Delineation Report and Work Plan

Date January, 2014

Smith, Cory, EMNRD

From: Griswold, Jim, EMNRD

Sent: Monday, March 4, 2019 11:19 AM

To: vern@walsheng.net
Cc: Smith, Cory, EMNRD
Subject: Federal I5 Tank Battery

Mr. Andrews,

The Oil Conservation Division (OCD) has reviewed the *Site Characterization and Remediation Workplan at the Federal 15, 18, and 19 Tank Battery* dated November 2018 prepared by Envirotech and hand delivered to the OCD by your attorney, the Gallegos Law Firm, on December 21, 2018. This report deals with OCD incident number nJK1534846034 which apparently occurred during 2015 when Encana Oil & Gas was operating the lease. The characterization portion of the report fulfills the associated requirements of our current spill rule, 19.15.29.11 NMAC, with one significant exception. The vertical extent of hydrocarbon contamination in the vadose zone has not been determined to the required limit of 100 mg/kg. This is noted by Envirotech on page 3 of the report. The stated reason was that a sandstone layer was encountered beneath the tank battery.

Nonetheless, Envirotech proposes to excavate approximately 300 cubic yards of contaminated soils, dispose of the soils at an appropriate waste management facility, sample the sidewalls and base within the excavation to confirm adequate removal, and then backfill the excavation with clean soils. This is a common and straightforward method of corrective action and is hereby approved by the OCD. Envirotech goes on to propose that if a confirmation sample(s) does not meet the regulatory closure criteria, an application of potassium permanganate will be utilized to further remediate in situ. If such an approach is taken, subsequent sampling will be required prior to backfilling to verify the effectiveness of this approach. There will also need to be a demonstration by Epic that the vertical extent of contamination has been determined, i.e. untreated soils with a hydrocarbon concentration of less than 100 mg/kg. As the characterization effort has adequately demonstrated that adsorbed chloride is not a contaminant of further concern due to the relatively low concentrations observed, analysis of the soils during closure sampling does not need to include chloride.

In any future reporting, could you please direct Envirotech to provide the laboratory reporting limit of any analysis in data tables rather than "ND" to represent non-detect. This will facilitate quicker review. Also, the report did not provide the locations of the initial augered borings on the site map. If you have any questions or comments, please feel free to contact me or Cory Smith (cory.smith@state.nm.us phone (505)334-6178 x115).

Jim Griswold

Environmental Bureau Chief
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

505.476.3465

email: jim.griswold@state.nm.us

GALLEGOS LAW FIRM

A Professional Corporation

460 St. Michael's Drive Building 300 Santa Fe, New Mexico 87505 Telephone No. 505-983-6686 Telefax No. 505-986-1367

December 21, 2018 (Our File No. 18-494.00)

J.E. GALLEGOS**

HAND DELIVERED

Jim Griswold
Environmental Bureau Chief
New Mexico Oil Conservation Division
Energy, Minerals, and Natural Resources
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: Incident #nJK1534846034

Release of hydrocarbon by Encana Oil & Gas

Federal I tank battery, Section 21, T23N, R7W Sandoval County, N.M.

Dear Mr. Griswold.

This letter is written on behalf of Epic Energy, LLC regarding the above matter. Encana Oil & Gas Co ("Encana") allowed an oil spill to occur on September 12, 2015 while it was operating the referenced tank battery. Your letter of October 15, 2018 outlines a chronological summary of events revealing multiple legal and regulatory violations by Encana. Your letter concluded "the record does not adequately demonstrate corrective action was undertaken despite Encana's statements to the contrary." This major company not only committed environmental damage it intentionally disregarded its legal obligation, it repeatedly refused the agency requests for a correct C-141, and was untruthful and deceptive. Encana was obligated to remediate the release within 90 days. 19.15.28.8 – 12 NMAC

Epic can only conclude that Encana failed to comply with the remediation obligation and unfortunately the Division failed to enforce that obligation.

Due to absence of enforcement by the Division, our firm is counseling Epic regarding filing an action against Encana pursuant to NMSA 1978 § 70-2-29. Under the statute the court can enjoin complete and effective remediation by Encana. The Division in such case may be substituted as plaintiff or be named as a party plaintiff in the first instance.

Epic has honored the Division's demand to obtain and submit a delineation and remediation plan for the site ("Plan") by today Friday, December 21, 2018. A required

J. Griswold December 21, 2018 Page 2

Plan has been prepared at Epic's request by Envirotech. A copy of the Plan dated December 7, 2018 is here provided.

In submitting the Plan, Epic reserves all rights and waives no claims and defenses. Epic urges the Division to exercise its duty and authority to take necessary action, to cause the Plan to be executed by and at the expense of Encana, the "responsible party." 19.15.29.7 C NMAC

We will be available to answer any questions or to discuss this matter with you or Division attorneys.

Sincerely,

GALLEGOS LAW FIRM, P.C.

J. E. Gallegos

JEG:ac

ec: Cory Smith,

Environmental Specialist Oil Conservation Division Aztec, NM

Paul Thompson President Epic Energy LLC Farmington, NM

Enclosures



December 7, 2018

Project Number: 18012-0004

Mr. Vern Andrews
EPIC Energy
7415 East Main Street
Farmington, New Mexico 87401

Phone: (505) 327-4892 Email: vern@walsheng.net

RE: SITE CHARACTERIZATION AND REMEDIATION WORKPLAN AT THE FEDERAL IS, I8, AND I9 TANK BATTERY, SANDOVAL COUNTY, NEW MEXICO

Dear Mr. Andrews,

Enclosed please find the Site Characterization and Remediation Workplan detailing contaminated soil delineation, site characterization, and corrective action remediation for the Federal I5, I8, and I9 Tank Battery located in Sandoval County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted, ENVIROTECH, INC.

Brittany Hall

Environmental Field Technician

bhall@envirotech-inc.com

Enclosure:

Site Characterization and Remediation Workplan

Cc:

Client File Number 18012

WORKPLAN FOR SOIL REMEDIATION AND RECLAMATION AT THE FEDERAL 15, 18, AND 19 TANK BATTERY

SITE NAME:

FEDERAL I5, I8, AND I9 TANK BATTERY SECTION 21, TOWNSHIP 23N, RANGE 7W SANDOVAL COUNTY, NEW MEXICO

SUBMITTED TO:

MR. CORY SMITH
NEW MEXICO OIL CONSERVATION DISTRICT
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178
(505) 419-2687

SUBMITTED FOR:

Mr. Vern Andrews Walsh Engineering 7415 East Main Street Farmington, New Mexico (505) 327-4892

SUBMITTED BY:

Envirotech, Inc. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615

PROJECT NUMBER: 18012-0004

NOVEMBER 2018



SITE CHARACTERIZATION AND REMEDIATION WORKPLAN AT THE FEDERAL I5, I8, AND I9 TANK BATTERY SANDOVAL COUNTY, NEW MEXICO

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Introduction

Envirotech, Inc. (Envirotech) has been retained by EPIC Energy to perform hydrocarbon contaminated soil delineation and site characterization, as well as a corrective action remediation workplan for the Federal I5, I8, and I9 Tank Battery located at 36.218985, -107.577409, Sandoval County, New Mexico. Envirotech has prepared the following documentation, as requested by EPIC Energy Representative, Mr. Vern Andrews, and as a results of a historic release of an unconfirmed amount of hydrocarbon liquids at the site. This document has been prepared in conformance with the 19.15.29 NMAC.

PURPOSE AND SCOPE OF SERVICES

The purpose of this Site Characterization and Remediation Workplan is to provide the methodology for conducting site delineation activities, including: field sampling and contamination screening, laboratory analysis, soil remediation and reclamation, and reporting of the results.

SITE CHARACTERIZATION AND DELINEATION ACTIVITIES:

SITE CHARACTERIZATION

Prior to performing on-site activities, Envirotech personnel conducted a site characterization in order to determine the appropriate cleanup standard for the site. The results of the site characterization are presented in the summary table below.

Depth to groundwater	>100'
Release impacting groundwater/surface water	NO
Release within 300' of water course	YES
Release within 200' lakebed	NO
Rellease within 300' of residance, school, hosptial, institution, or church	NO
Release within 500' of spring or private domestic water well	NO
Release witin 1000' of any other water well or spring	NO
Release within incorporated municipal boundries or fresh water well field	NO
Release within 300' of wetland	NO
Release overlaying a subsurface mine	NO
Release overlaying unstable area/KARST GEOLOGY	NO
Release in 100 year floodplain	NO

Based on the site characterization and the receptor setbacks listed above, the closure standard for this site was determined to be the most stringent standard listed in *Table 1* of 19.15.29.12 NMAC. The specific closures standard for the contaminants of concern are as follows: Chloride 600 mg/kg, Total Petroleum Hydrocarbons (TPH) (GRO, DRO & MRO) 100 mg/kg, benzene 10 mg/kg, and total BTEX 50 mg/kg.

SITE DELINEATION ACTIVITIES

Prior to performing field activities, a one call utility service locate was initiated in order to locate and mark any underground utilities. Envirotech personnel arrived to the Site on October 16, 2018 to perform spill assessment and delineation activities. The Site assessment and delineation activities included: borehole advancements in to the subsurface, on-site field screening of the contaminated soil for TPH and organic vapors (OV), as well completing soil boring logs to detail the soil characteristics.

Based on previous sampling activities and information provided by EPIC Energy personnel, the impacted area was anticipated to be within the bermed area. Utilizing a hand auger, bore holes were advanced into the sub-surface to collect soil samples from discrete intervals. Upon retrieving the samples, the soil characteristics were logged, and an aliquot of the sample was place into Ziploc bags, allowed to warm up, and screened in the field for OV with a photoionization detector (PID). The remaining sample aliquot was placed into individual laboratory provided four (4) ounce jars in preparation for laboratory analysis. Five (5) bore holes were advanced in the anticipated impacted area; one (1) in the center of the tank battery, and one in each cardinal direction away from the center. Each bore hole was advance to maximum depth of the hand auger (4.5 feet) and samples were collected from the 2 foot and 4.5-foot intervals. Each sample was screened in the field for OV with a PID, the center sample returned results of 28.9 ppm and 264 ppm, respectively for the 2 and 4.5-foot intervals. The west sample returned results of 0.0 ppm and 83.2 ppm, respectively for the 2 and 4.5-foot intervals. The east sample returned results of 12.0 ppm and 12.4 ppm, respectively for the 2 and 4.5-foot intervals. The north sample and south sample returned results of 0.0 ppm at the 2 and 4.5-foot intervals. Additionally, the center sample at 2 feet was screened in the field for TPH using 418.1 to provide a base line TPH concentration, as well as field results to correlate with laboratory analysis.

Each of the samples previously collected into four (4) ounce jars were transported on ice under chain of custody and submitted to Envirotech's Analytical Laboratory to be analyzed for TPH (DRO, GRO, ORO) using USEPA Method 8015D, benzene and total BTEX using USEPA Method 8021B, and Chlorides using USEPA Method 300.0. All the samples analyzed returned results below the closure standards for benzene, total BTEX, and chlorides. The samples collected at Center @ 2' bgs, Center @ 4.5' bgs, West @ 4.5' bgs, and East @ 2' bgs returned results above the regulatory closure standard of 100 mg/kg. Delineation analytical results can be found in Table II, Summary of Analytical Results and Appendix B, Analytical Results.

Based on the analytical results and on-site observations, Envirotech recommend further vertical delineation of the center area and additional vertical and horizontal delineation in the west and east directions.

Prior to Envirotech arrival to the site on November 8, 2018, the one call utility located was renewed and Mr. Cory Smith, NMOCD representative, was notified. Based on the previous recommendations, Envirotech returned to the site to perform additional delineation activities. Utilizing a backhoe, test pits were excavated to fully delineate the western and eastern extents, as well as the center of the impacted area. Additionally, a test pit was excavated at the southernmost point of the historic bermed area, at the request of Walsh Engineering representatives. Due to the placement of the berm, the western sample was taken from just outside of the bermed area. The west test pit was advanced to 7 feet bgs. One (1) sample was collected from the bottom of the test pit (West Bottom) and one (1) composite sample was taken from the wall closest to the berm (West Wall). The east test pit was excavated outside of the bermed area. The test pit was 7 feet east of the berm with a depth of 6 feet 2 inches. One (1) sample was collected from the bottom of the excavation (East Bottom) and one (1) composite sample was taken from the wall closest to the berm (East Wall). The center test pit was advanced to 10 feet 6 inches bgs where a competent sandstone base was encounter and maximum feasible depth was reached. One sample was collected from the bottom of the center test pit. At the request of Walsh Engineering, a test pit was excavated at the southernmost edge of the historical bermed area. The south test pit was 6.5 feet bgs. No contamination was observed, and samples were collected from the bottom of the excavation (South Bottom) and from the wall closest to the berm (South Wall).

All the samples collected were screened in the field for OV using a PID. All the samples with the exception of the center sample returned results of 0.0 ppm OV. The center sample returned results of 0.4 ppm OV at 8 foot and 0.3 ppm OV at 9.5 foot. The samples were then placed into individual laboratory provided four (4) ounce jars, transported on ice under chain of custody, and submitted to Envirotech's Analytical Laboratory to be analyzed for TPH (DRO, GRO, ORO) using USEPA Method 8015D, benzene and total BTEX using USEPA Method 8021B, and Chlorides using USEPA Method 300.0. All samples collected returned results below the regulatory closure standards for all constituents analyzed with the exception of TPH at the *Center* sample at 10'6" bgs.

Based on the on-site observation and analytical results the impacted area is determined to be approximately 46 feet north to south and 36 feet east to west with a depth ranging from 1 foot to 10 feet 6 inched bgs. The estimated in-place impacted soil volume is 300 cubic yards. Envirotech recommends excavation of the impacted soil, collecting composite closure samples of the walls and base of the excavation, disposing of the impacted soil at a permitted remediation facility, backfilling with clean BLM/NMOCD approved soil and recontorting to pre-incident conditions.

REMEDIATION PLAN

The corrective action to address the hydrocarbon impacted soil will be to excavate the contaminated soil, dispose of at an appropriate permitted facility and backfill with clean soil. The process is commonly referred to as a "Dig and Haul". On-site activities will not commence without the approval of NMOCD. Prior to performing on-site activities, a one call utility locate will be initiated to located and mark underground utilities. Preliminary on-site activities will include shutting in the location and performing an energy isolation LOTO. The applicable flow lines and tanks will be removed from the area of anticipated activity.

Upon completing site preparations, the impacted soil will be mechanically excavated with a tracked excavator. The estimated in-place volume of contaminated soil is 300 c/y and will likely result in 400 c/y of material being transported and disposed. Upon commencement of the excavation activities, an environmental field technician will be on site to perform periodic soil screening activities. The soil screening activities will include TPH and OV field screening. The on-site soil screening will assist in guiding and directing the excavation process. The excavated soil will be stock piled and loaded onto dump trucks for transportation to Envirotech's NMOCD permitted soil remediation facility, *Landfarm #2* (Permit #: NM 01-0011). The dump trucks will also transport BLM certified weed-free clean soil back to the Site. Each load of contaminated soil and clean fill soil will be logged on a Bill of Lading (BOL) for documentation of disposal and to calculate total volumes.

Upon the walls and base of the excavation retuning field screening results with-in acceptable levels, composite closure samples will be collected to verify the site has been remediated. In accordance with 19.15.29.12 NMAC, the district NMOCD office will be notified two (2) business days prior to performing any confirmation sampling activities. Closure samples will be collected from each wall and the base of the excavation, each sample will be less than 200 ft². If a wall or base is in exceedance of 200 ft², an additional sample will be collected. Additionally, if any discolored or wet areas are observed, an individual grab sample will be collected from the area.

Each closure sample will be divided into two (2) aliquots, one (1) will be collected into laboratory provided 4-ounce glass jars capped headspace free, labeled, and stored in an ice chest, in preparation for laboratory analysis and the other aliquot will be used for field screening activities. The field screening activities will include TPH using USEPA Method 418.1 and OV using a PID. The filed screening results will be documented on filed sheets and enclosed within the final report.

The samples previously collect in the four (4) ounce jars will be delivered under chain of custody to Envirotech's Laboratory to be analyzed for TPH using USEPA method 8015D, benzene and total BTEX using USEPA Method 8021B, and Chlorides using USEPA

Page 5

method 300.0. The results of the analysis will be compared against the most stringent standards of *Table I* of 19.1529.12 NMAC.

In the event that a sample does not meet the closure criteria for TPH, benzene or total BTEX, and the affected area has been excavated to maximum feasible extents, a potassium permanganate solution will be applied to the affected area as an *in-situ* remediation alterative.

Upon all samples meeting the required closure standard the excavation will be backfilled, re-contoured and the surface equipment will be re-installed.

FINAL CLOSURE

A report documenting the onsite activities will be prepared and submitted to the NMOCD following the completion of the soil remediation and reclamation activities. The report will include details of all activities performed, volume of material removed, disposal documentation, and laboratory analysis. The final report will include a chronological narrative with description of activities performed, 7.5 Minute US Topographical Vicinity Map, Site Maps, Summary of Analytical Results, Analytical Results, Field Notes, and Bill of Lading. One (1) digital copy of the report will be submitted to the NMOCD and one (1) copy will be submitted to the Epic Energy. Hard copies will be furnished upon request.

CLOSURE AND LIMITATIONS

The scope of Envirotech's services will be limited to project management, monitoring, analysis, soil remediation activities, and reporting for the Federal I5, I8, and I9 Tank Battery located at 36.218985, -107.577409, Sandoval County, New Mexico. All work will be performed in accordance with generally accepted practices in geotechnical, hydrogeological, environmental, and petroleum engineering.

Envirotech, Inc. will not perform work beyond the scope of services outlined herein without first obtaining approval from the Responsible Party and the NMOCD.

Respectfully Submitted,

ENVIROTECH, INC.

Brittany Hall

Environmental Field Technician

bhall@envirotech-inc.com

Reviewed by:

Felipe Aragon, CHMM, CH

Environmental Assistant Manager

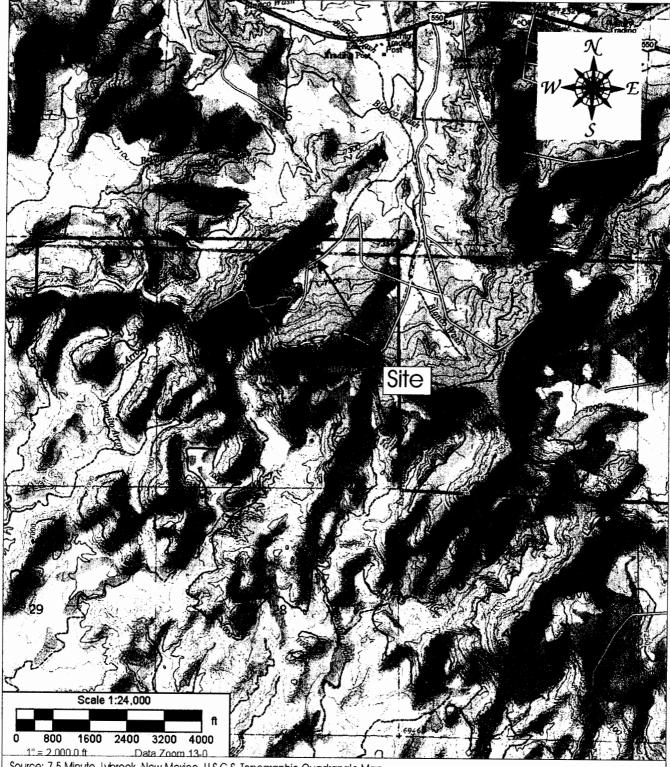
faragon@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map
Figure 2, Site Map
Figure 3, Cross Section Map



Practical Solutions for a Better Tomorrow



Source: 7.5 Minute, Lybrook, New Mexico U.S.G.S. Topographic Quadrangle Map Scale: $1:24,000 \quad 1" = 2000'$

Epic Energy Federal I5, I8, and I9 Tank Battery Section 32, Twp 23N, Range 7W

Section 32, Twp 23N, Range 7W Sandoval County, New Mexico

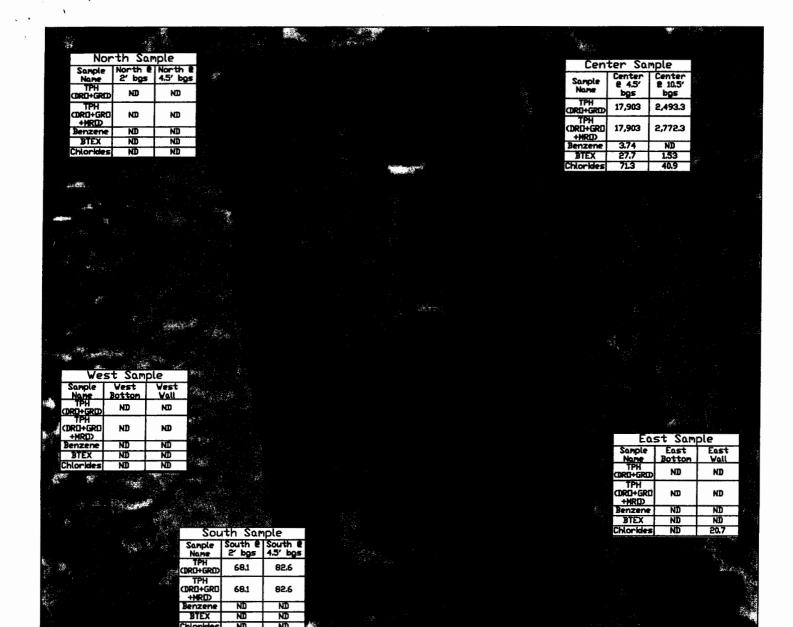
Project Number: 18012-0004 | Date Drawn: 11/21/2018



5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615 Vicinity Map

Figure #1

DRAWN BY: Brittany Hall PROJECT MANAGER: Felipe Aragon



LEGEND

X Sampling Locations

North Sample (36.218892, -107.577691)

West Sample (36.218857, -107.577744)

South Sample (36.218763, -107.577674)

East Sample (36.218862, -107.577565)

Center Sample (36.218708, -107.577739)

SITE MAP EPIC PRODUCTION

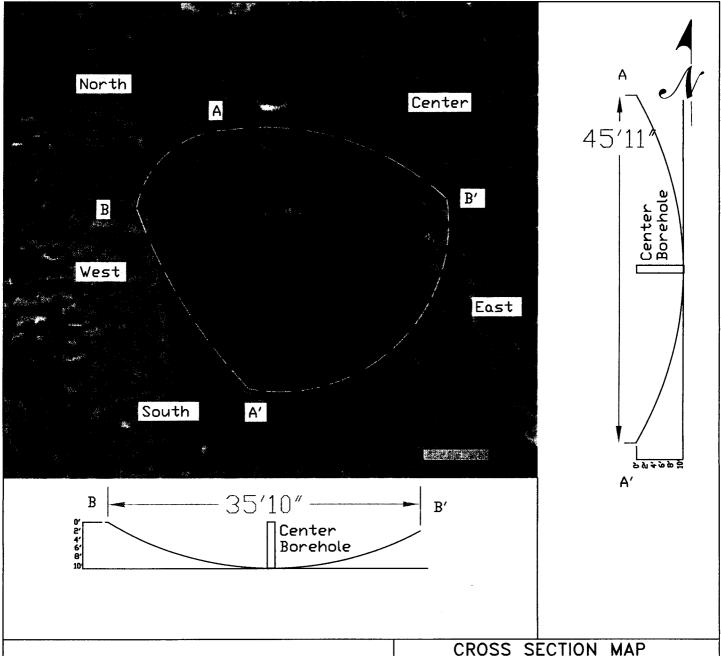
FEDERAL 1-5, 1-8, 1-9 TANK BATTERY SECTION 21, TWP 23 NORTH, RANGE 7 WEST SANDOVAL COUNTY, NEW MEXICO

SCALE: 1"=12"

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			REVIS	ONS				
NO.	DATE	BY		DES	CRIPTIC	N		
MAP	DRWN	BH	11/5/18	BASE	DRWN	BH	11/	5/18



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



LEGEND

X Sampling Locations

Impacted Area

CROSS SECTION MAP EPIC PRODUCTION

FEDERAL I-5, I-8, I-9 TANK BATTERY
SECTION 21, TWP 23 NORTH, RANGE 7 WEST
SANDOVAL COUNTY, NEW MEXICO

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5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

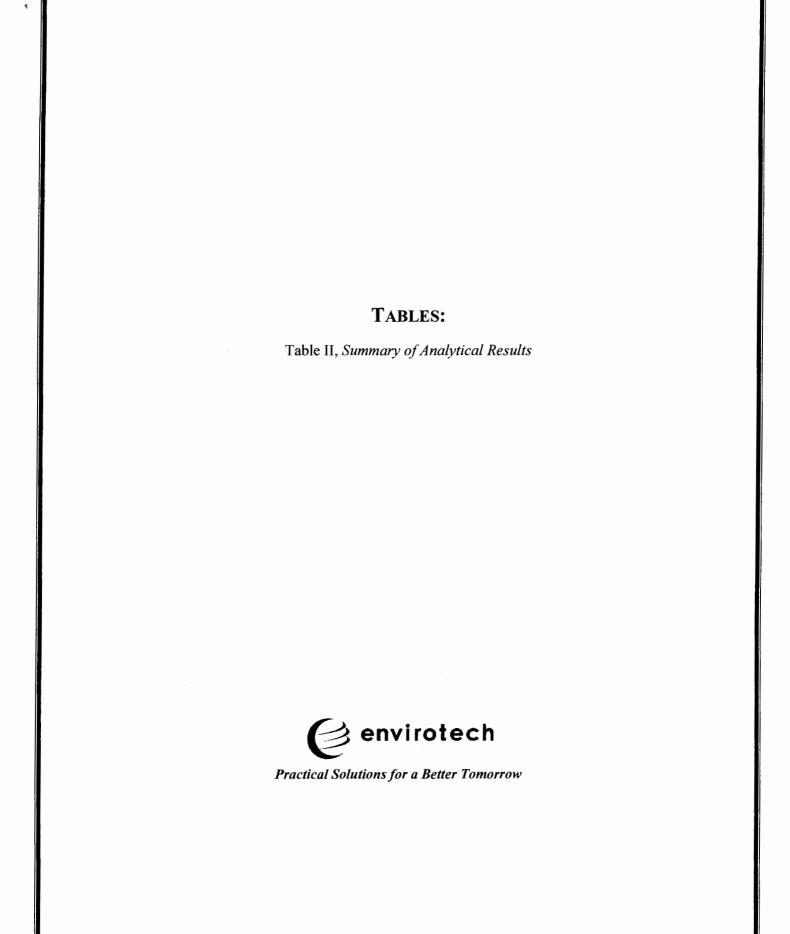


Table 1, Summary of Analytical Results Epic Energy Site Assessment/Delineation Federal 15, 18, and 19 Tank Battery Project Number: 18012-0004

			Contaminan	t of Concern	
Sample Description	Date	TPH (GRO+DRO+MRO)	Benzene	Total BTEX	Chlorides
New Mexico Oll Conservation Division (NMOCD) Allowable Concentrations	. NA	igo mg/Kg	10 mg/Kg	4 250 mg/kg	- 500 mg/kg
Center @ 2' bgs	10/16/2018	722	ND	ND	44.4
Center @ 4.5' bgs	10/16/2018	17,903	3.74	27.7	71.3
West @ 2' bgs	10/16/2018	ND	ND	ND	ND
West @ 4.5' bgs	10/16/2018	7,439	0.544	3.54	ND
East @ 2' bgs	10/16/2018	213	ND	ND	193
East @ 4.5' bgs	10/16/2018	ND	ND	ND	214
North @ 2' bgs	10/16/2018	ND	ND	ND	ND
North @ 4.5' bgs	10/16/2018	ND	ND	ND	ND
South @ 2' bgs	10/16/2018	68.1	ND	ND	ND
South @ 4.5' bgs	10/16/2018	82.6	ND	ND	ND
West Bottom @7' bgs	11/8/2018	ND	ND	ND	ND
West Wall	11/8/2018	ND	ND	ND	ND
South Bottom @ 6.5' bgs	11/8/2018	ND	ND	ND	ND
South Wall	11/8/2018	ND	ND	ND	ND
East Bottom @ 6'2" bgs	11/8/2018	ND	ND	ND	ND
East Wall	11/8/2018	ND	ND	ND	20.7
Center @ 10.5' bgs	11/8/2018	2,772.30	ND	1.53	40.9

^{*} NS - Parameter not screened

^{*} ND - Parameter not detected

^{*} BOLD - Parameter above NMOCD regulatory limit

APPENDICES:

Appendix A, Field Notes

Appendix B, Laboratory Results

Appendix C, Soil Boring Lithology Logs



CLIENT:	pic &	mergy.					Envmti. Sp	oclst:	Blace
CLIENT/JOB#:	18012	-0004	10	envi	rotec	h	C.O.C. No:		
START DATE:	10/16/	15			5 (800) 362-		LAT		
FINISH DATE:			5796	U.S. Hwy 64	, Farmington, N	M 87401	LONG		
Page #		of							
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NMOCD Ranking:			_	Depth to	GW:		WH Protec	tion Area:	No Yes
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	County:	sandova	.1		State: N W	1	1		
Cause of Release:				Material R	eleased:		Amt. Released:		
QUAD/UNIT:		SEC:		TWP:		RNG:		PM:	
Wellhead Lat/Long:			Land J	urisdiction:	-		QTR Footag	ge:	
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Excavation Approx:		FT. X		FT. X		FT.	Cubic Yarda	ige:	
Disposal Facility:					Remediaton N	Method:			
and Use:									
					.1 ANLAYSI	IS			
		TIME	SAMPLE I.D.		WEIGHT (g)	mL FREON	DILUTION	READING	
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	2.0	· · · · · · · · · · · · · · · · · · ·				5			

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed. edge of resolution or original 'محہ WI wind ships ا8) ند N-5 = ~ 75 6 **EXCAVATION PROFILE:** (Z const = 15 N of Southern Center to south = 28% Center =-4.5 by North = 5 bys 645+ = 5 = 55 West = 44 = 555 Seith = 5' 673 Include number of samples and borings taken, and screening types completed. NOTES: Describe spill in narrative format including amount, source and type of product.

Who Ordered/Site Rep:

WO #:

CLIENT:	Epic 6	nezy					Envmtl. Sp	clst:	
	18012-		0	anvii	rotec	h	C.O.C. No:		
	818111				6 (800) 362-1		LAT		
FINISH DATE:			5794	U.S. Hwy 64,	Farmington, NJ	H 87401	LONG		
Page #		of							
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NMOCD Perkins				Depth to	and the second section of the second section of the second	and the comment of the same of	WH Protec	tion Arons	No Yes
NMOCD Ranking:	Gu I		•	-			. WH Flotec	uon Area.	
NMOCD TPH Closu LOCATION:		a-k Beller		Distance to		9		API:	
	County:				State:	•			
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QUAD/UNIT:				•		. KNO:			
Wellhead Lat/Long:			Land J	urisdiction:			QTR Footag	ge:	
Spill Located Approx	imately:		FT.		FROM				
Excavation Approx:		FT. X		FT. X		FT.	Cubic Yarda	ige:	
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Land Use:				Lease:			Land Owner	:	
				IELD 418.	1 ANLAYSI				1
SAMPLE DESCRIP		TIME	SAMPLE I.D.		WEIGHT (g)	mL FREON	DILUTION	READING	
Stad 20	υ,	1300			. •				136
Center @ a.s	5'	305						309	1236
			· · ·						
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								-	
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	F: 14 Y 4	OVM R		Field Heads	PID ()	<u> </u>	Lab Testir		
Sample ID		space PID (ppm)	Sample ID.		pace PID (ppm)	Sample ID		Analysis Typ	
west war	0.0		and will	0.00		West W		8021 8	IM ICI
South Sottom	0.0					South B			
So the lease	0.0					South			
Anter	0.4					center	(da.51)		
Conser @ a.5 6	0.2	2				East 60	tton		
Gast botten	0.0)				Eart	wall	ملد	

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed. **EXCAVATION PROFILE:** Include number of samples and borings taken, and screening types completed. NOTES: Describe spill in narrative format including amount, source and type of product. Who Ordered/Site Rep: WO #:



Analytical Report

Report Summary

Client: Epic Energy

Chain Of Custody Number:

Samples Received: 10/18/2018 1:27:00PM

Job Number: 18012-0004 Work Order: P810099

Project Name/Location: Soil Sampling @ Federal I

5,8,9 Tank Battery

Report Reviewed By:	Walter Hinken	Date:	10/26/18	
	Walter Hinchman, Laboratory Director			
		Date:	10/26/18	
	Tim Cain Project Manager			



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted 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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 10/26/18 16:47

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Center @ 2' bgs	P810099-01A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-01B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
West @ 2' bgs	P810099-02A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-02B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
West @ 4.5' bgs	P810099-03A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-03B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
Center @ 4.5' bgs	P810099-04A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-04B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
East @ 2' bgs	P810099-05A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
East @ 4.5' bgs	P810099-06A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
South @ 2' bgs	P810099-07A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
South @ 4.5' bgs	P810099-08A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
North @ 2' bgs	P810099-09A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
North @ 4.5' bgs	P810099-10A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

CHALSIS AT DECEMBER



Epic Energy
7415 East Main
Farmington NM, 87402

Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

Project Number: 1: Project Manager: F

18012-0004 Felipe Aragon Reported: 10/26/18 16:47

Center @ 2' bgs P810099-01 (Solid)

		70100))-UI (St	,,,,,					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-	-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	653	25.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Oil Range Organics (C28-C40+)	68.5	50.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	50-	-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		134 %	50	-200	1843003	10/22/18	10/23/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	44.4	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 10/26/18 16:47

West @ 2' bgs P810099-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	50-	150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		130 %	50-	200	1843003	10/22/18	10/23/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	



Epic Energy Project Name: Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Project Number: 18012-0004 Reported:
Farmington NM, 87402 Project Manager: Felipe Aragon 10/26/18 16:47

West @ 4.5' bgs P810099-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021					·				
Benzene	544	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Toluene	248	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Ethylbenzene	493	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
p,m-Xylene	1600	200	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
o-Xylene	654	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Total Xylenes	2260	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Total BTEX	3540	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1842033	10/19/18	10/25/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	21.0	20.0	mg/kg	1	1842033	10/19/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	6890	250	mg/kg	10	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	528	500	mg/kg	10	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50	-150	1842033	10/19/18	10/25/18	EPA 8015D	
Surrogate: n-Nonane		297 %	50	-200	1843003	10/22/18	10/25/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	, -



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 10/26/18 16:47

Center @ 4.5' bgs P810099-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	3740	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	11200	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	2180	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	7460	200	ug/kg	I	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	3050	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	10500	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	27700	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	103	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	17800	2500	mg/kg	100	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	5000	mg/kg	100	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-	150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		%	50-	200	1843003	10/22/18	10/25/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	71.3	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	



Epic Energy 7415 East Main Soil Sampling @ Federal I 5,8,9 Tank Battery

Project Number: 18012-0004
Project Manager: Felipe Aragon

Project Name:

Reported: 10/26/18 16:47

Farmington NM, 87402 Project Manager:

East @ 2' bgs P810099-05 (Solid)

		Reporting	<u> </u>	<u> </u>					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1	150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	213	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	i	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	50-1	150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		138 %	50-2	200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	193	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Farmington NM, 87402

Project Number: Project Manager: 18012-0004

Felipe Aragon

Reported: 10/26/18 16:47

East @ 4.5' bgs P810099-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1 .	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.5 %	50-1	150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		135 %	50-2	200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300,0/9056A									
Chloride	214	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number:

18012-0004

Project Manager:

Felipe Aragon

Reported: 10/26/18 16:47

South @ 2' bgs P810099-07 (Solid)

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	68.1	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	50-	-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		137 %	50-	-200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported:

Farmington NM, 87402

Project Manager:

Felipe Aragon

10/26/18 16:47

South @ 4.5' bgs P810099-08 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1	50	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	82.6	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: I-Chloro-4-fluorobenzene-FID		99.4 %	50-1	50	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		137 %	50-2	00	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported:

Farmington NM, 87402

Project Manager:

Felipe Aragon

10/26/18 16:47

North @ 2' bgs P810099-09 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: I-Chloro-4-fluorobenzene-FID		98.4 %	50-	150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		139 %	50-2	200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A						***			
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

1842033

1843003

1843013

10/19/18

10/22/18

10/24/18

10/23/18

10/25/18

10/25/18

EPA 8015D

EPA 8015D

EPA

300.0/9056A

7415 East Main

Farmington NM, 87402

Surrogate: 1-Chloro-4-fluorobenzene-FID

Surrogate: n-Nonane

Chloride

Anions by 300.0/9056A

Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 10/26/18 16:47

North @ 4.5' bgs

		P8100	99-10 (Sol	lid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021							<u>.,</u>		
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	V. S.	105 %	50-1	150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	I	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	

50-150

50-200

mg/kg

99.4 %

139 %

20.0

ND



Epic Energy 7415 East Main Farmington NM, 87402 Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 10/26/18 16:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting	** *	Spike	Source	A/F==	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1842033 - Purge and Trap EPA 50	30A									
Blank (1842033-BLK1)				Prepared: 1	0/19/18 1 A	Analyzed: 1	0/23/18 0			
Benzene	ND	100	ug/kg							
Toluene	ND	100	#							
Ethylbenzene	ND	100	н							
p,m-Xylene	ND	200	н							
o-Xylene	ND	100	N							
Total Xylenes	ND	100	**							
Total BTEX	ND	100	H							
Surrogate: 4-Bromochlorobenzene-PID	8410		,,	8000	-	105	50-150			
LCS (1842033-BS1)				Prepared: 1	0/19/18 1 4	Analyzed: 1	0/23/18 0			
Benzene	5450	100	ug/kg	5000		109	70-130			
Toluene	5480	100	"	5000		110	70-130			
Ethylbenzene	5550	100	**	5000		111	70-130			
p,m-Xylene	11300	200	**	10000		113	70-130			
o-Xylene	5490	100	**	5000		110	70-130			
Total Xylenes	16800	100	н	15000		112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8440		"	8000		106	50-150			
Matrix Spike (1842033-MS1)	Sour	ce: P810099-	01	Prepared: 1	0/19/18 1 A	Analyzed: 1	0/23/18 0			
Benzene	5340	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5320	100	"	5000	ND	106	61.4-130			
Ethylbenzene	5490	100	**	5000	ND	110	61.4-133			
p,m-Xylene	11100	200	•	10000	ND	111	63.3-131			
o-Xylene	5420	100	"	5000	ND	108	63.3-131			
Total Xylenes	16500	100	**	15000	ND	110	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8470		"	8000		106	50-150			
Matrix Spike Dup (1842033-MSD1)	Sour	ce: P810099-	01	Prepared: 1	0/19/18 1 A	nalyzed: 1	0/25/18 0			
Benzene	5220	100	ug/kg	5000	ND	104	54.3-133	2.24	20	
Toluene	5220	100		5000	ND	104	61.4-130	1.91	20	
Ethylbenzene	5360	100		5000	ND	107	61.4-133	2.39	20	
p,m-Xylene	10900	200	"	10000	ND	109	63.3-131	2.03	20	
o-Xylene	5280	100	**	5000	ND	106	63.3-131	2.69	20	
Total Xylenes	16200	100	"	15000	ND	108	63.3-131	2.25	20	

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5796 US Highway 64, Farmington, NM 87401

Surrogate: 4-Bromochlorobenzene-PID

Ph (505) 632-0615 Fx (505) 632-1865

8000

103

50-150

envirotech-inc com



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number: Project Manager: 18012-0004

Reported:

Farmington NM, 87402

r: Felipe Aragon

10/26/18 16:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1842033 - Purge and Trap EPA 5030A										
Blank (1842033-BLK1)				Prepared: 1	10/19/18 1 <i>A</i>	Analyzed: 1	0/23/18 0			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg					· · ·		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		"	8.00		98.7	50-150		-	
LCS (1842033-BS2)				Prepared: 1	0/19/18 1 A	Analyzed: 1	0/23/18 0			
Gasoline Range Organics (C6-C10)	50.6	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		"	8.00		99.7	50-150			
Matrix Spike (1842033-MS2)	Sou	rce: P810099-	01	Prepared: 1	0/19/18 1 <i>A</i>	Analyzed: 1	0/23/18 0			
Gasoline Range Organics (C6-C10)	57.4	20.0	mg/kg	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			
Matrix Spike Dup (1842033-MSD2)	Sou	rce: P810099-	01	Prepared: 1	0/19/18 1 A	Analyzed: 1	0/23/18 0			
Gasoline Range Organics (C6-C10)	57.1	20.0	mg/kg	50.0	ND	114	70-130	0.514	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		"	8.00		99.0	50-150			



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported: 10/26/18 16:47

Farmington NM, 87402

Project Manager: Felipe Aragon

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1843003 - DRO Extraction EPA 3570										
Blank (1843003-BLK1)				Prepared:	10/22/18 0	Analyzed: 1	0/23/18 2			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0								
Surrogate: n-Nonane	61.3		"	50.0		123	50-200			
LCS (1843003-BS1)				Prepared:	10/22/18 0	Analyzed: 1	0/23/18 2			
Diesel Range Organics (C10-C28)	458	25.0	mg/kg	500		91.6	38-132			
Surrogate: n-Nonane	59.3		"	50.0		119	50-200			
Matrix Spike (1843003-MS1)	Sou	rce: P810099-	01	Prepared:	10/22/18 0 A	Analyzed: 1	0/23/18 2			
Diesel Range Organics (C10-C28)	1140	25.0	mg/kg	500	653	96.6	38-132	-		
Surrogate: n-Nonane	64.2		"	50.0		128	50-200			
Matrix Spike Dup (1843003-MSD1)	Sou	rce: P810099-	01	Prepared: 1	10/22/18 0 /	Analyzed: 1	0/23/18 2			
Diesel Range Organics (C10-C28)	1170	25.0	mg/kg	500	653	103	38-132	2.59	20	
Surrogate: n-Nonane	65.6		"	50.0		131	50-200			



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004

Felipe Aragon

Reported:

10/26/18 16:47

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1843013 - Anion Extraction EPA 300).0/9056A									
Blank (1843013-BLK1)				Prepared:	10/24/18 0 2	Analyzed: 1	0/24/18 1			
Chloride	ND	20.0	mg/kg							
LCS (1843013-BS1)				Prepared: 1	10/24/18 0 A	Analyzed: 1	0/24/18 1			
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1843013-MS1)	Sour	ce: P810092-	01	Prepared: 1	10/24/18 0 /	Analyzed: 1	0/24/18 1			
Chloride	259	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1843013-MSD1)	Sour	ce: P810092-	01	Prepared: 1	0/24/18 0 A	Analyzed: 1	0/24/18 1			
Chloride	259	20.0	mg/kg	250	ND	104	80-120	0.0926	20	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported:

Farmington NM, 87402

Project Manager: Felipe Aragon

10/26/18 16:47

Notes and Definitions

Surr2

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in

the sample extract.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

**

Methods marked with ** are non-accredited methods.

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Page 17 of 18

Project	Information	on				Chair	n of Custody											•	age	of
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Project: S	ه ومناجسته ۵	Fiden!	L 6,8,6	1 Tourk b	-Hey	Report due by:			WO					14500 00		1D	3D	RCRA	CW	A SDWA
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Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D		Lab Number	8015	8260	GPA 2189	RCRA 8 Metals	TDS/TSS	8	Oil and Grease	3,845	60%			R	emarks
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Addition	nal Instruct	tions:																		
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i, (field sampl considered fr	ler), attest to the aud and may be (validity and a grounds for le	uthenticity of gal action. Sa	this sample mpled by:	om aware the	t tampering with or intentionally mislabel A Hau	lling the sample location, da —	te or t	ime of	collecti									C on subsequ	
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	trix: S - Soil, Sd						Container													
						r arrangements are made. Hazardo							the c	lient e	xpens	e. The	e repor	t for the a	nalysis of t	he above
samples is a	pplicable only	to those san	nples receiv	ed by the la	boratory with	this COC. The liability of the labor	aotry is limited to the ar	noun	t paid i	ror on	the re	eport.								1

5796 US Highway 64, Farmington, HM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech Analytical Laboratory



Analytical Report

Report Summary

Client: Epic Energy

Chain Of Custody Number:

Samples Received: 11/9/2018 9:59:00AM

Job Number: 18012-0004 Work Order: P811031

Project Name/Location: Soil Sampling @ Federal I

5,8,9 Tank Battery

Report Reviewed By:	Walter Hindun	Date:	11/15/18	
	Walter Hinchman, Laboratory Director	_		
		Date:	11/15/18	
	Tim Cain, Project Manager	_		



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 11/15/18 15:24

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Bottom	P811031-01A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-01B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
West Wall	P811031-02A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-02B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
South Bottom	P811031-03A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-03B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
South Wall	P811031-04A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-04B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
East Bottom	P811031-05A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-05B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
East Wall	P811031-06A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-06B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
Center	P811031-07A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-07B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported:

Farmington NM, 87402 Project Manager:

Felipe Aragon

11/15/18 15:24

West Bottom P811031-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	l	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	l	1846004	11/12/18	11/13/18	ÉPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	50	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-1	50	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		88.3 %	50-2	200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A	***************************************								
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 11/15/18 15:24

West Wall P811031-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021							**********		
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50	-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.9 %	50-	-200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number: Project Manager: 18012-0004

Reported:

Farmington NM, 87402

Felipe Aragon

11/15/18 15:24

South Bottom P811031-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								·	
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1.	50	1846004	11/12/18	11/13/18	EPA 8021B	-
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	l	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: I-Chloro-4-fluorobenzene-FID		103 %	50-1	50	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		84.3 %	50-20	00	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main Farmington NM, 87402 Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 11/15/18 15:24

South Wall P811031-04 (Solid)

		Reporting	51 07 (50	, , , , , , , , , , , , , , , , , , ,					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	I	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	50-	-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	I	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	50-	150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.2 %	50-	200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	



Epic Energy 7415 East Main

Farmington NM, 87402

Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

Project Number: Project Manager: 18012-0004 Felipe Aragon Reported: 11/15/18 15:24

East Bottom P811031-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	50-1.	50	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015								,	
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1.	50	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.1 %	50-2	00	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Farmington NM, 87402

Project Number: Project Manager: 18012-0004

Reported: 11/15/18 15:24

Felipe Aragon

East Wall P811031-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	50-	150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-	150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.1 %	50-2	200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.7	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported: 11/15/18 15:24

Farmington NM, 87402

Project Manager: Felipe Aragon

Center P811031-07 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								***************************************	
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	243	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	1020	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	261	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	1280	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	1530	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	-	103 %	50-	150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	33.3	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	2460	125	mg/kg	5	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	279	250	mg/kg	5	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	50-	150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		108 %	50-2	200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	40.9	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	·



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Farmington NM, 87402

Project Number: Project Manager: 18012-0004 Felipe Aragon Reported:

11/15/18 15:24

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1846004 - Purge and Trap EPA 5030.	A									
Blank (1846004-BLK1)				Prepared:	11/12/18 0 A	Analyzed: 1	1/12/18 2			
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	n							
o-Xylene	ND	100	**							
Total Xylenes	ND	100	**							
Total BTEX	ND	100	11							
Surrogate: 4-Bromochlorobenzene-PID	8030		"	8000		100	50-150			
LCS (1846004-BS1)				Prepared: 1	1/12/18 0 A	nalyzed: 1	1/13/18 0			
Benzene	4800	100	ug/kg	5000		95.9	70-130			
Toluene	4890	100	**	5000		97.7	70-130			
Ethylbenzene	4970	100	"	5000		99.4	70-130			
p,m-Xylene	10200	200	"	10000		102	70-130			
o-Xylene	4970	100	н	5000		99.4	70-130			
Total Xylenes	15200	100	n	15000		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8110		"	8000	· · · · · · · · · · · · · · · · · · ·	101	50-150	111.81.16		
Matrix Spike (1846004-MS1)	Sou	rce: P811031-	01	Prepared: 1	1/12/18 0 A	.nalyzed: 1	1/13/18 0			
Benzene	4330	100	ug/kg	5000	ND	86.6	54.3-133			
Toluene	4410	100	н	5000	ND	88.2	61.4-130			
Ethylbenzene	4470	100	**	5000	ND	89.5	61.4-133			
p,m-Xylene	9210	200	91	10000	ND	92.1	63.3-131			
o-Xylene	4490	100	"	5000	ND	89.8	63.3-131			
Total Xylenes	13700	100	**	15000	ND	91.3	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8080		"	8000		101	50-150			
Matrix Spike Dup (1846004-MSD1)	Sou	rce: P811031-	01	Prepared: 1	1/12/18 0 A	nalyzed: 1	1/13/18 0			
Benzene	4420	100	ug/kg	5000	ND	88.3	54.3-133	2.00	20	
Toluene	4470	100	11	5000	ND	89.4	61.4-130	1.41	20	
Ethylbenzene	4510	100	"	5000	ND	90.1	61.4-133	0.731	20	
o,m-Xylene	9240	200	"	10000	ND	92.4	63.3-131	0.336	20	
p-Xylene	4480	100	**	5000	ND	89.6	63.3-131	0.208	20	
Total Xylenes	13700	100	"	15000	ND	91.5	63.3-131	0.158	20	
Surrogate: 4-Bromochlorobenzene-PID	8060		"	8000		101	50-150			

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5796 US Highway 64, FarmIngton, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

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Project Name:

Soil Sampling @ Federal 1 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported:

Farmington NM, 87402

Project Manager: Felipe Aragon

11/15/18 15:24

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1846004 - Purge and Trap EPA 5030A										
Blank (1846004-BLK1)			*	Prepared:	11/12/18 0 2	Analyzed: 1	1/12/18 2			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		"	8.00		105	50-150			
LCS (1846004-BS2)				Prepared:	11/12/18 0	Analyzed: 1	1/13/18 0			
Gasoline Range Organics (C6-C10)	43.4	20.0	mg/kg	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			
Matrix Spike (1846004-MS2)	Sou	rce: P811031-	01	Prepared:	11/12/18 0 2	Analyzed: 1	1/13/18 0			
Gasoline Range Organics (C6-C10)	41.1	20.0	mg/kg	50.0	ND	82.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		"	8.00		105	50-150			
Matrix Spike Dup (1846004-MSD2)	Sou	rce: P811031-	01	Prepared:	11/12/18 0 2	Analyzed: 1	1/13/18 0			
Gasoline Range Organics (C6-C10)	45.7	20.0	mg/kg	50.0	ND	91.3	70-130	10.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		"	8.00		105	50-150			

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Page 11 of 15



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Farmington NM, 87402

Project Number:

18012-0004

Felipe Aragon

Reported: 11/15/18 15:24

Project Manager:

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1846017 - DRO Extraction EPA 3570										
Blank (1846017-BLK1)				Prepared &	Analyzed:	11/13/18 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	Ħ							
Surrogate: n-Nonane	47.8		"	50.0		95.6	50-200			
LCS (1846017-BS1)				Prepared &	Analyzed:	11/13/18 1				
Diesel Range Organics (C10-C28)	489	25.0	mg/kg	500		97.8	38-132			
Surrogate: n-Nonane	43.2		"	50.0		86.3	50-200			
Matrix Spike (1846017-MS1)	Sou	rce: P811031-	01	Prepared: 1	1/13/18 1 A	Analyzed: 1	1/15/18 0			
Diesel Range Organics (C10-C28)	500	25.0	mg/kg	500	ND	100	38-132			
Surrogate: n-Nonane	41.6		"	50.0		83.1	50-200			
Matrix Spike Dup (1846017-MSD1)	Sou	rce: P811031-	01	Prepared &	Analyzed:	11/13/18 1				
Diesel Range Organics (C10-C28)	492	25.0	mg/kg	500	ND	98.5	38-132	1.51	20	
Surrogate: n-Nonane	41.6		n	50.0		83.2	50-200			



Epic Energy
7415 East Main
Farmington NM, 87402

Project Name:

Project Manager:

Soil Sampling @ Federal I 5,8,9 Tank Battery

Project Number: 18012-0004

Felipe Aragon

Reported: 11/15/18 15:24

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
300.0/9056A			·						
			Prepared &	Analyzed:	11/12/18 1				
ND	20.0	mg/kg							
			Prepared &	Analyzed:	11/12/18 1				
257	20.0	mg/kg	250		103	90-110			
Sourc	e: P811031-	01	Prepared &	Analyzed:	11/12/18 1				
259	20.0	mg/kg	250	ND	104	80-120			
Source	e: P811031-	01	Prepared &	Analyzed:	11/12/18 1				
259	20.0	mg/kg	250	ND	104	80-120	0.201	20	
	300.0/9056A ND 257 Source 259 Source	Result Limit 300.0/9056A ND 20.0 257 20.0 Source: P811031- 259 20.0 Source: P811031-	Result Limit Units 300.0/9056A ND 20.0 mg/kg 257 20.0 mg/kg Source: P811031-01 259 20.0 mg/kg Source: P811031-01	Result Limit Units Level 300.0/9056A Prepared & ND 20.0 mg/kg Prepared & 257 20.0 mg/kg 250 Source: P811031-01 Prepared & 259 20.0 mg/kg 250 Source: P811031-01 Prepared &	Result Limit Units Level Result 300.0/9056A Prepared & Analyzed: ND 20.0 mg/kg 257 20.0 mg/kg 250 Source: P811031-01 Prepared & Analyzed: 259 20.0 mg/kg 250 ND Source: P811031-01 Prepared & Analyzed:	Result Limit Units Level Result %REC 300.0/9056A Prepared & Analyzed: 11/12/18 1 ND 20.0 mg/kg Prepared & Analyzed: 11/12/18 1 257 20.0 mg/kg 250 103 Source: P811031-01 Prepared & Analyzed: 11/12/18 1 259 20.0 mg/kg 250 ND 104 Source: P811031-01 Prepared & Analyzed: 11/12/18 1	Result Limit Units Level Result %REC Limits	Result Limit Units Level Result %REC Limits RPD	Result Limit Units Level Result %REC Limits RPD Limit



Project Name:

Soil Sampling @ Federal I 5,8,9 Tank Battery

7415 East Main

Project Number:

18012-0004

Reported:

Farmington NM, 87402

Project Manager:

Felipe Aragon

11/15/18 15:24

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

**

Methods marked with ** are non-accredited methods.

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Sample M	atrix: S - Soil,	Sd - Solid,	og - Sludge,	A - Aqueous, (o - Otner	s other arrangements are made. Hazaro	lous samples will b	e returi	ned to	dient (or disp	osed	of at t	he clie	nt exp	ense.	. The r	eport i	for th	e analysis	of the above
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5796 US Highway 64 Tarmington, HM 87401

Three Springs - 65 Mercads: Street, State 115, Durango (0.8130)

Phy505, 632-0615 Fr. 5053632-1865

Laboratory@envirotech-inc.com

SB Center

M ECT	in the	USCS	SHAPE	HE AUST ACE	JTHE DESCRIPTION SEELS
/वीपिक	1146	5m	Hand		light brown sith sand, no ada
		40~			light bonn with med as when
2		sm			light from, silty sand
<u>3</u>		5 m	6-6	289	1:ght Brom silty sond wil some black discolumbon hydrocombon
4		sm	Bu		light brown silty sand w alot of black discoloration, strong hydrocarbon odor
h#1 <u>3 5</u>		5m	Store back rise	2042	light brown silty on to v/ greyest black discolore to
<u> </u>		SM			light Brown Silty Found all black doctorship highs cause
7		Sm			grayish Bran city and humbachen
DRILLING ON Note: S	METHOD:		 	BIT SIZE: TOTAL BO DATE STAI SAMPLER A = Auge	PRING DEPTH:/Q5 ELEVATION: (36.31995, -107.53995) ARTED: Lollolis DATE COMPLETED LOLLOS TYPE: GEOLOGIST:
REVISION DATE	·	- Job ∦		1	VIROLEUT I U.

SB Conter

M. C.	THE	uscs	SAMPLE SAMPLE	K AD	SPACE LITH	SAMPLE DESCRIPTION	KEET!
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	4						
<u>. </u>				<u> </u>		Tark	Lotton Ecolonal I
DRILLER:	64				SIZE:	LOCATION:	8.9
HELPER:	36					DEPTH: 10.5	K, -167.57743A)
	COMPANY:	<u>52 ~~</u>	th		STARTED:	DATE COMITEETED _	1/8/18
DRILLING	METHOD: Fllq2 = 22	+ Sn	000		PLER TYPE Auger	: GEOLOGIST: c5 = 5 foot composite from	ole cuttles
יים יים יים	33 - SPII	· SD	<u> </u>		PAL III		an carrings
					FUAI	<u>ROTECH INC.</u>	
					EM/IDONIA!	ENTAL SCIENTISTS & ENGINEERS	
REVIS BY DAT	sions Te				5	796 U.S. HIGHWAY 64 DATE DRAV	
BY DAT		JOB #		_		NGTON, NEW MEXICO 87401 (505) 832-0615 SCALE APPR	ROVED OF

SB West

MEET!	THE USCS	SAMPLE	HE ADSPAC	LITHELLIST SAMPLE DESCRIPTION TO
oldis	san	Hard		very light brown fine parly
				grand somes no oder
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			0.0	no ode
4	5M		83.2	some black du colortan, hydrone
ا داما		but		0-10
18/13	s e n			vary fine light brown sand so
	SM		0.0	Van the light book sound 12
8				Tobar went dissing we be when
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TER: 64			BIT SIZE	E: LOCATION: LOCATION: CLEVATION: CLEVATION:
LING METH			DATE ST	TARTED: 10 kld 20 DATE COMPLETED 11/8/19 R TYPE: GEOLOGIST:
ei 22 =	Split Sp	oon i	4 = Aug F1	ger c5 = 5 foot composite from air cuttings OVIROTECH INC.
REVISIONS	····		EN	NATRONMENTAL SCIENTISTS & ENGINEERS
DATE	јов 🛔	Į		5796 U.S. HIGHWAY 84 DATE DRAWN PAGE FARMINGTON, NEW MEXICO 87401 (505) 632-0615 SCALE APPROVED

SB East

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hoe -					
Blib		1			
5	5m			Test pit moved I feet outside begin in onder	
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-		╂		light brown sand no adv	
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10	5M			light gran sand no other	
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~~	R.		CIZE	LOCATION: (36.219869, -107.5	} 7.5
THE	DN	Bii	SIZE:	DEPTH: 6'2" ELEVATION:	_
ווואט ט ביביג: דין	OMPANY:	DA*	E STARTED:	: 10 16/19 DATE COMPLETED 11/8/1+	_
	ETHOD:		IPLER TYPE		
	S = Split S		Auger	c5 = 5 foot composite from air cutting	<u>}</u> S
			ENVI	ROTECH INC.	
			EMIDONNE	ENTAL SCIENTISTS & ENGINEERS	
REVISIO		_	5	PACE DISTRICT SECTION OF THE PACE PACE PACE PACE PACE PACE PACE PAC	
DATE	JOB	å.	I WANTED	(505) 632-0615 SCALE APPROVED	0

TE CE	TO THE	USCS SE	AST KAN	SPACE LITH	A.Go'		SAMPLE DESCR	IPTION		MEET!
	5				light	bon	Sand	B	odor	_
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3	CV	$\frac{1}{2}$			light	Brun	Saud	N 8-	L~	
4	Sr	n			lish	Brem	Sand	~ 5 =		
	(A)	n	0.0		lisht	Bronn	Emd	m 8-		
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RILLER: .	<u> </u>			SIZE:			LOCATION	. <u>36. 2189</u>	4. - 107.	<u>577</u> 64
RILLING	COMPANY:		DATE	STARTED:	بعلي	13	DATE COM	MPLETED 12	16/18	
	METHOD: SS = Split			PLER TYPE: Auger	c 5	= 5 foot	GEOLOGIS Composite	e from a	ir cuttl	ngs
				EUAIL	ROTEC	CH INC.				
REVIS Y DATI	-			57	NTAL SCIENTISTS 198 U.S. HIGHW GTON, NEW ME	S & ENGINEERS AY 64 VICO 87401	DATE	DRAWN		PAGE
TATI		JOB 🛊			(505) 632-06	315	SCALE	APPRO	VED	OF

SB South

M. E. E.	TIME USCS	SAMPLE	Kelistact	MALDST SAMPLE DESCRIPTION FEET
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3	Sm			lish Boom sand, a dur
4	Sm Sm	C	o.∙O	light Bram fre sand, will shight ator
5				
DRILLING CO DRILLING M DRILLING M Note: SS		T	IT SIZE: OTAL BORING ATE STARTED AMPLER TYP = Auger	
REVISION BY DATE BY DATE	IS JOB			IROTECHIOC. AENTAL SCIENTISTS & ENGINEERS 5798 U.S. HIGHWAY 64 IINGTON, NEW MEXICO 87401 (505) 632-0815 DATE DRAWN PAGE OF

SB South (watch engineering

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					hand		tis wi back	
ч	51	20			light	6	C . 5.114 5: 1	
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s							<u> </u>	
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<u> </u>	51	<u>~ </u>			lisht	5 od	Suty and hand	<u> </u>
-	\$		0-3		73 7	<u>۔۔۔</u>		
-	4							
4		_						
L		1			1		LOCATION: (36,218	
HELPR:	507 50		[BIT SIZE: FOTAL BORING	DEBTH: 6	.51	ELEVATION:	10+.5+112
RILLING C	OMPANY:			DATE STARTED	: 1	319	DATE COMPLETED 11/4	1/3
RILLING M	ETHOD:	· Sn/		SAMPLER TYPE = Auger	:	= 5 foot	GEOLOGIST: composite from air	cuttinos
over oc	, spar	יקט ,	JOIL IN				Tongo Tron di	CG V VII IGS
				CITAL	ROTE			
	REVISIONS				796 U.S. HIGH	S & ENGINEERS	DATE DRAWN	PAGE
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