

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	

Release Notification

Responsible Party

Responsible Party Epic Energy LLC	OGRID 372834
Contact Name Shawna Martinez	Contact Telephone 505-327-4892
Contact email Shawna@walsheng.net	Incident # (assigned by OCD) nAPP2136340518
Contact mailing address 332 Road 3100, Aztec, NM 87410	

Location of Release Source

Latitude **36.4870796** Longitude **-108.1201935**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cowsaround SWD #1	Site Type SWD
Date Release Discovered 12/28/2021	API# (if applicable) 30-045-30096

Unit Letter	Section	Township	Range	County
K	16	26N	12W	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) 40	Volume Recovered (bbls) 10
	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: **On Tuesday December 29, 2021 @3:32pm, Epic Energy was notified of produced water release by a third party (Enterprise). Epic Energy experienced a line malfunction that resulted in a 40 BBL produced water release.**

State of New Mexico
Oil Conservation Division

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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?

<50 (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.

State of New Mexico
Oil Conservation Division

Incident ID	
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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.

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: Shawna Martinez Title: Regulatory Specialist

Signature: *Shawna Martinez* Date: 11/17/2022

email: Shawna@walsheng.net Telephone: 505-327-4892

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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Application ID	

Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ 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: Shawna Martinez Title: Regulatory Specialist

Signature: Shawna Martinez Date: 11/17/2022

email: Shawna@walsheng.net Telephone: 505-327-4892

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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Closure

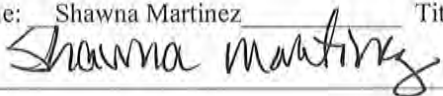
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: Shawna Martinez Title: Regulatory Specialist

Signature:  Date: 11/17/2022

email: Shawna@walsheng.net Telephone: 505-327-4892

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: 12/08/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

REMEDIATION SUMMARY

On Tuesday, December 29, 2021 @ 3:30 pm, Epic Energy was notified of a produced water released by a third party (Enterprise). Epic Energy experienced a line malfunction that resulted in a 40 BBL produced water release.

The release resulted in the produced water leaving the facility and traveling onto Enterprise Chaco Plant land. Epic Energy immediately mobilized a backhoe to remediate the impacted areas onsite. Approximately 25 yds of standing fluid and contaminated soil were transported to Envirotech Landfarm. (C138 – Appendix A)

No injuries and/or illnesses/fire were reported, nor did the produced water enter any watercourses or tributaries.

On January 17, 2022, Epic Energy conducted a final confirmation sample. The sampling event consisted of sampling the impacted area in (5) 200 sq ft sections. (Map A) The sampling **did not meet** sampling requirements per 19.15.29.12D(1c) for SB1 (8015 DRO, 8015 ORO), SB2 (Chloride), SB3 (Chloride) and SB5 (8015DRO, 8015ORO). *On February 11, 2022, Epic Energy further remediate the areas above the Regulatory standards which consist of digging approximately 8 yds and hauling of the impacted soil to NMOCD approved Envirotech Landfarm.* (C138 -Appendix B)

On April 28, 2022, Epic Energy conducted a final confirmation sample. The sampling event consisted of sampling the impacted area in (5) 100 sq ft sections. (See Map B) The sampling **did not meet** sampling requirements per 19.15.29.12D(1c) for SB1 (Chloride), SB2 (Chloride), and SB4 (Chloride). *On May 24, 2022, Epic Energy further remediate the areas above the Regulatory standards which consist of digging approximately 12 yards and hauling of the impacted soil to NMOCD approved Envirotech Landfarm.* (Envirotech Bill of Lading – Appendix C)

On May 26, 2022, Epic Energy conducted a final confirmation sample. The sampling event consisted of sampling the impacted area in (3) 100 sq ft sections. (Picture 1) The sampling **did not meet** sampling requirements per 19.15.29.12D(1c) for SB2 (Chloride). *On June 07, 2022, Epic Energy further remediate the areas above the Regulatory standards which consist of digging approximately 12 yards and hauling of the impacted soil to NMOCD approved Envirotech Landfarm.* (Envirotech Bill of Lading – Appendix D)

On June 14, 2022, Epic Energy conducted a final confirmation sample. (Picture 2) The sampling **did meet** sampling requirements per 19.15.29.12D(1c) for SB1.

On November 8, 2022, Epic Energy conducted a final confirmation sample. (Picture 3, 4, 5) The sampling event consisted of two (2) 5pt. composite samples of the 126' length along the N-S fence line on Enterprise side (west side of fence) (Map C) The sampling did meet sampling requirements per 19.15.29.12D(1c) for SB1 and SB2. (Field Coordinates)

Inches	Decimal conversion
1/8"	0.00125
1/4"	0.025
1/2"	0.05
3/4"	0.075
1"	0.083333
2"	0.1666
3"	0.25
4"	0.333
5"	0.4166
6"	0.5
7"	0.58
8"	0.666
9"	0.75
10"	0.833
11"	0.9166

Cubic Feet Calculations:

Length (feet)

Width (feet)

Depth (feet) (see conversions)

Fill in Bold Black Cells

29
6
0.5

174 sqft

87 Cuft.

Release Calculated 6,353.736 Total Bbls

Factors:

Sand

Gravel

Clay

3.357
3.597
1

292.059 Total Gallons

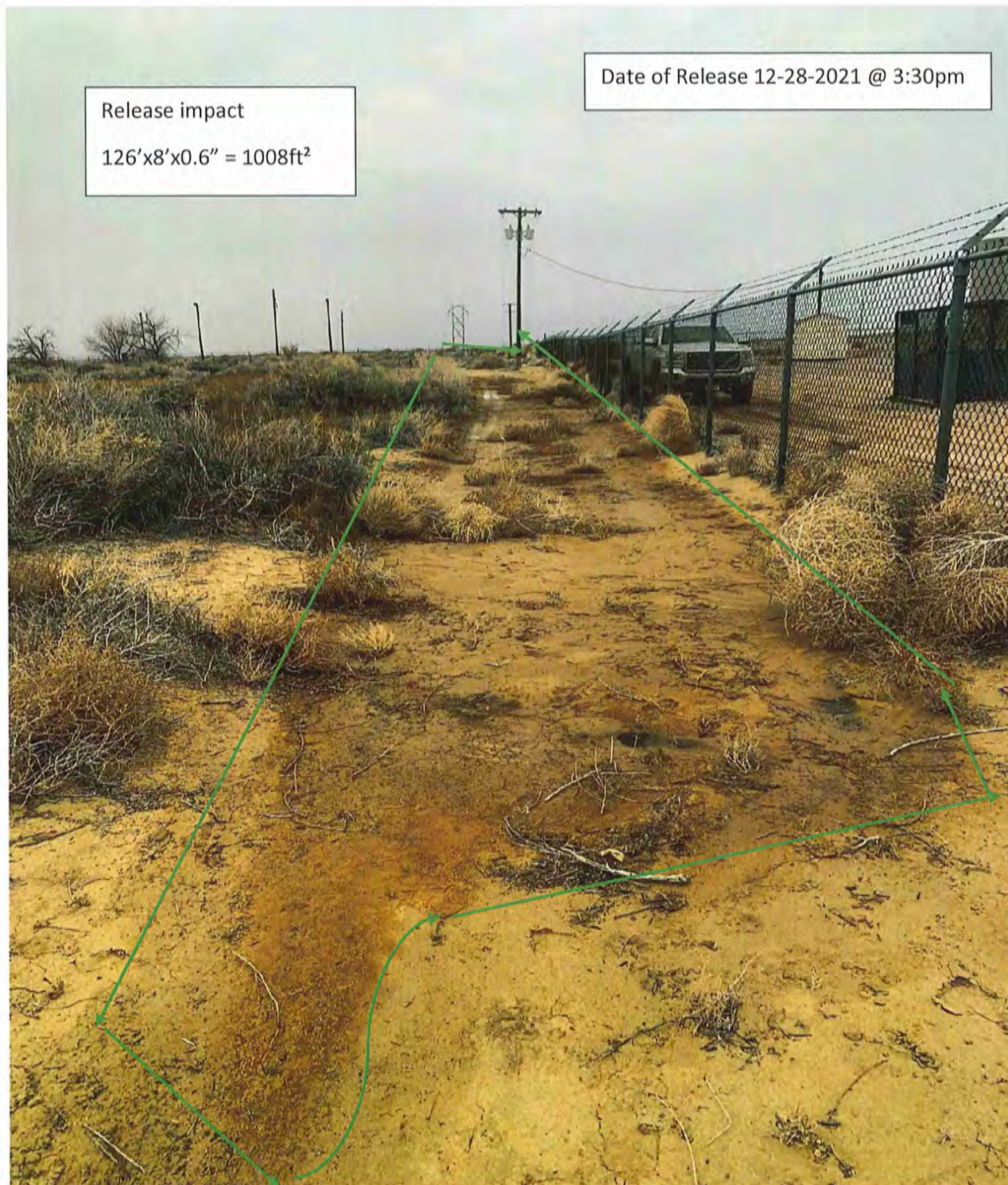
INPUT FACTOR HERE: 3.357

	Footages	Totals:	
Multiple footages:	126x8x0.5	40.284	1008 sq ft
	29x6x0.5	6.95	174 sq ft
Total for Multiple Footages:		47.234	1082 sq ft

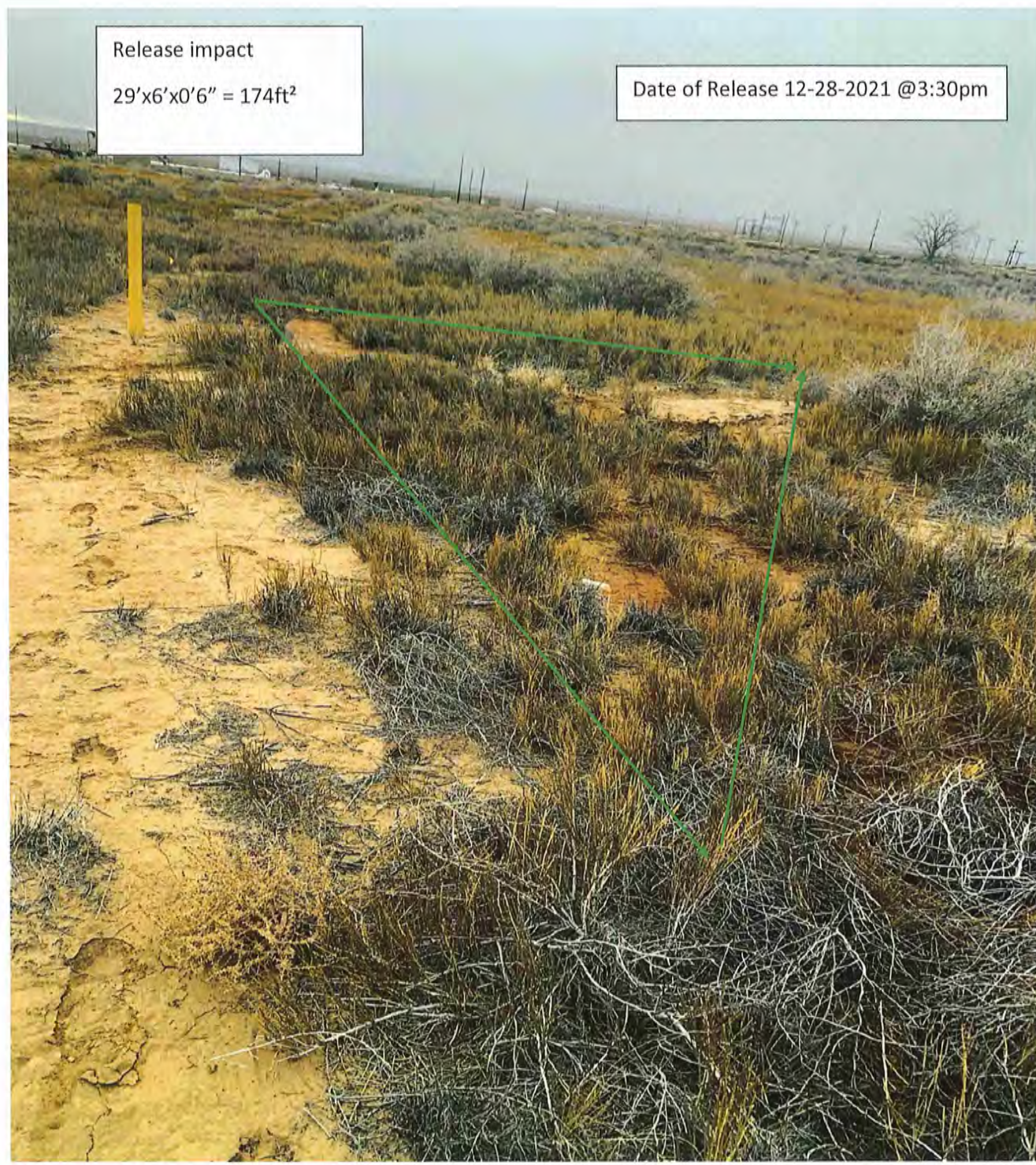
* Red Cells contain formulas to auto calculate

Location Name:	COWSAROUND SWD #1
Location Pad (if needed):	N/A
Date of Release:	12/29/2021
API:	30-045-30096
Sec - Township-Range:	K-16-T26N-R12W
Source of Incident:	Hole in pipeline
Cause of incident:	corrosion
Type of Fluid:	Produced Water
Entered a wash?:	No
Amount of fluid:	47.234
Photos if Available	Yes sent via email.

COWSAROUND SWD # 1 30-045-30096

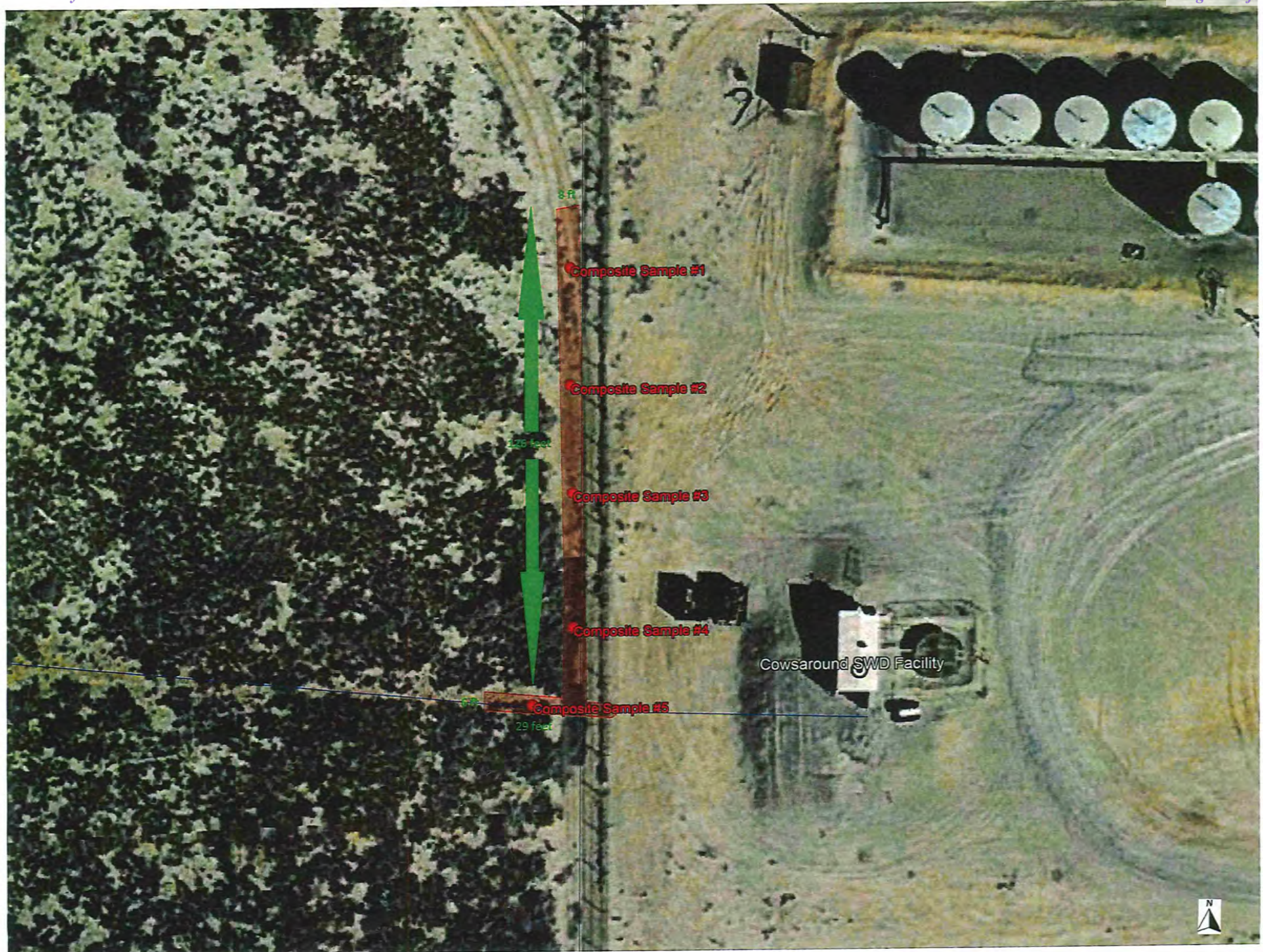


COWSAROUND SWD # 1 30-045-30096



Release impact
29'x6'x0'6" = 174ft²

Date of Release 12-28-2021 @3:30pm



Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

SAMPLING

SAMPLING REQUIREMENTS

19.15.2912D

D. Closure requirements. The responsible party must take the following action for any major or minor release containing liquids.

(1) The responsible party must test the remediated areas for contamination with representative five-point composite samples from the walls and base, and individual grab samples from any wet or discolored areas. The samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC or constituents from other applicable remediation standards.

(a) The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling. If the division district office does not respond to the notice within the two business days, the responsible party may proceed with final sampling. The responsible party may request a variance from this requirement upon a showing of good cause as determined by the division.

(b) The responsible party may submit a composite and grab sample plan for the division's review and approval separately or with the remediation plan.

(c) Alternately, without division approval, the responsible party may elect to perform a composite and grab sample plan of the remediated area where each composite sample is not representative of more than 200 square feet.

(2) If all composite and grab sample concentrations are less than or equal to the parameters listed in Table I of 19.15.29.12 NMAC or any conditions of approval, then the responsible party may proceed to backfill any excavated areas.

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
> 100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

*Or other test methods approved by the division.

**Numerical limits or natural background level, whichever is greater.

***This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

Cowsaround SWD #1
 Produced Water Release
 Incident# nAPP2136340518
 Date -12/28/21

**Summary of Lab Analysis
 Results in mg/kg**

Date Sampled	Time	Sample ID	Sample Depth (feet)	8021 BTEX	Benzene	8015 GRO	8015 DRO	8015 ORO	Chloride
NMOCD Guidelines			≤50 feet	50 mg/kg	10 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg
01/17/2022	8:07 am	SB1	Surface	ND	ND	ND	165 mg/kg	407 mg/kg	362 mg/kg
01/17/2022	8:13 am	SB2	Surface	ND	ND	ND	ND	ND	933 mg/kg
01/17/2022	8:20 am	SB3	Surface	ND	ND	ND	25.4 mg/kg	51.1 mg/kg	2470 mg/kg
01/17/2022	8:25 am	SB4	Surface	ND	ND	ND	39.5 mg/kg	76.0 mg/kg	534 mg/kg
01/17/2022	8:30 am	SB5	Surface	ND	ND	ND	124 mg/kg	224 mg/kg	2000 mg/kg
04/28/2022	1:05 pm	#1	Surface	ND	ND	ND	ND	ND	680 mg/kg
04/28/2022	1:10 pm	#2	Surface	ND	ND	ND	ND	ND	733 mg/kg
04/28/2022	1:15 pm	#3	Surface	ND	ND	ND	ND	ND	506 mg/kg
04/28/2022	1:20 pm	#4	Surface	ND	ND	ND	ND	ND	617 mg/kg
04/28/2022	1:25 pm	#5	Surface	ND	ND	ND	ND	ND	406 mg/kg
05/26/2022	8:00 am	#1	3 ft	ND	ND	ND	ND	ND	410 mg/kg
05/26/2022	8:05 am	#2	3 ft	ND	ND	ND	ND	ND	734 mg/kg
05/26/2022	8:15 am	#4	3 ft	ND	ND	ND	ND	ND	447 mg/kg
6/14/2022	8:00 am	Cowsaround SWD #2	3 ft	ND	ND	ND	ND	ND	495 mg/kg
11/8/2022	12:15 pm	A	1' 6"	ND	ND	ND	ND	ND	290 mg/kg
11/8/2022	12:30 pm	B	2' 6"	ND	ND	ND	ND	ND	283 mg/kg

Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

ND – Analyze NOT DETECTED at or above the reporting limit

mg/kg – milligrams/kilograms

DRO-Diesel Range Organics GRO-Gasoline Range Organics ORO-Oil Range Organics

Analytical Report 01/17/2022 – Appendix E

Analytical Report 04/28/2022 – Appendix F

Analytical Report 05/26/2022 – Appendix G

Analytical Report 06/14/2022 – Appendix H

Analytical Report 11/8/2022 - Appendix I

Notification sample events, time extension – Appendix J

Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

SITING CRITERIA

Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

19.15.29 NMAC
Section 12, Subsection C, Paragraph 4

- (4) If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC:
- (a) within
 - (i) 300 feet of any continuously flowing watercourse or any other significant watercourse

SITING CRITERIA 19.15.17.10 NMAC

The subject site (Cowsaround SWD #1) is 1851.9 feet from an unnamed tributary of the West Fork of Gallegos Canyon. Four (4) groundwater monitoring wells exist within the Chaco Plant property. The depth to groundwater in the monitoring wells were reported to be between 12.14 feet and 13.55 feet in August 2021; therefore, depth to water at the subject site is estimated to be less than **50 feet below ground surface (bgs)**.

Closest Groundwater data near Cowsaround - Siting Incident nAPP2202747264 Enterprise Field Services – 4/2/2019 Chaco Plant produced water spill.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

PLSS Search:

Section(s): 17 Township: 25N Range: 12W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/28/22 1:47 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 15

Township: 27N

Range: 13W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/28/22 1:47 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



Site Name:	Chaco Plant Produced Water Spill			
API #/Incident #	nAPP2202747264			
Lat/Long:	36.484021, -108.11705			
TRS:	Unit E, Section 16, T26N, R12W			
Land Jurisdiction:	Private			
County:	San Juan			
Wellhead Protection Area Assessment				
Water Source Type (well/spring/stock pond)	ID	Latitude	Longitude	Distance
Distance to Nearest Significant Watercourse				
2,376 feet to unnamed tributary northeast of spill location				
Depth to Groundwater Determination				
Cathodic Report/Site Specific Hydrogeology				
Elevation Differential				
Groundwater monitoring wells on site indicate groundwater is less than 20 feet bgs				
Water Wells				
Sensitive Receptor Determination				
<300' of any continuously flowing watercourse or any other significant watercourse				No
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water				No
<300' of an occupied permanent residence, school, hospital, institution or church				No
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes				No
<1000' of any water well or spring				No
Within incorporated municipal boundaries or within a defined municipal fresh water well				No
<300' of a wetland				No
Within the area overlying a subsurface mine				No
Within an unstable area				No
Within a 100-year floodplain				No
DTW Determination	≤50 ☒	50-100 ☐	>100 ☒	
Benzene	10	10	10	
BTEX (mg/kg)	50	50	50	
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000	
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500	
Chlorides (mg/kg)	600	10,000	20,000	



TABLE 4
Chaco Plant 3 Phase Separator (7/22/20)
GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Well Depth (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
EW-1	8.6.21	ND	12.29	ND	20	10-20	6026.96	6014.67
EW-2	8.6.21	ND	12.27	ND	20	10-20	6026.78	6014.51
EW-3	8.6.21	ND	13.55	ND	20	10-20	6028.28	6014.73
EW-4	8.6.21	ND	12.14	ND	20	10-20	6026.83	6014.69

Notes:

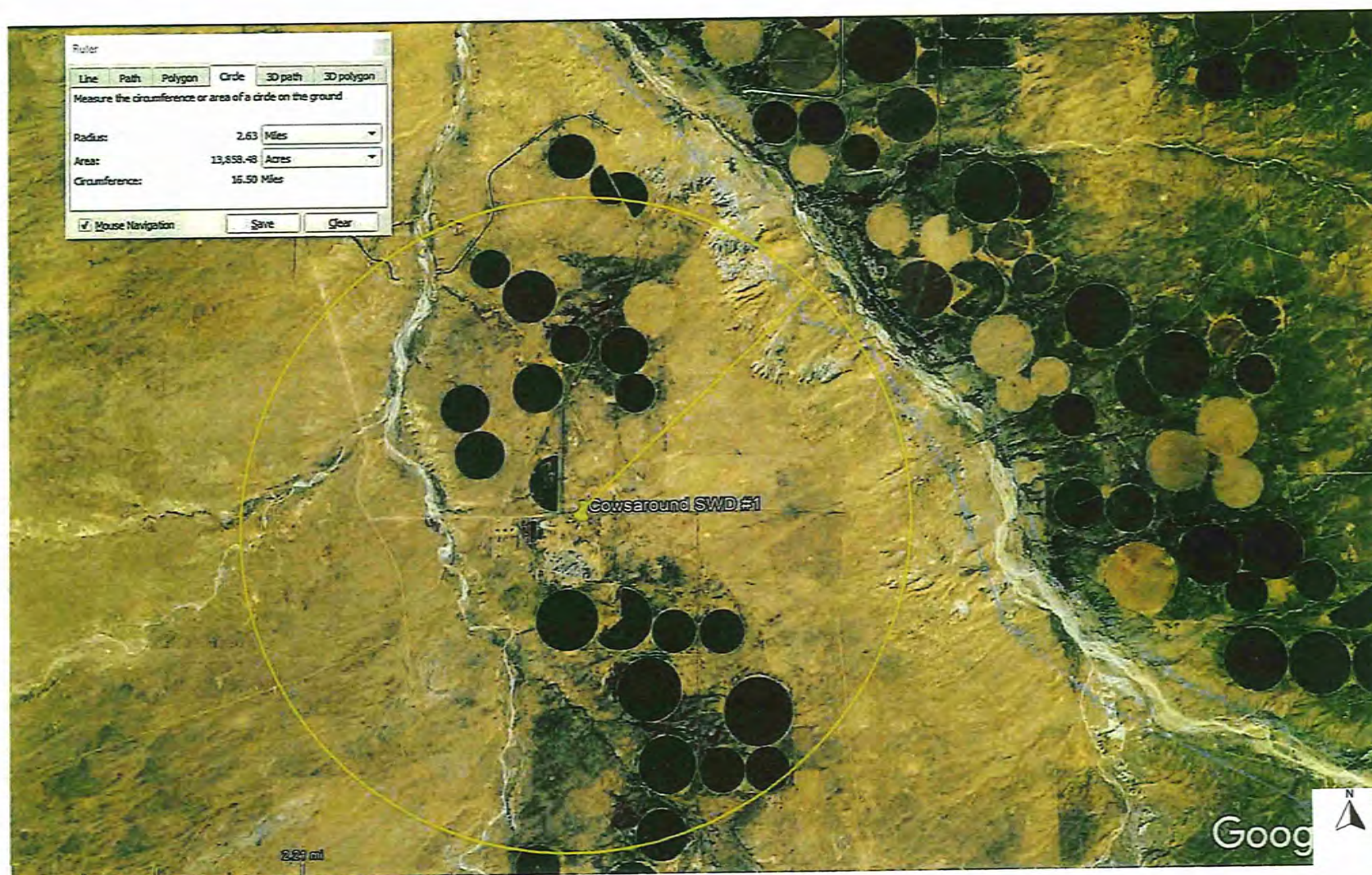
Monitoring wells surveyed in September 2021

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

Cowsaround SWD #1 - 2.63 Miles to nearest water surface source



COWSAROUND SWD #1 – API# 30-045-30096

Sitting Criteria





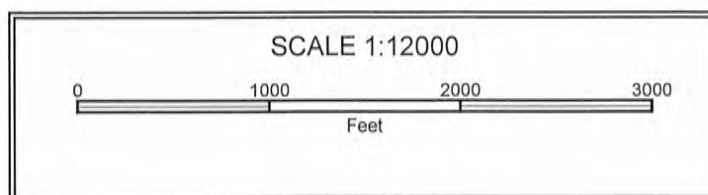
Cowsaround SWD #1

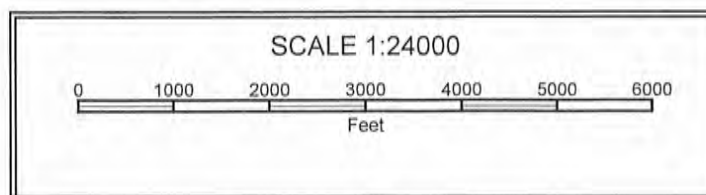
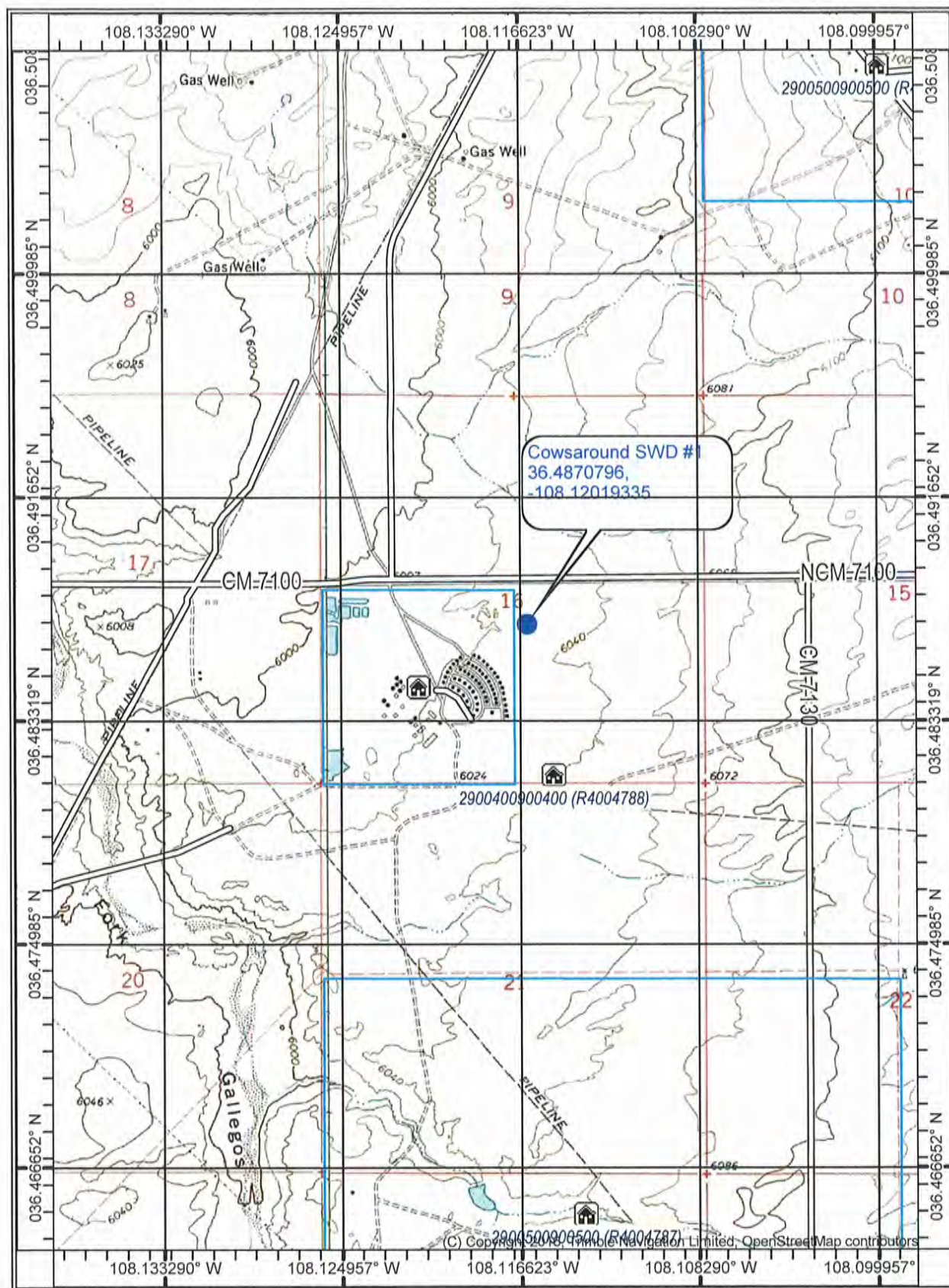
.05 miles out Scaled area map showing
nearest significant watercourse and all within
0.5 miles from the release horizontal perimeter

Legend

 Cowsaround SWD







Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

APPENDIX

Appendix A

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Epic Energy LLC. 332 RD 3100 Aztec, NM 87410	
2. Originating Site: Cowsaround SWD #001 30-045-30096	
3. Location of Material (Street Address, City, State or ULSTR): K16 26N 12W San Juan County, NM	
4. Source and Description of Waste: Hydrocarbon impacted soil around wellhead Estimated Volume <u>25</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd ³ / bbls	
5. <u>Shawna Martinez</u> GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Shawna Martinez</u> , representative or authorized agent for <u>Epic Energy</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> ☐ Monthly ☐ Weekly ☒ Per Load ☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4) <u>Shawna Martinez</u> GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Shawna Martinez</u> representative for <u>Epic Energy</u> authorize Envirotech to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
5. Transporter: KCE	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: # 43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____

TITLE: _____

DATE: _____

SIGNATURE: _____
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: _____

District I
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Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Advanced Wireless Communications, LLC	5500 Rail Rd, Farmington, NM 87402
2. Originating Site: Cowsaround SWD #001	
3. Location of Material (Street Address, City, State or ULSTR): 36.4870796,-108.1201935 NAD83	
4. Source and Description of Waste: Remove contaminated soil around pump shed.	
Estimated Volume ^{8 yd} yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS Krysten Moore, representative or authorized agent for Advanced Wireless Communications LLC do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> ☐ Monthly ☐ Weekly ☐ Per Load ☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS Krysten Moore, representative for Advanced Wireless Communications LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
5. Transporter: Advanced Wireless Communications, LLC	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #:

Address of Facility:

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED**

☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____

TITLE: _____

DATE: _____

SIGNATURE: _____
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: _____



GENERATOR AWC

POINT OF ORIGIN Cows around SWD

TRANSPORTER AWC

DATE 06.07.27 JOB # 19046-0003

[illegible]

SCANNED

RESULTS

4281

CHLORIDE TEST

1

LANDFARM
EMPLOYEE

☐ Soil w/ Debris ☐ After Hours/Weekend Reveal ☐ Scrape Out ☐ Wash Out

CHLORIDE TEST

PAINT FILTER TEST

1

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

NOTES

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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Appendix C



Bill of Lading

MANIFEST # 73049

GENERATOR AWC

POINT OF ORIGIN Coussaroud SWD #1

TRANSPORTER AWC

DATE 05-24-07 JOB # 19046-0003

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

SCANNED

Generator Onsite Contact

Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records / Billing Yellow - Customer Pink - LF Copy

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Appendix D

Report to:
Vanessa Fields



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Epic Energy

Project Name: Cows Around

Work Order: E201066

Job Number: 18012-0006

Received: 1/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/25/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 1/25/22

Vanessa Fields
7415 Main Street
Farmington, NM 87402



Project Name: Cows Around
Workorder: E201066
Date Received: 1/17/2022 9:36:00AM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/17/2022 9:36:00AM, under the Project Name: Cows Around.

The analytical test results summarized in this report with the Project Name: Cows Around 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 regarding 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
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Epic Energy	Project Name:	Cows Around	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Vanessa Fields	01/25/22 09:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB 1	E201066-01A	Soil	01/17/22	01/17/22	Glass Jar, 4 oz.
SB 2	E201066-02A	Soil	01/17/22	01/17/22	Glass Jar, 4 oz.
SB 3	E201066-03A	Soil	01/17/22	01/17/22	Glass Jar, 4 oz.
SB 4	E201066-04A	Soil	01/17/22	01/17/22	Glass Jar, 4 oz.
SB 5	E201066-05A	Soil	01/17/22	01/17/22	Glass Jar, 4 oz.

Sample Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows Around Project Number: 18012-0006 Project Manager: Vanessa Fields	Reported: 1/25/2022 9:08:47AM
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SB 1

E201066-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Benzene	ND	0.0250	1	01/20/22	01/23/22	
Ethylbenzene	ND	0.0250	1	01/20/22	01/23/22	
Toluene	ND	0.0250	1	01/20/22	01/23/22	
o-Xylene	ND	0.0250	1	01/20/22	01/23/22	
p,m-Xylene	ND	0.0500	1	01/20/22	01/23/22	
Total Xylenes	ND	0.0250	1	01/20/22	01/23/22	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/22	01/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2204054
Diesel Range Organics (C10-C28)	165	25.0	1	01/20/22	01/22/22	
Oil Range Organics (C28-C36)	407	50.0	1	01/20/22	01/22/22	
Surrogate: n-Nonane	121 %	50-200		01/20/22	01/22/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204042
Chloride	262	40.0	2	01/20/22	01/20/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
1/25/2022 9:08:47AM

SB 2

E201066-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Benzene	ND	0.0250	1	01/20/22	01/23/22	
Ethylbenzene	ND	0.0250	1	01/20/22	01/23/22	
Toluene	ND	0.0250	1	01/20/22	01/23/22	
o-Xylene	ND	0.0250	1	01/20/22	01/23/22	
p,m-Xylene	ND	0.0500	1	01/20/22	01/23/22	
Total Xylenes	ND	0.0250	1	01/20/22	01/23/22	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/22	01/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.7 %	70-130		01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2204054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/20/22	01/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/20/22	01/22/22	
Surrogate: n-Nonane	114 %	50-200		01/20/22	01/22/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204042
Chloride	933	200	10	01/20/22	01/20/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
1/25/2022 9:08:47AM

SB 3

E201066-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Benzene	ND	0.0250	1	01/20/22	01/24/22	
Ethylbenzene	ND	0.0250	1	01/20/22	01/24/22	
Toluene	ND	0.0250	1	01/20/22	01/24/22	
o-Xylene	ND	0.0250	1	01/20/22	01/24/22	
p,m-Xylene	ND	0.0500	1	01/20/22	01/24/22	
Total Xylenes	ND	0.0250	1	01/20/22	01/24/22	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		01/20/22	01/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/22	01/24/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		01/20/22	01/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2204054
Diesel Range Organics (C10-C28)	25.4	25.0	1	01/20/22	01/22/22	
Oil Range Organics (C28-C36)	51.1	50.0	1	01/20/22	01/22/22	
Surrogate: n-Nonane	113 %	50-200		01/20/22	01/22/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204042
Chloride	2470	400	20	01/20/22	01/20/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
1/25/2022 9:08:47AM

SB 4

E201066-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2204049
Benzene	ND	0.0250	1	01/20/22	01/23/22	
Ethylbenzene	ND	0.0250	1	01/20/22	01/23/22	
Toluene	ND	0.0250	1	01/20/22	01/23/22	
o-Xylene	ND	0.0250	1	01/20/22	01/23/22	
p,m-Xylene	ND	0.0500	1	01/20/22	01/23/22	
Total Xylenes	ND	0.0250	1	01/20/22	01/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2204049
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/22	01/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2204054
Diesel Range Organics (C10-C28)	39.5	25.0	1	01/20/22	01/22/22	
Oil Range Organics (C28-C36)	76.0	50.0	1	01/20/22	01/22/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	01/20/22	01/22/22	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2204042
Chloride	534	200	10	01/20/22	01/20/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
1/25/2022 9:08:47AM

SB 5

E201066-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Benzene	ND	0.0250	1	01/20/22	01/23/22	
Ethylbenzene	ND	0.0250	1	01/20/22	01/23/22	
Toluene	ND	0.0250	1	01/20/22	01/23/22	
o-Xylene	ND	0.0250	1	01/20/22	01/23/22	
p,m-Xylene	ND	0.0500	1	01/20/22	01/23/22	
Total Xylenes	ND	0.0250	1	01/20/22	01/23/22	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204049
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/22	01/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.6 %	70-130		01/20/22	01/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2204054
Diesel Range Organics (C10-C28)	124	25.0	1	01/20/22	01/22/22	
Oil Range Organics (C28-C36)	224	50.0	1	01/20/22	01/22/22	
Surrogate: n-Nonane	114 %	50-200		01/20/22	01/22/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2204042
Chloride	2000	400	20	01/20/22	01/20/22	



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Project Number: Project Manager:	Cows Around 18012-0006 Vanessa Fields	Reported: 1/25/2022 9:08:47AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2204049-BLK1)

Prepared: 01/20/22 Analyzed: 01/24/22

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: 4-Bromochlorobenzene-PID	6.99		8.00		87.3	70-130			

LCS (2204049-BS1)

Prepared: 01/20/22 Analyzed: 01/24/22

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.79	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.47	0.0500	10.0		94.7	70-130			
Total Xylenes	14.3	0.0250	15.0		95.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

Matrix Spike (2204049-MS1)

Source: E201066-03

Prepared: 01/20/22 Analyzed: 01/24/22

Benzene	4.69	0.0250	5.00	ND	93.8	54-133			
Ethylbenzene	4.61	0.0250	5.00	ND	92.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.9	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.2	63-131			
p,m-Xylene	9.37	0.0500	10.0	ND	93.7	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	93.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			

Matrix Spike Dup (2204049-MSD1)

Source: E201066-03

Prepared: 01/20/22 Analyzed: 01/24/22

Benzene	4.72	0.0250	5.00	ND	94.3	54-133	0.540	20	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133	0.616	20	
Toluene	4.82	0.0250	5.00	ND	96.4	61-130	0.481	20	
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	0.844	20	
p,m-Xylene	9.42	0.0500	10.0	ND	94.2	63-131	0.535	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.5	63-131	0.638	20	
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			



QC Summary Data

Epic Energy	Project Name:	Cows Around	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Vanessa Fields	1/25/2022 9:08:47AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2204049-BLK1)

Prepared: 01/20/22 Analyzed: 01/24/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

LCS (2204049-BS2)

Prepared: 01/20/22 Analyzed: 01/24/22

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike (2204049-MS2)

Source: E201066-03

Prepared: 01/20/22 Analyzed: 01/24/22

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2204049-MSD2)

Source: E201066-03

Prepared: 01/20/22 Analyzed: 01/24/22

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	1.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Project Number: Project Manager:	Cows Around 18012-0006 Vanessa Fields	Reported: 1/25/2022 9:08:47AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2204054-BLK1)

Prepared: 01/20/22 Analyzed: 01/22/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.2		50.0		112	50-200			

LCS (2204054-BS1)

Prepared: 01/20/22 Analyzed: 01/22/22

Diesel Range Organics (C10-C28)	451	25.0	500		90.2	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

Matrix Spike (2204054-MS1)

Source: E201066-04

Prepared: 01/20/22 Analyzed: 01/22/22

Diesel Range Organics (C10-C28)	603	25.0	500	39.5	113	38-132			
Surrogate: n-Nonane	57.4		50.0		115	50-200			

Matrix Spike Dup (2204054-MSD1)

Source: E201066-04

Prepared: 01/20/22 Analyzed: 01/22/22

Diesel Range Organics (C10-C28)	528	25.0	500	39.5	97.8	38-132	13.2	20	
Surrogate: n-Nonane	58.4		50.0		117	50-200			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows Around Project Number: 18012-0006 Project Manager: Vanessa Fields	Reported: 1/25/2022 9:08:47AM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2204042-BLK1)

Prepared: 01/20/22 Analyzed: 01/20/22

Chloride ND 20.0

LCS (2204042-BS1)

Prepared: 01/20/22 Analyzed: 01/20/22

Chloride 247 20.0 250 98.7 90-110

Matrix Spike (2204042-MS1)

Source: E201066-02

Prepared: 01/20/22 Analyzed: 01/20/22

Chloride 1250 200 250 933 126 80-120 M2

Matrix Spike Dup (2204042-MSD1)

Source: E201066-02

Prepared: 01/20/22 Analyzed: 01/20/22

Chloride 1430 200 250 933 198 80-120 13.5 20 M2

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

Epic Energy	Project Name:	Cows Around	
7415 Main Street	Project Number:	18012-0006	Reported:
Farmington NM, 87402	Project Manager:	Vanessa Fields	01/25/22 09:08

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

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.



Client: PTC Energy
 Project: Coal Seam Gas
 Project Manager: Wanda Fields
 Address: 332 Red Bluff
 City, State, Zip: Ariz. NM 87410
 Phone: 505-787-9100
 Email: Wanda.Fields@ptc.net
 Report due by: 2/28/2010

Attention: Bill To
 Address:
 City, State, Zip:
 Phone:
 Email:

Lab Use Only

Lab WO# E 2010066 Job Number 18012-0000

TAT: 1D 2D 3D Standard

EPA Program: CWA SDWA

RCRA

Analysis and Method

DRD/DO by 8015 GSD/DO by 8015 BTEX by 8021 VOC by 8260 Metals 500 Chloride 500

State: NM X CO UT AZ TX

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRD/DO by 8015	GSD/DO by 8015	BTEX by 8021	VOC by 8260	Metals 500	Chloride 500	Remarks
8:07	1/17/20	S	401	SB 1	1	X	X	X		X		
8:13	1/17/20		402	SB 2	2	X	X	X		X		
8:20	1/17/20		401	SB 3	3	X	X	X		X		
8:25	1/17/20		401	SB 4	4	X	X	X		X		
8:30	1/17/20		401	SB 5	5	X	X	X		X		

Additional Instructions:

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

Relinquished by: (Signature) [Signature] Date 1/17/20 Time 9:37

Received by: (Signature) [Signature] Date 1/17/20 Time 9:30

Relinquished by: (Signature) Date Time Received by: (Signature) Date Time

Relinquished by: (Signature) Date Time Received by: (Signature) Date Time

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 Analytical Laboratory

Printed: 1/17/2022 11:35:10AM

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:	Epic Energy	Date Received:	01/17/22 09:36	Work Order ID:	E201066
Phone:	(505) 327-4892	Date Logged In:	01/17/22 11:31	Logged In By:	Caitlin Christian
Email:	vanessa@walsheng.net	Due Date:	01/24/22 17:00 (5 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Vanessa Fields

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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 InstructionComments/Resolution

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

Date:



envirotech Inc.

Report to:
Shawna Martinez



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Epic Energy

Project Name: Cows Around SWD#1

Work Order: E204200

Job Number: 18012-0006

Received: 4/28/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/4/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 5/4/22

Shawna Martinez
7415 Main Street
Farmington, NM 87402



Project Name: Cows Around SWD#1
Workorder: E204200
Date Received: 4/28/2022 2:52:00PM

Shawna Martinez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/28/2022 2:52:00PM, under the Project Name: Cows Around SWD#1.

The analytical test results summarized in this report with the Project Name: Cows Around SWD#1 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 regarding 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

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Rayny Hagan
Technical Representative
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Sample Summary

Epic Energy	Project Name:	Cows Around SWD#1	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	05/04/22 08:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
#1	E204200-01A	Soil	04/28/22	04/28/22	Glass Jar, 4 oz.
#2	E204200-02A	Soil	04/28/22	04/28/22	Glass Jar, 4 oz.
#3	E204200-03A	Soil	04/28/22	04/28/22	Glass Jar, 4 oz.
#4	E204200-04A	Soil	04/28/22	04/28/22	Glass Jar, 4 oz.
#5	E204200-05A	Soil	04/28/22	04/28/22	Glass Jar, 4 oz.



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around SWD#1
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
5/4/2022 8:45:44 AM

#1

E204200-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Benzene	ND	0.0250	1	04/29/22	05/02/22	
Ethylbenzene	ND	0.0250	1	04/29/22	05/02/22	
Toluene	ND	0.0250	1	04/29/22	05/02/22	
o-Xylene	ND	0.0250	1	04/29/22	05/02/22	
p,m-Xylene	ND	0.0500	1	04/29/22	05/02/22	
Total Xylenes	ND	0.0250	1	04/29/22	05/02/22	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/22	05/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2219001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/22	05/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/22	05/02/22	
Surrogate: n-Nonane	82.4 %	50-200		05/02/22	05/02/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: CS		Batch: 2218049
Chloride	680	20.0	1	04/29/22	05/02/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around SWD#1
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
5/4/2022 8:45:44 AM

#2

E204200-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Benzene	ND	0.0250	1	04/29/22	05/02/22	
Ethylbenzene	ND	0.0250	1	04/29/22	05/02/22	
Toluene	ND	0.0250	1	04/29/22	05/02/22	
o-Xylene	ND	0.0250	1	04/29/22	05/02/22	
p,m-Xylene	ND	0.0500	1	04/29/22	05/02/22	
Total Xylenes	ND	0.0250	1	04/29/22	05/02/22	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/22	05/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.7 %	70-130		04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2219001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/22	05/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/22	05/02/22	
Surrogate: n-Nonane	84.5 %	50-200		05/02/22	05/02/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: CS		Batch: 2218049
Chloride	733	20.0	1	04/29/22	05/02/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around SWD#1
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
5/4/2022 8:45:44AM

#3

E204200-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Benzene	ND	0.0250	1	04/29/22	05/02/22	
Ethylbenzene	ND	0.0250	1	04/29/22	05/02/22	
Toluene	ND	0.0250	1	04/29/22	05/02/22	
o-Xylene	ND	0.0250	1	04/29/22	05/02/22	
p,m-Xylene	ND	0.0500	1	04/29/22	05/02/22	
Total Xylenes	ND	0.0250	1	04/29/22	05/02/22	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/22	05/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.7 %	70-130		04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2219001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/22	05/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/22	05/02/22	
Surrogate: n-Nonane	82.6 %	50-200		05/02/22	05/02/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: CS		Batch: 2218049
Chloride	506	20.0	1	04/29/22	05/02/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around SWD#1
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
5/4/2022 8:45:44AM

#4

E204200-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2218048
Benzene	ND	0.0250	1	04/29/22	05/02/22	
Ethylbenzene	ND	0.0250	1	04/29/22	05/02/22	
Toluene	ND	0.0250	1	04/29/22	05/02/22	
o-Xylene	ND	0.0250	1	04/29/22	05/02/22	
p,m-Xylene	ND	0.0500	1	04/29/22	05/02/22	
Total Xylenes	ND	0.0250	1	04/29/22	05/02/22	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2218048
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/22	05/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2219001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/22	05/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/22	05/02/22	
Surrogate: n-Nonane		80.5 %	50-200	05/02/22	05/02/22	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: CS		Batch: 2218049
Chloride	617	20.0	1	04/29/22	05/02/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows Around SWD#1
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
5/4/2022 8:45:44 AM

#5

E204200-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Benzene	ND	0.0250	1	04/29/22	05/02/22	
Ethylbenzene	ND	0.0250	1	04/29/22	05/02/22	
Toluene	ND	0.0250	1	04/29/22	05/02/22	
o-Xylene	ND	0.0250	1	04/29/22	05/02/22	
p,m-Xylene	ND	0.0500	1	04/29/22	05/02/22	
Total Xylenes	ND	0.0250	1	04/29/22	05/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.5 %	70-130	04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2218048
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/22	05/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	04/29/22	05/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2219001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/22	05/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/22	05/02/22	
<i>Surrogate: n-Nonane</i>						
		83.6 %	50-200	05/02/22	05/02/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: CS		Batch: 2218049
Chloride	406	20.0	1	04/29/22	05/02/22	



QC Summary Data

Epic Energy	Project Name:	Cows Around SWD#1	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	5/4/2022 8:45:44 AM

Volatile Organics by EPA 8021B

Analyst: IV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2218048-BLK1)

Prepared: 04/29/22 Analyzed: 04/29/22

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: 4-Bromochlorobenzene-PID	8.43		8.00		105	70-130			

LCS (2218048-BS1)

Prepared: 04/29/22 Analyzed: 04/29/22

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.1	70-130			
Toluene	4.88	0.0250	5.00		97.7	70-130			
o-Xylene	4.79	0.0250	5.00		95.9	70-130			
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			

Matrix Spike (2218048-MS1)

Source: E204202-01

Prepared: 04/29/22 Analyzed: 04/29/22

Benzene	5.00	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.52	0.0250	5.00	ND	90.4	61-133			
Toluene	4.80	0.0250	5.00	ND	95.9	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.2	63-131			
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			

Matrix Spike Dup (2218048-MSD1)

Source: E204202-01

Prepared: 04/29/22 Analyzed: 04/29/22

Benzene	5.28	0.0250	5.00	ND	106	54-133	5.36	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133	4.54	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	4.98	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	4.68	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	4.24	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.7	63-131	4.39	20	
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			



QC Summary Data

Epic Energy	Project Name:	Cows Around SWD//1	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	5/4/2022 8:45:44AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2218048-BLK1)

Prepared: 04/29/22 Analyzed: 04/29/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2218048-BS2)

Prepared: 04/29/22 Analyzed: 04/29/22

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0		98.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		89.9	70-130			

Matrix Spike (2218048-MS2)

Source: E204202-01

Prepared: 04/29/22 Analyzed: 04/29/22

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

Matrix Spike Dup (2218048-MSD2)

Source: E204202-01

Prepared: 04/29/22 Analyzed: 04/29/22

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	8.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			



QC Summary Data

Epic Energy	Project Name:	Cows Around SWD#1	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	5/4/2022 8:45:44AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2219001-BLK1)

Prepared: 05/02/22 Analyzed: 05/02/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			

LCS (2219001-BS1)

Prepared: 05/02/22 Analyzed: 05/02/22

Diesel Range Organics (C10-C28)	492	25.0	500		98.4	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS Dup (2219001-BSD1)

Prepared: 05/02/22 Analyzed: 05/03/22

Diesel Range Organics (C10-C28)	499	25.0	500		99.7	38-132	1.36	20	
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Project Number: Project Manager:	Cows Around SWD#1 18012-0006 Shawna Martinez	Reported: 5/4/2022 8:45:44AM
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Anions by EPA 300.0/9056A

Analyst: CS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2218049-BLK1) Prepared: 04/29/22 Analyzed: 04/29/22									
Chloride	ND	20.0							
LCS (2218049-BS1) Prepared: 04/29/22 Analyzed: 05/02/22									
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2218049-MS1) Source: E204202-01 Prepared: 04/29/22 Analyzed: 04/29/22									
Chloride	445	20.0	250	174	108	80-120			
Matrix Spike Dup (2218049-MSD1) Source: E204202-01 Prepared: 04/29/22 Analyzed: 04/29/22									
Chloride	411	20.0	250	174	95.0	80-120	7.82	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

Epic Energy	Project Name:	Cows Around SWD#1	Reported:
7415 Main Street	Project Number:	18012-0006	05/04/22 08:45
Farmington NM, 87402	Project Manager:	Shawna Martinez	

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.





Envirotech Analytical Laboratory

Printed: 4/28/2022 3:35:50PM

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:	Epic Energy	Date Received:	04/28/22 14:52	Work Order ID:	E204200
Phone:	(505) 327-4892	Date Logged In:	04/28/22 15:28	Logged In By:	Caitlin Christian
Email:	shawna@walsheng.net	Due Date:	05/05/22 17:00 (5 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 |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes |
| 5. Were all samples received within holding time? | Yes |
| Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. | |

Carrier: Michael Dean

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 | Yes |
| Note: Thermal preservation is not required, if samples are received w/ 15 minutes of sampling | |
| 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 filtration 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.

Report to:
Shawna Martinez



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Epic Energy

Project Name: Cows around SWD

Work Order: E205141

Job Number: 18012-0006

Received: 5/26/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/3/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/3/22

Shawna Martinez
7415 Main Street
Farmington, NM 87402



Project Name: Cows around SWD
Workorder: E205141
Date Received: 5/26/2022 11:31:00AM

Shawna Martinez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2022 11:31:00AM, under the Project Name: Cows around SWD.

The analytical test results summarized in this report with the Project Name: Cows around SWD 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 regarding 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
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Sample Summary

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	06/03/22 16:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
#1	E205141-01A	Soil	05/26/22	05/26/22	Glass Jar, 4 oz.
#2	E205141-02A	Soil	05/26/22	05/26/22	Glass Jar, 4 oz.
#4	E205141-03A	Soil	05/26/22	05/26/22	Glass Jar, 4 oz.



Sample Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/3/2022 4:45:10 PM
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#1

E205141-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY	Batch: 2223020	
Benzene	ND	0.0250	1	06/01/22	06/02/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/02/22	
Toluene	ND	0.0250	1	06/01/22	06/02/22	
o-Xylene	ND	0.0250	1	06/01/22	06/02/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/02/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/02/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		06/01/22	06/02/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/01/22	06/02/22	
Surrogate: Toluene-d8	98.6 %	70-130		06/01/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY	Batch: 2223020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/02/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		06/01/22	06/02/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/01/22	06/02/22	
Surrogate: Toluene-d8	98.6 %	70-130		06/01/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL	Batch: 2223053	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
Surrogate: n-Nonane	113 %	50-200		06/03/22	06/03/22	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS	Batch: 2223021	
Chloride	410	20.0	1	06/01/22	06/02/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
6/3/2022 4:45:10PM

#2

E205141-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2223020
Benzene	ND	0.0250	1	06/01/22	06/02/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/02/22	
Toluene	ND	0.0250	1	06/01/22	06/02/22	
o-Xylene	ND	0.0250	1	06/01/22	06/02/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/02/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/02/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		06/01/22	06/02/22	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		06/01/22	06/02/22	
Surrogate: Toluene-d8	98.7 %	70-130		06/01/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2223020
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/02/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		06/01/22	06/02/22	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		06/01/22	06/02/22	
Surrogate: Toluene-d8	98.7 %	70-130		06/01/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2223053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
Surrogate: n-Nonane	101 %	50-200		06/03/22	06/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2223021
Chloride	734	20.0	1	06/01/22	06/02/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
6/3/2022 4:45:10PM

#4

E205141-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: 1Y		Batch: 2223020
Benzene	ND	0.0250	1	06/01/22	06/02/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/02/22	
Toluene	ND	0.0250	1	06/01/22	06/02/22	
o-Xylene	ND	0.0250	1	06/01/22	06/02/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/02/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/02/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		06/01/22	06/02/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/01/22	06/02/22	
Surrogate: Toluene-d8	98.5 %	70-130		06/01/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: 1Y		Batch: 2223020
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/02/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		06/01/22	06/02/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/01/22	06/02/22	
Surrogate: Toluene-d8	98.5 %	70-130		06/01/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2223053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
Surrogate: n-Nonane	101 %	50-200		06/03/22	06/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2223021
Chloride	447	20.0	1	06/01/22	06/02/22	



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/3/2022 4:45:10PM
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Volatile Organic Compounds by EPA 8260B

Analyst: 1Y

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223020-BLK1)

Prepared: 06/01/22 Analyzed: 06/01/22

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	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.312		0.500		102	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2223020-BS1)

Prepared: 06/01/22 Analyzed: 06/01/22

Benzene	2.59	0.0250	2.50		103	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.59	0.0250	2.50		103	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

Matrix Spike (2223020-MS1)

Source: E205140-02

Prepared: 06/01/22 Analyzed: 06/01/22

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135			
Toluene	2.63	0.0250	2.50	ND	105	48-130			
o-Xylene	2.68	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.29	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.97	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2223020-MSD1)

Source: E205140-02

Prepared: 06/01/22 Analyzed: 06/01/22

Benzene	2.53	0.0250	2.50	ND	101	48-131	3.71	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	3.95	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.95	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	3.82	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	4.45	27	
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135	4.24	27	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	6/3/2022 4:45:10PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: LY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223020-BLK1)

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2223020-BS2)

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	55.6	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

Matrix Spike (2223020-MS2)

Source: E205140-02

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike Dup (2223020-MSD2)

Source: E205140-02

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	6.41	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/3/2022 4:45:10PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223053-BLK1)

Prepared: 06/03/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.6		50.0		93.3	50-200			

LCS (2223053-BS1)

Prepared: 06/03/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	471	25.0	500		94.3	38-132			
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			

Matrix Spike (2223053-MS1)

Source: E205146-03

Prepared: 06/03/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	523	25.0	500	ND	105	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2223053-MSD1)

Source: E205146-03

Prepared: 06/03/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	497	25.0	500	ND	99.4	38-132	5.08	20	
Surrogate: n-Nonane	43.5		50.0		87.1	50-200			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/3/2022 4:45:10PM
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Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2223021-BLK1) Prepared: 06/01/22 Analyzed: 06/02/22									
Chloride	ND	20.0							
LCS (2223021-BS1) Prepared: 06/01/22 Analyzed: 06/02/22									
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2223021-MS1) Source: E205140-01 Prepared: 06/01/22 Analyzed: 06/02/22									
Chloride	668	20.0	350	419	99.6	80-120			
Matrix Spike Dup (2223021-MSD1) Source: E205140-01 Prepared: 06/01/22 Analyzed: 06/02/22									
Chloride	659	20.0	250	419	95.9	80-120	1.40	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

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	06/03/22 16:45
Farmington NM, 87402	Project Manager:	Shawna Martinez	

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.



Client: <u>EPIC ENERGY LLC</u>					Bill To		Lab Use Only		TAT				EPA Program				
Project: <u>CANSAAROUND SNO</u>					Attention: <u>EPIC ENERGY LLC</u>		Lab WO# <u>E205141</u>		Job Number <u>18012-00510</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <u>SHAWNNA NASHINKE</u>					Address:		Analysis and Method										
Address: <u>314 CR 3100</u>					City, State, Zip												
City, State, Zip: <u>87734 NM 8440</u>					Phone:												
Phone: <u>505-327-4071</u>					Email:												
Email: <u>SHAWNNA.NASHINKE@EPIC</u>					Report due by:												
Time Sampled	Date Sampled	Matrix	Vol of Containers	Sample ID	Lab Number	DO/OD by 8015	SO ₄ by 8015	ATEX by 8021	VOC by 8230	Metals 8010	Chloride 8000						
8:00AM	8-26-22	S	1	#1	1	X	X	X		X							
8:05AM	8-26-22	S	1	#2	2	1	1	1		1							
8:15AM	8-26-22	S	1	#4	3	1	1	1		1							
	5/26/22																
Additional Instructions:																	
I, (held sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Signed by: <u>NICHOLAS L. DEAN</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.									
<u>[Signature]</u>		8-26-22	11:30AM	<u>Chadler Chater</u>		5/26/22	11:31	Lab Use Only									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on Ice: <u>Y/N</u>									
								T1 _____ T2 _____ T3 _____									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>									
								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
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 Analytical Laboratory

Printed: 5/26/2022 11:37:45AM

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:	Epic Energy	Date Received:	05/26/22 11:31	Work Order ID:	E205141
Phone:	(505) 327-4892	Date Logged In:	05/26/22 11:33	Logged In By:	Caitlin Christian
Email:	shawnm@wnsheng.net	Due Date:	06/03/22 17:00 (5 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
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
 5. Were all samples received within holding time? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Michael DeanComments/ResolutionSample 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°C±2°C Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
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? No
 - 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 filtration 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

Report to:
Shawna Martinez



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Epic Energy

Project Name: Cows around SWD

Work Order: E206093

Job Number: 18012-0006

Received: 6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/21/22

Shawna Martinez
7415 Main Street
Farmington, NM 87402



Project Name: Cows around SWD
Workorder: E206093
Date Received: 6/14/2022 3:06:00PM

Shawna Martinez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 3:06:00PM, under the Project Name: Cows around SWD.

The analytical test results summarized in this report with the Project Name: Cows around SWD 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 regarding 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Lynn Jarboe
Technical Representative/Client Services
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Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	06/21/22 16:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cows Around SWD #2	E206093-01A	Soil	06/14/22	06/14/22	Glass Jar, 4 oz.

Sample Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/21/2022 4:52:42PM
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Cows Around SWD #2

E206093-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IV		Batch: 2226001
Benzene	ND	0.0250	1	06/20/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/20/22	06/20/22	
Toluene	ND	0.0250	1	06/20/22	06/20/22	
o-Xylene	ND	0.0250	1	06/20/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/20/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/20/22	06/20/22	
Surrogate: 4-Bromochlorobenzene-PID	88.1 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IV		Batch: 2226001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/22	06/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		06/20/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2226004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/22	06/21/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/22	06/21/22	
Surrogate: n-Nonane	100 %	50-200		06/20/22	06/21/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2226007
Chloride	495	20.0	1	06/20/22	06/20/22	



QC Summary Data

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	6/21/2022 4:52:42PM

Volatile Organics by EPA 8021B

Analyst: IV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226001-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

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: 4-Bromochlorobenzene-PID 7.11 8.00 88.9 70-130

LCS (2226001-BS1)

Prepared: 06/20/22 Analyzed: 06/20/22

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.1	70-130			
Toluene	4.88	0.0250	5.00		97.7	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.49	0.0500	10.0		94.9	70-130			
Total Xylenes	14.3	0.0250	15.0		95.0	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.35 8.00 91.9 70-130

LCS Dup (2226001-BSD1)

Prepared: 06/20/22 Analyzed: 06/20/22

Benzene	5.12	0.0250	5.00		102	70-130	0.902	20	
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130	0.951	20	
Toluene	4.93	0.0250	5.00		98.6	70-130	0.926	20	
o-Xylene	4.81	0.0250	5.00		96.3	70-130	1.05	20	
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130	0.901	20	
Total Xylenes	14.4	0.0250	15.0		95.9	70-130	0.951	20	

Surrogate: 4-Bromochlorobenzene-PID 7.31 8.00 91.3 70-130



QC Summary Data

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	6/21/2022 4:52:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226001-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

LCS (2226001-BS2)

Prepared: 06/20/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		94.5	70-130			

LCS Dup (2226001-BSD2)

Prepared: 06/20/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0		109	70-130	3.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/21/2022 4:52:42PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226004-BLK1)

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.1		50.0		84.3	50-200			

LCS (2226004-BS1)

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	492	25.0	500		98.4	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2226004-MS1)

Source: E206143-06

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	488	25.0	500	ND	97.7	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Matrix Spike Dup (2226004-MSD1)

Source: E206143-06

Prepared: 06/20/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	494	25.0	500	ND	98.9	38-132	1.22	20	
Surrogate: n-Nonane	49.4		50.0		98.7	50-200			



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 6/21/2022 4:52:42PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2226007-BLK1) Prepared: 06/20/22 Analyzed: 06/20/22									
Chloride	ND	20.0							
LCS (2226007-BS1) Prepared: 06/20/22 Analyzed: 06/20/22									
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2226007-MS1) Source: E206138-01 Prepared: 06/20/22 Analyzed: 06/20/22									
Chloride	1260	40.0	250	1170	37.2	80-120			M4
Matrix Spike Dup (2226007-MSD1) Source: E206138-01 Prepared: 06/20/22 Analyzed: 06/20/22									
Chloride	1270	40.0	250	1170	40.4	80-120	0.638	20	M4

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

Epic Energy	Project Name:	Cows around SWD	
7415 Main Street	Project Number:	18012-0006	Reported:
Farmington NM, 87402	Project Manager:	Shawna Martinez	06/21/22 16:52

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

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.





Envirotech Analytical Laboratory

Printed: 6/14/2022 5:03:40PM

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:	Epic Energy	Date Received:	06/14/22 15:06	Work Order ID:	E206093
Phone:	(505) 327-4892	Date Logged In:	06/14/22 16:59	Logged In By:	Alexa Michaels
Email:	shawna@walsheng.net	Due Date:	06/21/22 17:00 (5 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
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
 5. Were all samples received within holding time? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Michael Dean

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 (pen 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? Yes

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 filtration 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

Comments/Resolution

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

Date



envirotech Inc.

Shawna Martinez

From: Auto-Receipt <noreply@mail.authorize.net>
Sent: Wednesday, June 22, 2022 1:48 PM
To: Shawna Martinez
Subject: Transaction Receipt from EMNRD OCD for \$150.00 (USD)

Order Information

Description: Goods or Services
PO Number OM8H6-220622-C-1410

Billing Information	Shipping Information
Karen Mills	
332 Road 3100	
Aztec, NM 87410	
US	
shawna@walsheng.net	
505-327-4892	

Total: \$150.00 (USD)

Payment Information

Date/Time: 22-Jun-2022 13:48:21 MDT
Transaction ID: 43474795156
Payment Method: Visa xxxx3248
Transaction Type: Purchase
Auth Code: 04667G

Merchant Contact Information

EMNRD OCD
Santa Fe, NM 87505
US
ocdfes@state.nm.us

Page 93 of 129
Received by OCD: 11/18/2022 10:02:13 AM
Released to Imaging: 12/8/2022 2:31:20 PM

Report to:
Shawna Martinez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Epic Energy

Project Name: Cows around SWD

Work Order: E211046

Job Number: 18012-0006

Received: 11/8/2022

5796 U.S. Hwy 64
Farmington, NM 87401

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



Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/10/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/10/22

Shawna Martinez
7415 Main Street
Farmington, NM 87402



Project Name: Cows around SWD
Workorder: E211046
Date Received: 11/8/2022 2:41:00PM

Shawna Martinez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/8/2022 2:41:00PM, under the Project Name: Cows around SWD.

The analytical test results summarized in this report with the Project Name: Cows around SWD 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 regarding 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
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
11/10/22 14:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
A	E211046-01A	Soil	11/08/22	11/08/22	Glass Jar, 4 oz.
B	E211046-02A	Soil	11/08/22	11/08/22	Glass Jar, 4 oz.



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
11/10/2022 2:50:57PM

A

E211046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246032
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246032
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.9 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	125 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246039
Chloride	290	20.0	1	11/09/22	11/10/22	



Sample Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
11/10/2022 2:50:57PM

B

E211046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246032
Benzene	ND	0.0250	1	11/08/22	11/09/22	
Ethylbenzene	ND	0.0250	1	11/08/22	11/09/22	
Toluene	ND	0.0250	1	11/08/22	11/09/22	
o-Xylene	ND	0.0250	1	11/08/22	11/09/22	
p,m-Xylene	ND	0.0500	1	11/08/22	11/09/22	
Total Xylenes	ND	0.0250	1	11/08/22	11/09/22	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2246032
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/22	11/09/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		11/08/22	11/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2246041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/22	11/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/22	11/09/22	
Surrogate: n-Nonane	117 %	50-200		11/09/22	11/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2246039
Chloride	283	20.0	1	11/09/22	11/10/22	



QC Summary Data

Epic Energy 7415 Main Street Farmington NM, 87402	Project Name: Cows around SWD Project Number: 18012-0006 Project Manager: Shawna Martinez	Reported: 11/10/2022 2:50:57PM
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Volatile Organics by EPA 8021B

Analyst: IV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246032-BLK1)

Prepared: 11/08/22 Analyzed: 11/09/22

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: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

LCS (2246032-BS1)

Prepared: 11/08/22 Analyzed: 11/09/22

Benzene	6.51	0.0250	5.00		130	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.48	0.0250	5.00		110	70-130			
o-Xylene	5.20	0.0250	5.00		104	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.65		8.00		108	70-130			

Matrix Spike (2246032-MS1)

Source: E211044-03

Prepared: 11/08/22 Analyzed: 11/09/22

Benzene	5.74	0.0250	5.00	ND	115	54-133			
Ethylbenzene	4.50	0.0250	5.00	ND	90.1	61-133			
Toluene	4.83	0.0250	5.00	ND	96.6	61-130			
o-Xylene	4.59	0.0250	5.00	ND	91.8	63-131			
p,m-Xylene	9.16	0.0500	10.0	ND	91.6	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	91.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.57		8.00		107	70-130			

Matrix Spike Dup (2246032-MSD1)

Source: E211044-03

Prepared: 11/08/22 Analyzed: 11/09/22

Benzene	5.72	0.0250	5.00	ND	114	54-133	0.292	20	
Ethylbenzene	4.49	0.0250	5.00	ND	89.8	61-133	0.230	20	
Toluene	4.81	0.0250	5.00	ND	96.2	61-130	0.373	20	
o-Xylene	4.58	0.0250	5.00	ND	91.6	63-131	0.293	20	
p,m-Xylene	9.13	0.0500	10.0	ND	91.3	63-131	0.337	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.4	63-131	0.322	20	
Surrogate: 4-Bromochlorobenzene-PID	8.49		8.00		106	70-130			



QC Summary Data

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
11/10/2022 2:50:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246032-BLK1)

Prepared: 11/08/22 Analyzed: 11/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.70		8.00		83.8	70-130			

LCS (2246032-BS2)

Prepared: 11/08/22 Analyzed: 11/09/22

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0		82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.59		8.00		82.4	70-130			

Matrix Spike (2246032-MS2)

Source: E211044-03

Prepared: 11/08/22 Analyzed: 11/09/22

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.50		8.00		81.2	70-130			

Matrix Spike Dup (2246032-MSD2)

Source: E211044-03

Prepared: 11/08/22 Analyzed: 11/09/22

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130	8.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			



QC Summary Data

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	11/10/2022 2:50:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246041-BLK1)

Prepared: 11/09/22 Analyzed: 11/09/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2246041-BS1)

Prepared: 11/09/22 Analyzed: 11/09/22

Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike (2246041-MS1)

Source: E211041-24

Prepared: 11/09/22 Analyzed: 11/10/22

Diesel Range Organics (C10-C28)	306	25.0	250	86.3	87.8	38-132			
Surrogate: n-Nonane	57.3		50.0		115	50-200			

Matrix Spike Dup (2246041-MSD1)

Source: E211041-24

Prepared: 11/09/22 Analyzed: 11/10/22

Diesel Range Organics (C10-C28)	329	25.0	250	86.3	97.1	38-132	7.29	20	
Surrogate: n-Nonane	57.2		50.0		114	50-200			



QC Summary Data

Epic Energy	Project Name:	Cows around SWD	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Shawna Martinez	11/10/2022 2:50:57PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2246039-BLK1)

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride ND 20.0

LCS (2246039-BS1)

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride 241 20.0 250 96.2 90-110

Matrix Spike (2246039-MS1)

Source: E211034-29

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride 286 20.0 250 43.2 97.1 80-120

Matrix Spike Dup (2246039-MSD1)

Source: E211034-29

Prepared: 11/09/22 Analyzed: 11/10/22

Chloride 293 20.0 250 43.2 99.9 80-120 2.44 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

Epic Energy
7415 Main Street
Farmington NM, 87402

Project Name: Cows around SWD
Project Number: 18012-0006
Project Manager: Shawna Martinez

Reported:
11/10/22 14:50

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.





Envirotech Analytical Laboratory

Printed: 11/8/2022 2:49:31PM

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:	Epic Energy	Date Received:	11/08/22 14:41	Work Order ID:	E211046
Phone:	(505) 327-4892	Date Logged In:	11/08/22 14:46	Logged In By:	Caitlin Christian
Email:	shawna@walsheng.net	Due Date:	11/11/22 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Michael DeanComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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? No
 - 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 filtration 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

Shawna Martinez

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

11/9/2022

Date



envirotech Inc.

Shawna Martinez

From: Shawna Martinez
Sent: Tuesday, November 8, 2022 8:49 AM
To: Velez, Nelson, EMNRD
Cc: Paul Thompson; John Thompson; West Hahn; Vern Andrews; tjlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney; Arleen Smith; Johnson, David; Bratcher, Michael, EMNRD; Michael Dean
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning Nelson,

Epic Energy is requesting a variance to do the sampling today, November 8, 2022, on the Cowsaround SWD #1, citing Rule 19.15.29.12 D (1a). The request is due to weather. Rule 19.15.29.14 A (1) These samples need to be taken today because we are supposed to get wet weather tomorrow.

Thank you for your consideration on this matter.

Thank You,



Shawna Martinez
 Regulatory Specialist
 Walsh Engineering | Epic Energy, LLC
 O:505-327-4892 | C:505-635-9042
 shawna@walsheng.net

From: Shawna Martinez
Sent: Monday, November 7, 2022 9:01 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tjlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Michael Dean <michael.dean@walsheng.net>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning,

Epic Energy is providing 48-hour notification for confirmation sampling on the Cowsaround SWD #1 for Thursday, November 10, 2022 @8:00AM.

Thank You,

Shawna Martinez

From: Shawna Martinez
Sent: Monday, November 7, 2022 9:01 AM
To: Velez, Nelson, EMNRD
Cc: Paul Thompson; John Thompson; West Hahn; Vern Andrews; tjlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney; Arleen Smith; Johnson, David; Bratcher, Michael, EMNRD; Michael Dean
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning,

Epic Energy is providing 48-hour notification for confirmation sampling on the Cowsaround SWD #1 for Thursday, November 10, 2022 @8:00AM.

Thank You,



Shawna Martinez
 Regulatory Specialist
 Walsh Engineering | Epic Energy, LLC
 O:505-327-4892 | C:505-635-9042
 shawna@walsheng.net

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, October 13, 2022 2:02 PM
To: Shawna Martinez <shawna@walsheng.net>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tjlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Michael Dean <michael.dean@walsheng.net>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Shawna,

Thank you for the update. Please inform OCD as soon as Epic Energy has rescheduled.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division
 1000 Rio Brazos Road | Aztec, NM 87410
 (505) 469-6146 | nelson.velez@emnrd.nm.gov **NOTE NEW EMAIL ADDRESS**
<http://www.emnrd.state.nm.us/OCD/>



From: Shawna Martinez <shawna@walsheng.net>
Sent: Thursday, October 13, 2022 11:59 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Thompson, Paul <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tjlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Michael Dean <michael.dean@walsheng.net>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning Nelson,

We were not able to do the sampling this morning. Due to the rain, there were ponds where we were needing to sample.(see attached photos) Vern did take some water samples. We will reschedule when it has dried up.

Thank You,



Shawna Martinez
 Regulatory Specialist
 Walsh Engineering | Epic Energy, LLC
 O:505-327-4892 | C:505-635-9042
shawna@walsheng.net

From: Shawna Martinez
Sent: Tuesday, October 11, 2022 8:53 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com <tlong@eprod.com>; krysten@advancedwirelessllc.com <krysten@advancedwirelessllc.com>; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; Michael Dean <michael.dean@walsheng.net>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning,

Epic Energy is providing 48-hour notification for confirmation sampling on the Cowsaround SWD #1 on Thursday, October 13, 2022 @8:00AM.

Thank You,



Shawna Martinez
Regulatory Specialist
Walsh Engineering | Epic Energy, LLC
O:505-327-4892 | C:505-635-9042
shawna@walsheng.net

From: Shawna Martinez
Sent: Friday, June 10, 2022 11:49 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Michael Dean <michael.dean@walsheng.net>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning,

Epic Energy is providing 48-hour notification for confirmation sampling on the Cowsaround SWD #1 on Tuesday, June 14th, 2022 @8:00AM.

Thank You,

Shawna Martinez
Regulatory Tech
Walsh Engineering/Epic Energy, LLC
O: 505-327-4892
shawna@walsheng.net

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Friday, June 10, 2022 11:11 AM
To: Shawna Martinez <shawna@walsheng.net>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Michael Dean <michael.dean@walsheng.net>

Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Shawna,

After reviewing our database for this major release incident with the discovery date of 12/28/2021, the only submittals on record are the notice of release and the initial C-141 submittal. OCD had granted a time extension (TE) on 04/26/2022 with the closure report deadline for 05/31/2022. 19.15.29.11 NMAC does allow OCD to grant a TE for good cause justification(s). OCD does not view sampling issues as a valid good cause reason.

Many of the site characterization/assessment data (Form C-141 page 3), such as determining depth to water, especially when OCD is only given an estimation, can be achieved administratively. Therefore, OCD will grant your second TE request with an updated closure report deadline of 07/22/2022 under the conditions that the following information is provided with supporting documentation (19.15.29.11A);

1. Provide as best as possible, the shallowest depth to groundwater beneath the area affected by the release
2. Provide information as to whether the release impacted groundwater or surface water
 - a. groundwater impact may be determined based on research findings and possibly interpreted as having a higher- than-average probability of occurring (e.g. – high volume release, high soil porosity, shallow groundwater).
3. Provide the lateral extents of the release if within 300 feet of a continuously flowing watercourse or any other significant watercourse
4. Provide the lateral extents of the release if within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)
5. Provide the lateral extents of the release if within 300 feet of an occupied permanent residence, school, hospital, institution, or church
6. Provide the lateral extents of the release if 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
7. Provide the lateral extents of the release if within 1000 feet of any other fresh water well or spring
8. Provide the lateral extents of the release if within incorporated municipal boundaries or within a defined municipal fresh water well field
9. Provide the lateral extents of the release if within 300 feet of a wetland
10. Provide the lateral extents of the release if overlying a subsurface mine
11. Provide the lateral extents of the release if overlying an unstable area such as karst geology
12. Provide the lateral extents of the release if within a 100-year floodplain
13. Provide information whether the release impact areas are not on an exploration, development, production, or storage site
14. Provide a scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells if applicable
15. Any field data collected
16. Data table of soil contaminant concentration, if any
17. Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
18. Photographs associated with the release that includes date/time and/or GIS information for the photographs collected
19. Topographic/Aerial maps showing the areal extent of the impacted area
20. Laboratory data including chain of custody if any sampling has been completed
21. 19.15.29 NMAC Table I closure standard determination

The responsible party (RP) has until June 24, 2022 to provide the aforementioned information to fulfill the conditions for the TE request. If OCD has not received this or the final closure report by June 24, 2022, then the RP will be out of compliance with 19.15.29 NMAC and may be subject to civil penalties for Oil and Gas Act violations (part of HB 546).

Upon receipt of the site characterization/assessment information, OCD reserved the right to request additional information if needed (19.15.29.11C).

If you have any questions, please contact me at your earliest convenience. Thank you for your cooperation and diligence regarding this incident.

Nelson Velez • Environmental Specialist - Adv
 Environmental Bureau | EMNRD - Oil Conservation Division
 1000 Rio Brazos Road | Aztec, NM 87410
 (505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
 7:00-11:00 am & 12:00-4:00 pm Fri.

From: Shawna Martinez <shawna@walsheng.net>
Sent: Wednesday, June 8, 2022 8:52 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Thompson, Paul <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Michael Dean <michael.dean@walsheng.net>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good morning Nelson,

Due to sampling issues, we are requesting a time extension until June 29, 2022. Thank you for your consideration on this matter.

Shawna Martinez
 Regulatory Tech
 Walsh Engineering/Epic Energy, LLC
 O: 505-327-4892
shawna@walsheng.net

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Wednesday, May 25, 2022 3:19 PM
To: Shawna Martinez <shawna@walsheng.net>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Shawna,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, notifications for sampling or drilling event(s), and request for time extension(s) or variance(s).

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Shawna Martinez <shawna@walsheng.net>
Sent: Tuesday, May 24, 2022 8:06 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Thompson, Paul <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good Morning All,

I sent out this notification for the wrong day. I do apologize. Epic Energy is providing 72-hour notification for confirmation sampling on the Cowsaround SWD #1 on Thursday, May 26th @ 8:30AM.
Thank You,

Shawna Martinez
Regulatory Tech
Walsh Engineering/Epic Energy, LLC
O: 505-327-4892
shawna@walsheng.net

From: Shawna Martinez
Sent: Friday, May 20, 2022 8:52 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good morning,

Epic Energy is providing 72-hour notification for confirmation sampling on the Cowsaround SWD #1 on Wednesday, May 25th, 2022 @ 1:00PM.

Thank You,

Shawna Martinez
Regulatory Tech
Walsh Engineering/Epic Energy, LLC
O: 505-327-4892
shawna@walsheng.net

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, April 26, 2022 3:07 PM
To: Shawna Martinez <shawna@walsheng.net>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Your time extension request is approved. Please submit the closure report by May 31, 2022.

Again, please keep a copy of this communication for inclusion within the final closure report submittal.

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Shawna Martinez <shawna@walsheng.net>
Sent: Tuesday, April 26, 2022 1:59 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Thompson, Paul <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Nelson,

Due to change in personnel in the Regulatory Department this was not taken care of by the due date of March 29, 2022. We are requesting a time extension until May 29, 2022. Thank you for your consideration on this matter.

Thank You,

Shawna Martinez
Regulatory Tech
Walsh Engineering/Epic Energy, LLC
O: 505-327-4892
shawna@walsheng.net

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, April 26, 2022 1:44 PM
To: Shawna Martinez <shawna@walsheng.net>
Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Shawna,

This correspondence serves as the required notification per 19.15.29.12D (1A) NMAC. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the final closure report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposal and/or final closure reports.

Correspondence required to be included in reports may include, but not limited to, time extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests.

Thanks again.

Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Shawna Martinez <shawna@walsheng.net>

Sent: Tuesday, April 26, 2022 10:51 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Johnson, David <djohnson@slo.state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>

Cc: Thompson, Paul <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Arleen Smith <arleen@walsheng.net>

Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good morning,

Epic Energy is providing 72-hour notification for confirmation sampling on the Cowsaround SWD #1. Epic Energy would like to request a variance in the time and date for the sampling to be on Thursday, April 28, 2022 @ 1:00PM.

Thank You,

Shawna Martinez
Regulatory Tech
Walsh Engineering/Epic Energy, LLC
O: 505-327-4892
shawna@walsheng.net

From: Vanessa Fields <vanessa@walsheng.net>

Sent: Thursday, March 10, 2022 1:53 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Johnson, David <djohnson@slo.state.nm.us>; Nelson.Velez@state.nm.us

Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>; tlong@eprod.com; krysten@advancedwirelessllc.com; Jimmie McKinney <jimmie@walsheng.net>; Shawna Martinez <shawna@walsheng.net>; Arleen Smith <arleen@walsheng.net>

Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Confirmation Sampling Monday March 14, 2022 at 8:30 am

Good afternoon,

Walsh Engineering on behalf of AWC will be collecting final confirmation sampling on the Cowsaround SWD Monday March 14, 2022 at 8:30 am.

Walsh Engineering will follow 19.15.29 when collecting confirmation sampling.

Thank you,

Vanessa Fields
EHS/Regulatory Compliance Manager
Walsh Engineering
O: 505-327-4892
C: 505-787-9100
vanessa@walsheng.net



From: Vanessa Fields

Sent: Wednesday, December 29, 2021 5:28 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Johnson, David <djohnson@slo.state.nm.us>

Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>

Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Tuesday December 28, 2021 3:32 pm

Good evening Cory,

Then initial C-141 was submitted today through E-Permitting.

Have a Happy New Year!

Vanessa Fields

Environmental /Regulatory Compliance Manager

Walsh Engineering

O: 505-327-4892

C: 505-787-9100

vanessa@walsheng.net



From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Sent: Wednesday, December 29, 2021 4:46 PM

To: Vanessa Fields <vanessa@walsheng.net>; Johnson, David <djohnson@slo.state.nm.us>

Cc: Paul Thompson <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>

Subject: RE: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Tuesday December 28, 2021 3:32 pm

Vanessa,

Thank you for the notification please submit a C-141 to the OCD Permitting website and follow 19.15.29 NMAC for remediation.

Cory Smith • Environmental Specialist Supervisor

Environmental Bureau

EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>

From: Vanessa Fields <vanessa@walsheng.net>

Sent: Wednesday, December 29, 2021 11:41 AM

To: Sandoval, Adrienne, EMNRD <Adrienne.Sandoval@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Johnson, David <djohnson@slo.state.nm.us>

Cc: Thompson, Paul <paul@walsheng.net>; John Thompson <john@walsheng.net>; West Hahn <west@walsheng.net>; Vern Andrews <vern@walsheng.net>

Subject: [EXTERNAL] 40 BBL Produced Water Release Cowsaround SWD #001 API 30-045-30096 incident ID (n#) nAPP2136340518, Tuesday December 28, 2021 3:32 pm

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

On Tuesday December 28, 2021 3:32 pm Epic Energy was notified of produced water release at the Cowsaround SWD #001 API 30-045-30096 by a third party (Enterprise). Epic Energy experienced a line malfunction that resulted in a 40 BBL produced water release.

The release resulted in the produced water leaving the facility and traveling onto Enterprise Chaco Plant land. Epic Energy is in coordination with Enterprise to remediate the affected area. Epic Energy immediately mobilized a backhoe to remediate the impacted areas onsite. All standing fluid and contaminated soil is being transported to Envirotech Landfarm.

No injuries and/or illnesses/fire were reported, nor did the produced water enter any watercourses or tributaries.

A initial C-141 will be submitted to the NMOCD E-permitting system today with the following incident number given nAPP2136340518.

Verbal communication was made to NMOCD District III office Cory Smith at 5:53 pm on December 28, 2021.

Please let me know if you should have any questions or concerns.

Thank you,

Vanessa Fields

Environmental /Regulatory Compliance Manager

Walsh Engineering

O: 505-327-4892

C: 505-787-9100

vanessa@walsheng.net



www.walsheng.net

Cowsaround SWD #1
Produced Water Release
Incident# nAPP2136340518
Date -12/28/21

MAPS/PICTURES

Cowsaround SWD #1

AP# 3004530096 Date: 1/17/22

Legend

- Chaco Plant
- Cowsaround SWD Facility
- Cowsaround SWD water line
- Cowsaround SWD Wellhead

Composite Sample #1

Composite Sample #2

Composite samples taken
Appx. every 100sq ft

• SAMPLE LOCATIONS

Composite Sample #3

Composite Sample #4

Cowsaround SWD Facility

Composite Sample #5

Flow line to CA SWD #1 WH

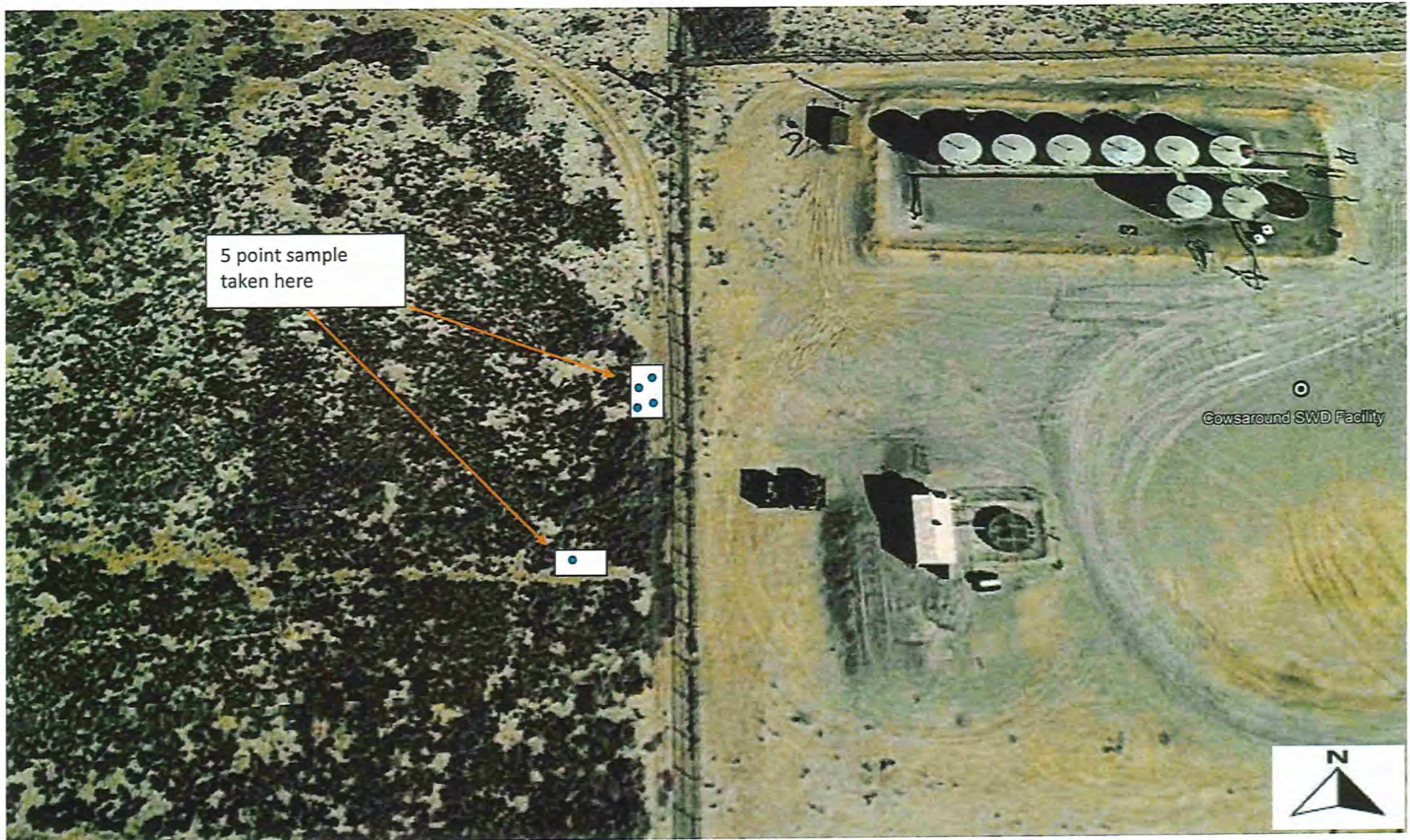
Google Earth

100 ft



Map B

COWSAROUND SWD #1 – API# 30-045-30096
5 POINT SAMPLE TAKEN ON 04-28-2022



Map C



Cowsaround SWD Facility

Sample B5

Sample B4

Sample B3

Sample B2

Sample B1

Sample A2

Sample A1

Sample A3

Sample A4

Sample A5

Composite Sample 2 - LAT	LONG	DEPTH < GL
Sample B5	36.48675	-108.11684 2'-0"
Sample B4	36.48673	-108.11684 3'-0"
Sample B3	36.48668	-108.11685 2'-5"
Sample B2	36.48667	-108.11675 1'-6"
Sample B1	36.48662	-108.11664 1'-0"

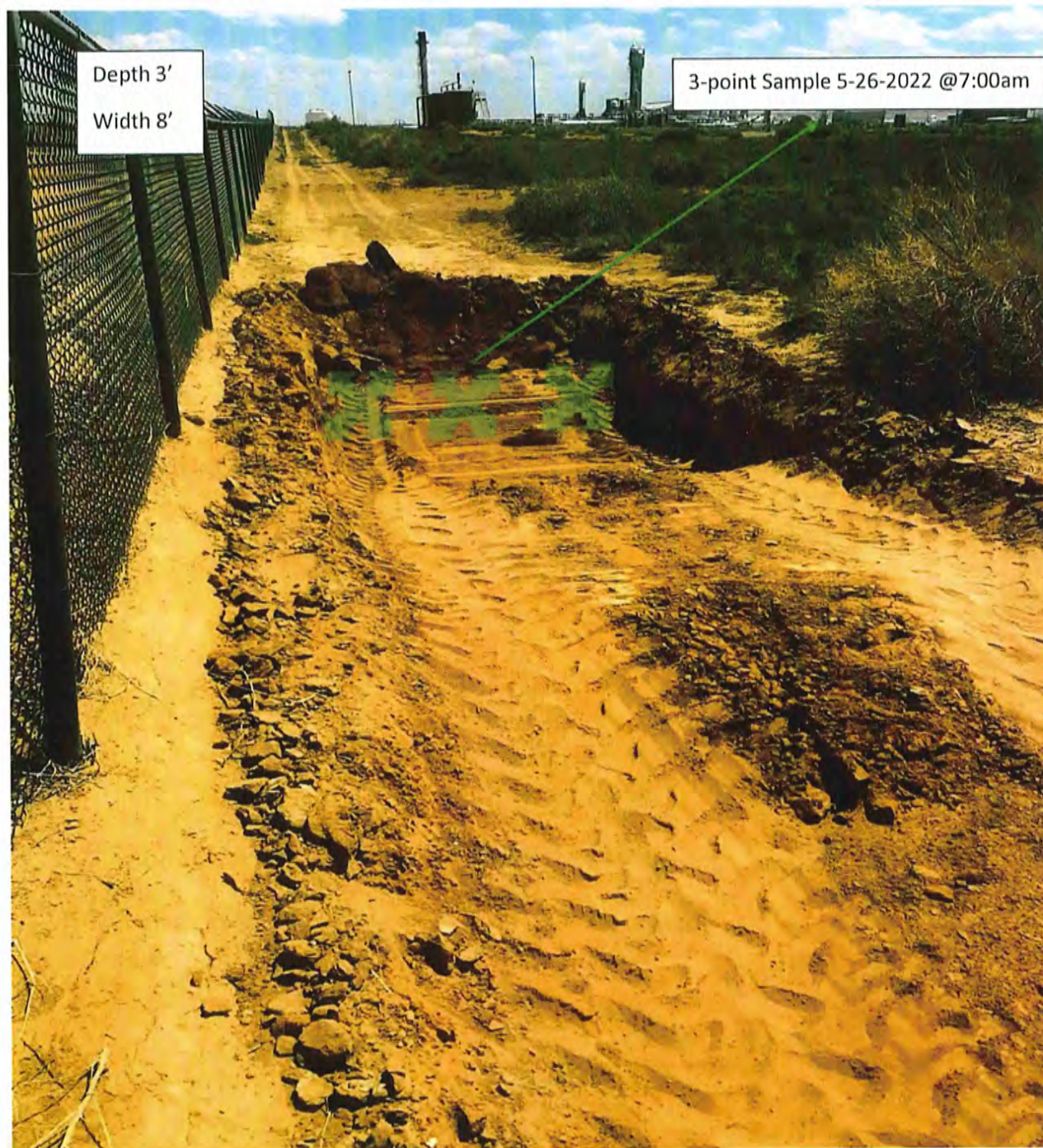
Composite Sample 1 - LAT	LONG	DEPTH < GL
Sample A1	36.48664	-108.11685 3'-0"
Sample A2	36.48657	-108.11694 3'-0"
Sample A3	36.48657	-108.11701 1'-0"
Sample A4	36.48657	-108.11706 2'-0"
Sample A5	36.48656	-108.11713 2'-0"

Google Earth
Earth Point

Imagery Date: 4/6/2019 lat 36.486601° lon -108.116961° elev 6033 ft eye alt 6317 ft

Picture 1

COWSAROUND SWD # 1 30-045-30096



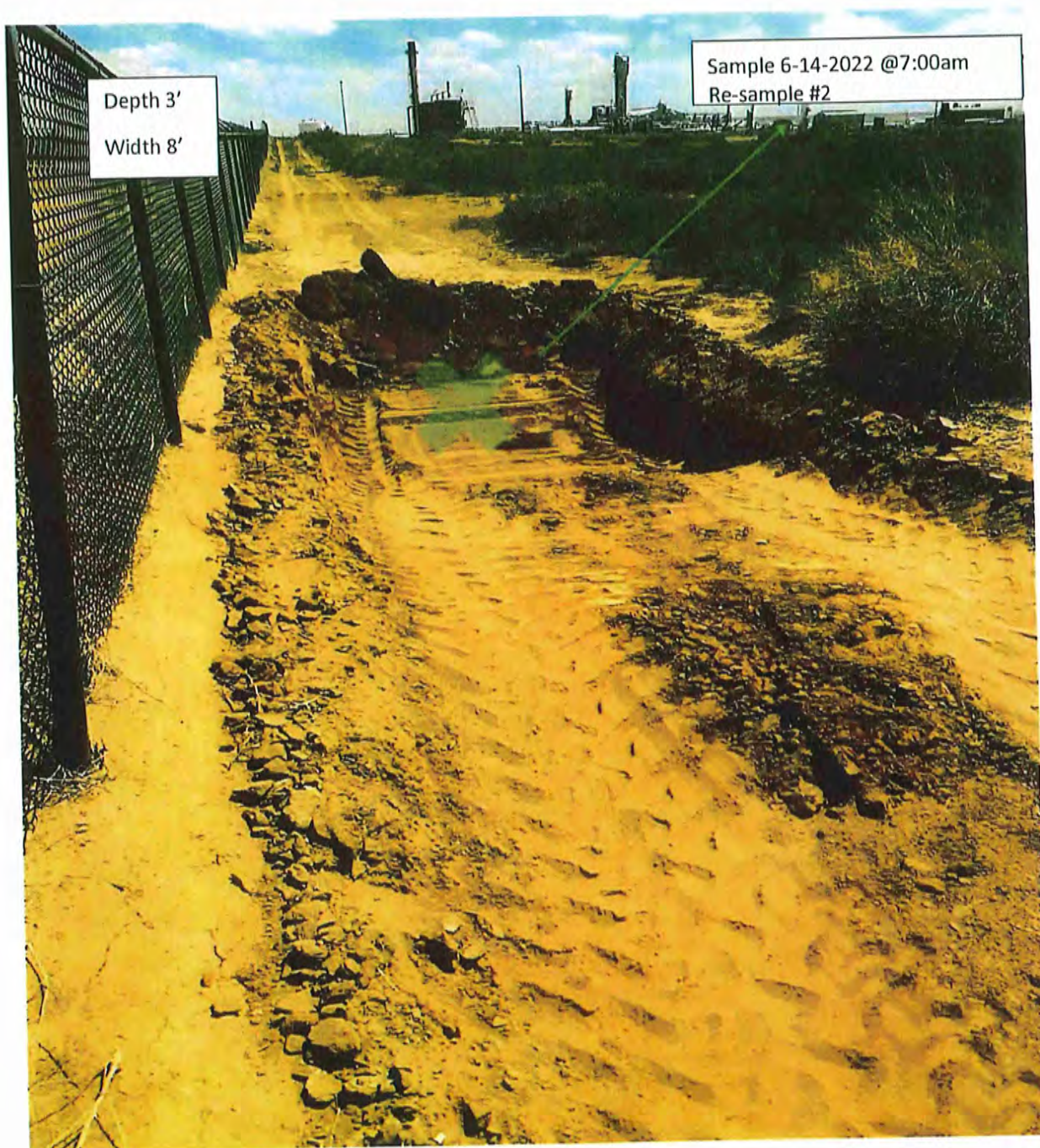
Depth 3'

Width 8'

3-point Sample 5-26-2022 @7:00am

Picture 2

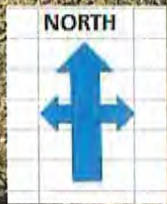
COWSAROUND SWD # 1 30-045-30096



Depth 3'
Width 8'

Sample 6-14-2022 @7:00am
Re-sample #2

Picture 3



Composite sample B5
Depth: 12" 0" below ground level

Composite sample B4
Depth: 14" 0" below ground level

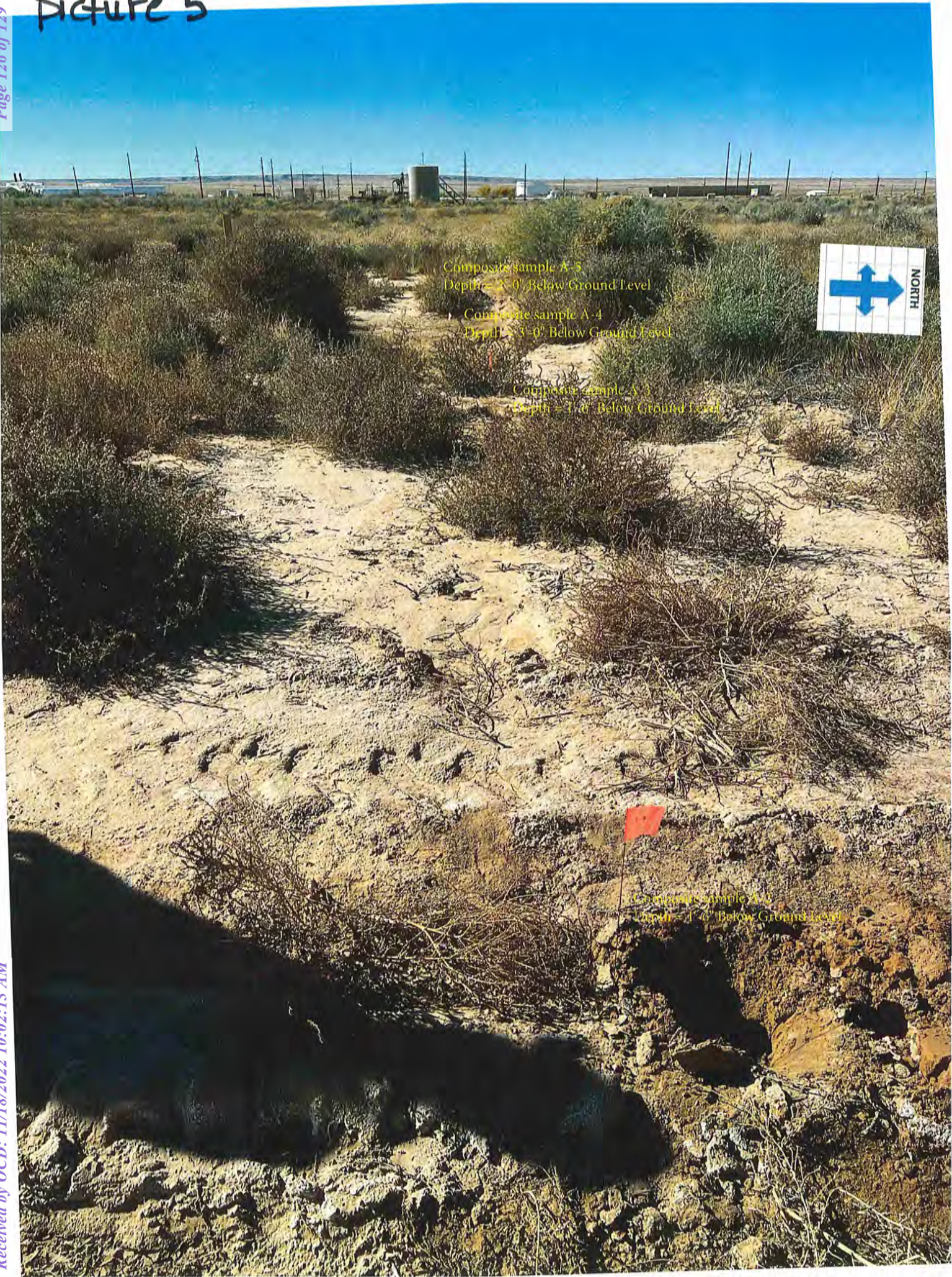
Composite sample B3
Depth: 10" 0" below ground level

Composite sample B2
Depth: 10" 0" below ground level

Picture 4



Picture 5



Composite sample A-5
Depth = 2'-0" Below Ground Level

Composite sample A-4
Depth = 3'-0" Below Ground Level

Composite sample A-3
Depth = 1'-6" Below Ground Level

Composite sample A-2
Depth = 1'-6" Below Ground Level

FIELD COORDINATES

Cowsaround SWD 1

API-30-045-30096

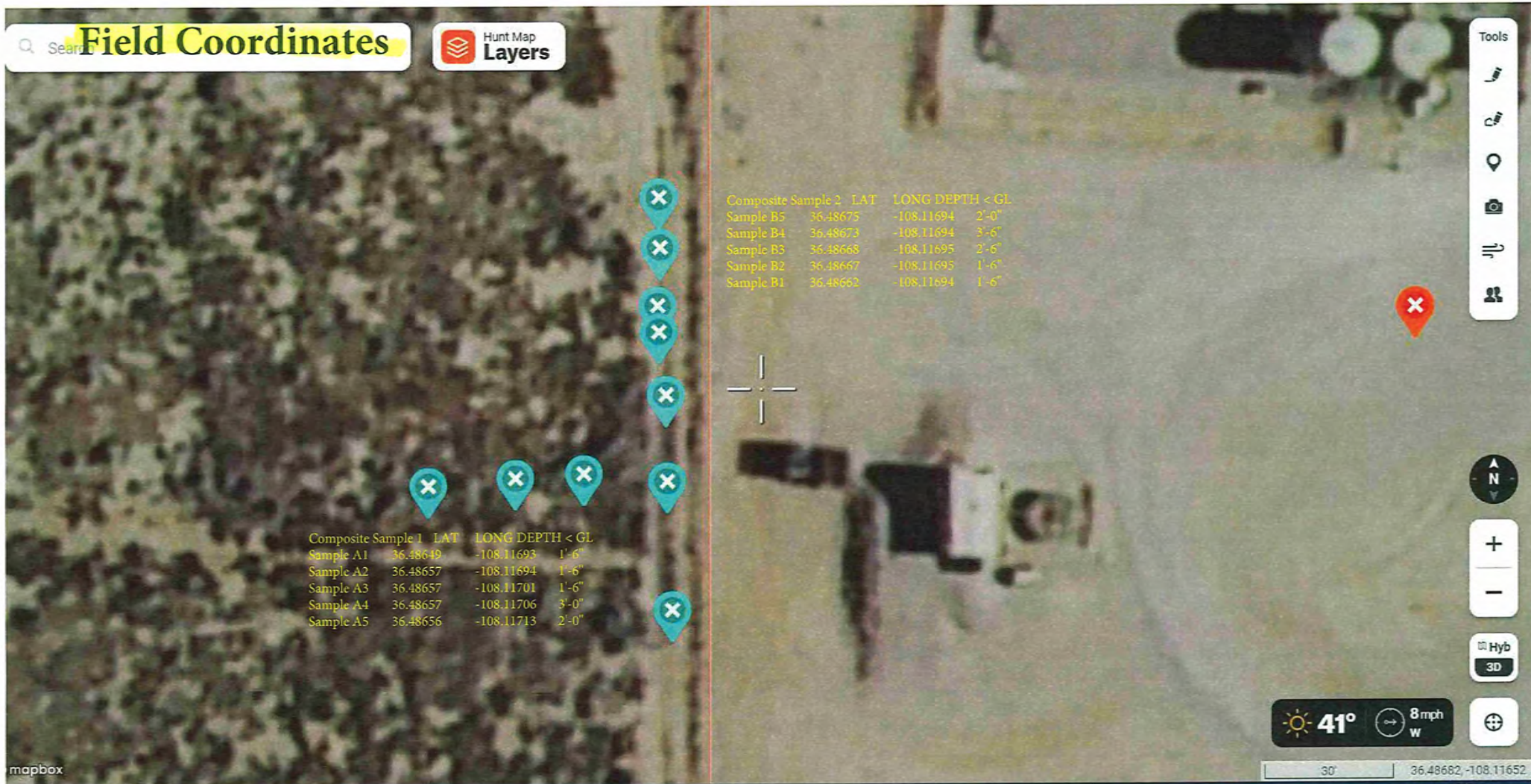
Unit K - S16 - T26N - R12W

11-8-22 Sample Locations

Composite Sample 1	LAT	LONG	DEPTH < GL
Sample A1	36.48649	-108.11693	1'-6"
Sample A2	36.48657	-108.11694	1'-6"
Sample A3	36.48657	-108.11701	1'-6"
Sample A4	36.48657	-108.11706	3'-0"
Sample A5	36.48656	-108.11713	2'-0"

Composite Sample 2	LAT	LONG	DEPTH < GL
Sample B5	36.48675	-108.11694	2'-0"
Sample B4	36.48673	-108.11694	3'-6"
Sample B3	36.48668	-108.11695	2'-6"
Sample B2	36.48667	-108.11695	1'-6"
Sample B1	36.48662	-108.11694	1'-6"

Current Samples taken from 1'-0" below surface of existing soil



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

Action 160026

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 160026
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/8/2022