
MRO - motor oil range organics
bgs - below grade surface
mg/kg - milligram per kilogram
"--" - not applicable or not analyzed

APPENDIX A

FORM C141 AND CORRESPONDENCE

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	NAPP2214277394
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhdunaway@eprod.com	Incident # *(assigned by OCD)*	nAPP2214277394
Contact mailing address	PO Box 4324, Houston, TX 77210		

Location of Release Source

Latitude 32.713094 Longitude -104.098325
(NAD 83 in decimal degrees to 5 decimal places)

Site Name OO3 to OO6	Site Type Gathering Pipeline
Date Release Discovered 05/23/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
N	29	18S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* COG Operating LLC)

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)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls) < 1 bbl	Volume Recovered (bbls) -0-
☒ Natural Gas	Volume Released (Mcf) 581 mscf	Volume Recovered (Mcf) -0-
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Found a leak on a gathering pipeline, cause is to be determined.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2214277394
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? Gas release in excess of 500 mscf

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Yes. Robert Dunaway. OCD Website. 5/22/2022. OCD Website NOR.

Initial Response

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

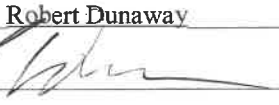
☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been 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: Robert Dunaway Title: Senior Environmental Engineer

Signature:  Date: 5/23/22

email: rhdunaway@eprod.com Telephone: 575-628-6802

OCD Only

Received by: Jocelyn Harimon Date: 05/23/2022

Facility : OE 16 Battery

Enter data in shaded fields to calculate gas volumes

Hours of leak	1	
Diameter of hole (inches)	0.025	
Line Pressure at Leak	818	Hourly Basi
Volume of Gas Leaked	**0.52**	0.52

Calculations:

Volume of Gas Leaked (MSCF) = Diameter*Diameter*(Upstream Gauge Pressu

****Reference: Pipeline Rules of Thumb Handbook, 3rd Edition, McAllister. Page**

Footage of Pipe blowndown	25,344	
Initial line pressure	818	
Diameter of Pipe (inches)	8	
Volume of Gas Blown Down	**580.63639**	MSCF

Calculations:

Volume of Gas Blown Down (MSCF) = Volume at pipeline conditions (ft3)*(Gau

/(1000 scf/mscf)*Standard Pressure (14.7psi)*Temperature(F)*Z Factor

Volume at pipeline conditions (scf) = Diameter/12 (ft)*Diameter/12 (ft)*PI/4*Len

****Reference: Gas Pipeline Hydraulics, Menson (2005) Pages 132-134. Assuming**

Total Gas Loss	**581.16 MSCF**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 109266
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	5/23/2022

Heather Woods

From: Heather Woods
Sent: Monday, August 8, 2022 10:46 AM
To: Enviro, OCD, EMNRD
Cc: rhdunaway@eprod.com; Sarahmay Schlea; Georgeann Goodman
Subject: Confirmation Sampling Notification - Enterprise OO3 to OO6 (nAPP2214277394)

Good Afternoon,

Souder, Miller & Associates will be on location Wednesday, August 10th,2022, at 9:00am to conduct confirmation sampling at the Enterprise OO3 to OO6 release location (nAPP2214277394) located at 32.713094, -104.098325.

Many Thanks,
Heather

Heather Woods, P.G.
Project Geoscientist

Personal Registrations: UT Professional Geologist
Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX PST CAPM (CS-0000051), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)

Souder, Miller & Associates
Engineering ♦ Environmental ♦ Geomatics
401 West Broadway
Farmington, NM 87401
(505) 716-2787 (mobile)
(505) 325-7535 (office)
www.soudermiller.com

APPENDIX B

WATER WELL DATA

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 01618 POD1	CP	ED	3	4	2	29	18S	29E	585120	3620554	240	180	60

Average Depth to Water: **180 feet**

Minimum Depth: **180 feet**

Maximum Depth: **180 feet**

Record Count: 1

PLSS Search:

Section(s): 19, 20, 21, 30, 29, 28, 31, 32, 33 **Township:** 18S **Range:** 29E

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO 2016 SEP 12 PM 2:09

	OSE FILE NUMBER(S): CP 01618
WELL OWNER NAME(S): KEY LIVESTOCK, LLC	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 1012 E 2ND ST	CITY: ROSWELL STATE: NM

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	43	10.16	N
	LONGITUDE	104	5	30.08	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1058	DON KUEHN III	KEYS DRILLING & PUMP SERVICE INC.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
08/23/16	08/26/16	240	240	180

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 180

DRILLING FLUID: ☐ AIR ☑ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	200	8-3/4"	PVC	SPLINE	4-1/2"	SCH40	
200	240	8-3/4"	PVC	SPLINE	4-1/2"	SCH40	.030

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	8-3/4"	CEMENT		HAND
20	240	8-3/4"	VEALMORE PEA GRAVEL		HAND

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1618	POD NUMBER	1	TRN NUMBER	591553
LOCATION	18S 29E Sec29	342			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	20	20	TOP SOIL, GRAVEL & SAND	☐ Y ■ N	
20	40	20	COURSE SAND & GRAVEL	☐ Y ■ N	
40	60	20	BROWN CLAY	☐ Y ■ N	
60	140	80	RED BED	☐ Y ■ N	
140	200	60	SANDSTONE	■ Y ☐ N	
200	240	40	GRAVEL	■ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ■ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 2

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

DON KUEHN III

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

GARY KEY — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

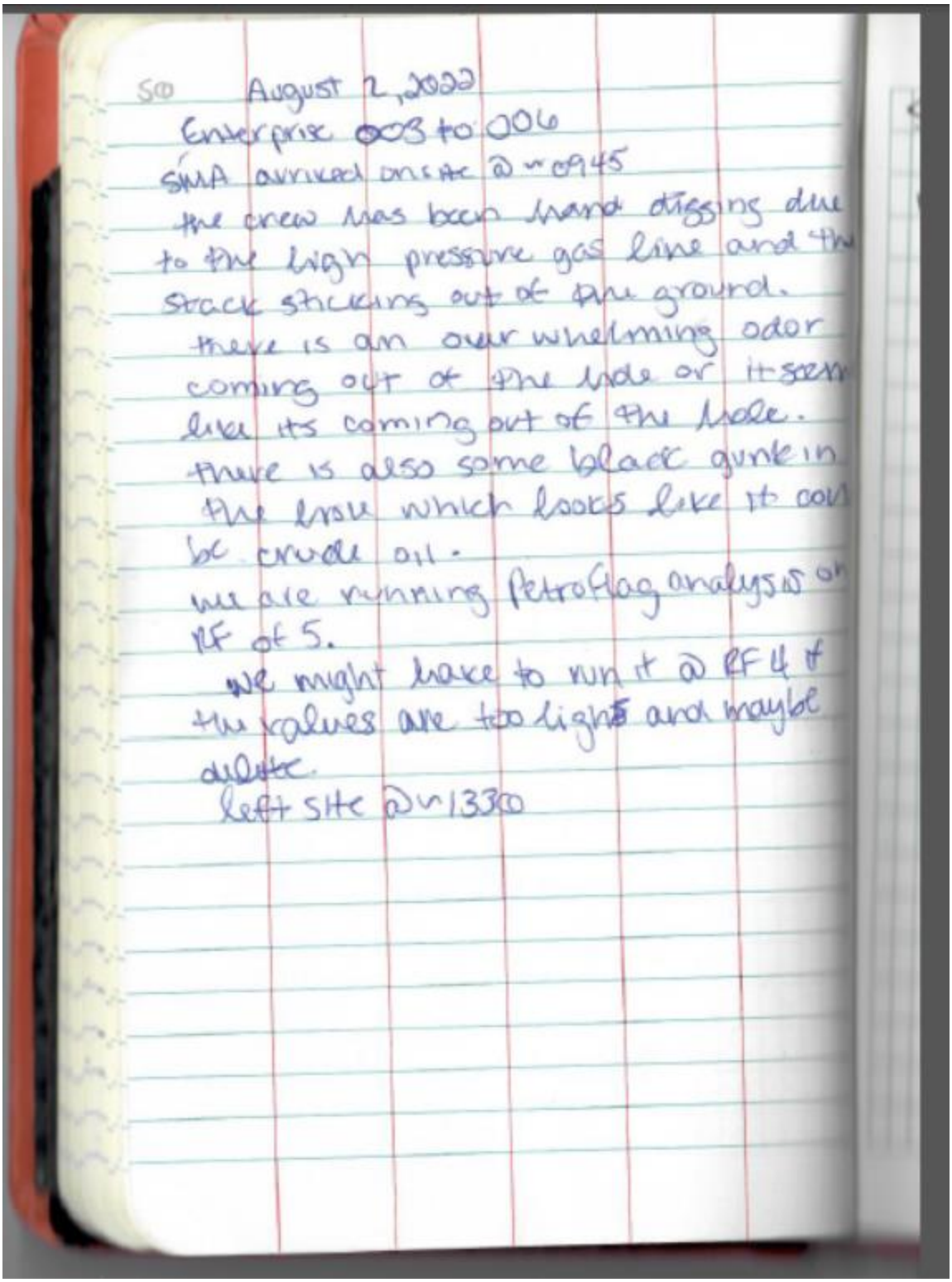
09-13-16 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1618	POD NUMBER		TRN NUMBER	591553
LOCATION	18S 29E Sec 29 342				PAGE 2 OF 2

APPENDIX C

FIELD NOTES AND PHOTOLOG



SO August 2, 2022
Enterprise 003 to 006
SMA arrived on site @ ~0945
the crew has been hand digging due to the high pressure gas line and the stack sticking out of the ground.
there is an over whelming odor coming out of the hole or it seem like its coming out of the hole.
there is also some black gunk in the hole which looks like it could be crude oil.
we are running petroflag analysis on RF of 5.
we might have to run it @ RF 4 if the values are too high and maybe dilute.
left site @ ~1330

Field Screening

Location Name: Enterprise 003 to 006 **Date:** August 5, 2022

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
Base @ ~6'				750	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Base @ 8'				53.1	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
North Base @ 4'				120	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
North Base @ 5'				73.2	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Northwest wall				64.4	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Northeast wall				17.2	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Base - south @ 8'				832	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Base - south @ 9'				250	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Base - south @ 10				80.2	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
South Base @ 3				7.2				

SMA Field Screening

Location Name: Enterprise 003 to 006 **Date:** 8/10/22

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
SW1	0911				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW2	0915				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CSD1	0923				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CS02	0929				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CS03	0938				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW4	0940				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW3	0944				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW7	0946				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW6	0948				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	

Field Screening

Location Name: Enterprise 003 to 006 **Date:** 8/10/22

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
SW5	0949				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CS04	0951				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	

APPENDIX D

SAMPLING PROTOCOL

Souder, Miller & Associates ♦ 201 S. Halagueno ♦ Carlsbad, NM 88220
(575) 689-8801

Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis. A total of 11 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8260B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX E

LABORATORY ANALYTICAL REPORT

Report to:

Ashley Maxwell

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: 003-006

Work Order: E208068

Job Number: 97057-0001

Received: 8/12/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/15/22

Date Reported: 8/15/22

Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: 003-006
Workorder: E208068
Date Received: 8/12/2022 10:15:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/12/2022 10:15:00AM, under the Project Name: 003-006.

The analytical test results summarized in this report with the Project Name: 003-006 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	003-006	**Reported:**
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	08/15/22 15:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS01	E208068-01A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
CS02	E208068-02A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
CS03	E208068-03A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
CS04	E208068-04A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW1	E208068-05A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW2	E208068-06A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW3	E208068-07A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW4	E208068-08A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW5	E208068-09A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW6	E208068-10A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.
SW7	E208068-11A	Soil	08/10/22	08/12/22	Glass Jar, 2 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

CS01

E208068-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*63.8 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**93.1**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

CS02

E208068-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*72.1 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**106**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

CS03

E208068-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*85.2 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**165**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

CS04

E208068-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*75.4 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	ND	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW1

E208068-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*96.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*96.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*82.1 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	ND	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW2

E208068-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*77.9 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**21.7**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW3

E208068-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*96.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*96.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*90.2 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**111**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW4

E208068-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*96.7 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*91.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*97.3 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*96.7 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*91.8 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*97.3 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*83.8 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**41.9**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW5

E208068-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*96.5 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*98.7 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*96.5 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*98.7 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*81.1 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**34.2**	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW6

E208068-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*95.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*95.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*97.1 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	ND	20.0	1	08/12/22	08/12/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

SW7

E208068-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Benzene	ND	0.0250	1	08/12/22	08/12/22	
Ethylbenzene	ND	0.0250	1	08/12/22	08/12/22	
Toluene	ND	0.0250	1	08/12/22	08/12/22	
o-Xylene	ND	0.0250	1	08/12/22	08/12/22	
p,m-Xylene	ND	0.0500	1	08/12/22	08/12/22	
Total Xylenes	ND	0.0250	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*96.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2233075
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/22	08/12/22	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*08/12/22*	*08/12/22*	
Surrogate: Toluene-d8		*96.9 %*	*70-130*	*08/12/22*	*08/12/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2233073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/22	08/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/22	08/12/22	
Surrogate: n-Nonane		*65.1 %*	*50-200*	*08/12/22*	*08/12/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2233070
Chloride	**78.0**	20.0	1	08/12/22	08/12/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	**Reported:**
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2233075-BLK1)									Prepared: 08/12/22 Analyzed: 08/12/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.492*		*0.500*		*98.4*	*70-130*			
LCS (2233075-BS1)									Prepared: 08/12/22 Analyzed: 08/12/22
Benzene	2.61	0.0250	2.50		104	70-130			
Ethylbenzene	2.73	0.0250	2.50		109	70-130			
Toluene	2.56	0.0250	2.50		102	70-130			
o-Xylene	2.80	0.0250	2.50		112	70-130			
p,m-Xylene	5.53	0.0500	5.00		111	70-130			
Total Xylenes	8.33	0.0250	7.50		111	70-130			
Surrogate: Bromofluorobenzene	*0.513*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.485*		*0.500*		*97.0*	*70-130*			
Surrogate: Toluene-d8	*0.494*		*0.500*		*98.8*	*70-130*			
LCS Dup (2233075-BSD1)									Prepared: 08/12/22 Analyzed: 08/12/22
Benzene	2.36	0.0250	2.50		94.5	70-130	9.80	23	
Ethylbenzene	2.49	0.0250	2.50		99.5	70-130	9.38	27	
Toluene	2.36	0.0250	2.50		94.4	70-130	8.07	24	
o-Xylene	2.59	0.0250	2.50		104	70-130	7.85	27	
p,m-Xylene	5.07	0.0500	5.00		101	70-130	8.72	27	
Total Xylenes	7.66	0.0250	7.50		102	70-130	8.42	27	
Surrogate: Bromofluorobenzene	*0.519*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*100*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	**Reported:**
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2233075-BLK1)									Prepared: 08/12/22 Analyzed: 08/12/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.492*		*0.500*		*98.4*	*70-130*			
LCS (2233075-BS2)									Prepared: 08/12/22 Analyzed: 08/12/22
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.6*	*70-130*			
Surrogate: Toluene-d8	*0.498*		*0.500*		*99.6*	*70-130*			
LCS Dup (2233075-BSD2)									Prepared: 08/12/22 Analyzed: 08/12/22
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.1	70-130	2.69	20	
Surrogate: Bromofluorobenzene	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.5*	*70-130*			
Surrogate: Toluene-d8	*0.493*		*0.500*		*98.5*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	**Reported:**
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2233073-BLK1)									Prepared: 08/12/22 Analyzed: 08/12/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.6*		*50.0*		*87.2*	*50-200*			
LCS (2233073-BS1)									Prepared: 08/12/22 Analyzed: 08/12/22
Diesel Range Organics (C10-C28)	233	25.0	250		93.0	38-132			
Surrogate: n-Nonane	*36.6*		*50.0*		*73.3*	*50-200*			
Matrix Spike (2233073-MS1)				**Source: E208066-03**					Prepared: 08/12/22 Analyzed: 08/12/22
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132			
Surrogate: n-Nonane	*42.2*		*50.0*		*84.4*	*50-200*			
Matrix Spike Dup (2233073-MSD1)				**Source: E208066-03**					Prepared: 08/12/22 Analyzed: 08/12/22
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	2.38	20	
Surrogate: n-Nonane	*40.5*		*50.0*		*81.0*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	003-006	**Reported:**
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/15/2022 3:58:40PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2233070-BLK1)									Prepared: 08/12/22 Analyzed: 08/12/22
Chloride	ND	20.0							
LCS (2233070-BS1)									Prepared: 08/12/22 Analyzed: 08/12/22
Chloride	239	20.0	250		95.8	90-110			
LCS Dup (2233070-BSD1)									Prepared: 08/12/22 Analyzed: 08/12/22
Chloride	240	20.0	250		96.2	90-110	0.451	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	003-006	
201 S Halagueno St.	Project Number:	97057-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	08/15/22 15:58

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

97057-000 SAME DAY

Client:	Souder Miller + Associates
Project:	003-006
Project Manager:	Heather Woods
Address:	201 S Halagueno St
City, State, Zip	Carlsbad, NM 88220
Phone:	
Email:	
Report due by:	

Bill To

Attention:	Enterprise
Address:	
City, State, Zip	
Phone:	
Email:	

PO # 325484

Lab Use Only

Lab WO#	Job Number
PE2080682	

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - Tx			Remarks
0923	8/10/22	Soil	1	CS01	1									X				
0929	8/10/22	Soil	1	CS02	2									X				
0938	8/10/22	Soil	1	CS03	3									X				
0951	8/10/22	Soil	1	CS04	4									X				
0911	8/10/22	Soil	1	SW1	5									X				
0915	8/10/22	Soil	1	SW2	6									X				
0944	8/10/22	Soil	1	SW3	7									X				
0940	8/10/22	Soil	1	SW4	8									X				
0949	8/10/22	Soil	1	SW5	9									X				
0948	8/10/22	Soil	1	SW6	10									X				

Additional Instructions: please send report to Heather Woods, Sarahmay Schlea & Georgeann Goodman

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Sarahmay Schlea

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/10/22	1630		8-11-22	11:30
(Relinquished by: (Signature)	8-11-22	4:15		8/12/22	10:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Project Information

Chain of Custody

SAMEDAY

Client: Souder Miller & Associates
Project: 003-006
Project Manager: Heathur Woods
Address: 2001 S Halagueno 87
City, State, Zip Carlsbad, NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Enterprise
Address:
City, State, Zip
Phone:
Email:
PO # 325484

Lab Use Only
Lab WO# E208008
Job Number 97057-0001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
0946	8/10/22	Soil	1	SW7	11									X				

Additional Instructions: please send report to Heathur Woods, Sarahmay Schlea & Georgeann Goodman

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Sarahmay Schlea

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/10/22	1630		8/11/22	1130
	8-11-22	4:15		8/12/22	10:15

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 8/12/2022 12:05:16PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/12/22 10:15	Work Order ID:	E208068
Phone:	(505) 325-7535	Date Logged In:	08/12/22 08:56	Logged In By:	Caitlin Christian
Email:	ashley.maxwell@soudermiller.com	Due Date:	08/12/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 135761
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2214277394 OO3 TO OO6, thank you. This closure is approved.	11/23/2022