SITE INFORMATION

Report Type: Closure Report 1RP-4692								
General Site Info	rmation:							
Site:		West Grama Ri	idge 6 Federal #4	4H				
Company:		Cimarex Energ	у					
Section, Townsh	ip and Range	Unit A	Sec. 06	T 22S	R 34E			
Lease Number:		API No. 30-025	-41173					
County:		Lea County						
GPS:			32.42714º N			103.50	269º W	
Surface Owner:		Federal						
Mineral Owner:								
Directions:		From intersection	of Co Rd 27-A and	I HWY 176 ir	n rural Lea C	ounty, travel	east on HWY 176 for	
		6.70 mi, turn sout	.70 mi, turn south onto lease road and continue for 8.75 mi, turn north onto lease road for 1.4					
		o location.						
Polooco Doto								
Nete Released:		5/5/2017						
Date Released:		Oil & Droduced	W/ator					
Type Release.		3" Buried Steel	ling					
Source of Contamination.		10 bbls oil & 10	Lille bble water					
Fluids Recovered		5 bbls oil & 2 bb	ls water					
Official Communication:								
Name:	Christine Alderman				lko Tavaroz			
Name. Compony:					Tetro Tech			
Company.	Cimarex Energy					0		
Address:	600 N. Marienfield S	st.			4000 N. Big	Spring		
	Ste 600				Ste 401			
City:	Midland Texas, 7970	01			Midland, Te	xas		
Phone number:	(432) 853-7059				(432) 687-8110			
Fax:								
Email:	calderman@cimar	ex.com			Ike.Tavare	z@tetratech	h.com	
Ranking Criteria								
Depth to Groundw	ater:		Ranking Score			Site Data		
<50 ft			20					
50-99 ft			10					
>100 ft.			0			100' - 125'		
WallHaad Protectiv	on:		Panking Score			Site Data		
Water Source <1.0	00 ft Private <200 ft		20			Sile Dala		
Water Source >1.0	00 ft., Private >200 ft.		0			0		
,_			-					
Surface Body of Water:			Ranking Score			Site Data		
<200 ft.			20					
200 ft - 1,000 ft.			10			0		
>1,000 ft.			0			0		
То	tal Ranking Score		0					
				/1				
		Acceptab	le Soil RRAL (m	g/kg)				
		Benzene	Total BTEX	TPH				
		10	50	5,000				



April 25, 2018

Christine Alderman ESH Supervisor – Permian Basin Cimarex Energy 600 N. Marienfeld St. Midland, Texas 79701

Re: Closure Report for the Cimarex Energy, West Grama Ridge 6 Federal #4H, Unit A, Section 06, Township 22 South, Range 34 East, Lea County, New Mexico. 1RP-4692.

Ms. Alderman:

Tetra Tech, Inc. (Tetra Tech) was contacted by Cimarex Energy (Cimarex) to evaluate a release that occurred at the West Grama Ridge 6 Federal #4H, Unit A, Section 06, Township 22 South, Range 34 East, Lea County, New Mexico (site). The spill site coordinates are N 32.42714°, W 103.50269 °. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on May 5, 201, and released approximately ten (10) barrels of oil and ten (10) barrels of produced water due to a leak that developed on a 3" buried steel line. Approximately five (5) barrels of oil and two (2) barrels of produced water was recovered. According to Cimarex, the spill area was immediately scraped around the wellhead and measured approximately 40' x 70'. The initial C-141 Form is included in Appendix A.

Groundwater

No water wells were listed within Section 06 on the New Mexico Office of the State Engineer's website, the USGS National Water Information System, or the Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6). The nearest well listed is in Section 08 and has a reported depth to groundwater of 30 feet below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is approximately 100' below surface. The surface elevation difference between the site (3650') and the 30' water well located in Section 08 (3573') is approximately 77'. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine



recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On November 9, 2017, Tetra Tech personnel were onsite to evaluate and sample the release area. Two (2) backhoe trenches (T-1 and T-2) were installed in the spill footprint to total depths of 9.0' and 8.0' below surface, respectively. Selected samples were analyzed for TPH analysis by EPA Method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown in Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene or total BTEX concentrations above the laboratory reporting limits. Additionally, no TPH concentrations above the RRAL were detected, with TPH highs at 0-1' below surface on 259 mg/kg (T-1) and <15.0 mg/kg (T-2).

The area of trench (T-1) did show slight chloride concentrations in the shallow soils, with a chloride of 853 mg/kg at 2.0' below surface. The chloride concentrations then declined with depth to 214 mg/kg at 5.0' and then spiked to 719 mg/kg at 6.0' below surface. The chloride concentrations decline again showing a bottom trench concentration of 77.4 mg/kg at 9.0' below surface. The area of trench (T-2) did not show any significant chloride concentrations, with a high of 191 mg/kg at 0-1' below surface and a bottom trench concentration of 57.8 mg/kg at 8.0' below surface.

Conclusion and Recommendations

All of the soil samples were below the RRALs for TPH, benzene, and total BTEX. Additionally, the chloride concentrations were not significant in the subsurface soils and do not appear to be an imminent threat to groundwater. Based on the results, Cimarex requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment activities for this site, please call at (432) 682-4559.

Respectfully submitted, TETRA TECH

Ike Tavarez, PG Senior Project Manager

an Congalos

Clair Gonzales, Project Manager

Figures



Mapped By: Isabel Marmolejo



Mapped By: Isabel Marmolejo



Tables

Table 1 Cimarex Energy West Grama Ridge 6 Fed #4H Lea County, New Mexico

O annu la ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene Toluer	Toluene	Ethlybenzene	Xylene 1	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	C6-C10	C10-C28	C28-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
T-1	11/9/2017	0-1	Х		<15.0	259	<15.0	259	<0.00202	< 0.00202	<0.00202	<0.00202	<0.00202	369
	-	2	Х		-	-	-	-	-	-	-	-	-	853
	"	3	Х		-	-	-	-	-	-	-	-	-	416
	"	4	Х		-	-	-	-	-	-	-	-	-	436
	"	5	Х		-	-	-	-	-	-	-	-	-	214
	"	6	Х		-	-	-	-	-	-	-	-	-	719
	"	7	Х		-	-	-	-	-	-	-	-	-	77.1
	"	8	Х		-	-	-	-	-	-	-	-	-	117
	-	9	Х		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	77.4
T-2	11/9/2017	0-1	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	191
	н	2	Х		-	-	-	-	-	-	-	-	-	31.9
	н	3	Х		-	-	-	-	-	-	-	-	-	53.5
		4	Х		-	-	-	-	-	-	-	-	-	78.5
	"	5	Х		-	-	-	-	-	-	-	-	-	66.8
	"	6	Х		-	-	-	-	-	-	-	-	-	57.1
	"	7	Х		-	-	-	-	-	-	-	-	-	44.7
	"	8	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	57.8

(-) Not Analyzed

Appendix A

-

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action										
OPERATOR Initial Report Final Report										
Name of Co	mpany: C	Cimarex Ene	rgy Co. o	f Colorado	Contact: G	Contact: Gloria Garza				
Address: 6	00 N Mari	enfeld Ste 60	00 Midlar	ld TX	Telephone 1	No. 432-234-32	.04			
Facility Nat	ne: West (Grama Ridge	6 Federa	il #4H	Facility Typ	e: Well				
Surface Owner: Mineral Owner API No. 30-025-41173						1173				
_				LOCA	TION OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County		
А	6	22S	34E	330	N	660	E	LEA		
Latitude 32.42714Longitude -103.50269										

NATURE OF RELEASE

IVATORE	OF RELEASE	
Type of Release : Crude Oil and Produced water	Volume of Release: 20 BBLS	Volume Recovered: 7 BBLS
Source of Release : 3" buried steel pipe	Date and Hour of Occurrence:	Date and Hour of Discovery: 5/6/2017
	5/5/2017 PM	8:00 AM
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🔲 No 🛄 Not Required	Olivia Yu	
Du Wham? Clavic Come	Date and Hour: 5/7/2017 12:10 Pl	
By Whom? Gloria Garza	If VES Volume Impacting the W	otarcourse
was a watercourse Reached?	If TES, Volume impacting the W	alcicourse.
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
A 3" buried steel line developed a hole due to external corrosion.		
10 barrels of crude oil were released and we recovered 5 of the 10 barrels		
10 barrels of produced water were released and we recovered 2 of those 1	0 barrels.	
Impacted soil was picked up.	·	
Describe Area Affected and Cleanup Action Taken.*		
The spill occurred on location around the well head.	Aug a 4., 9	
An environmental consulting company has been contacted and a work pla	in will be submitted.	
I there has not for the table in formation along a hour in two and complete to t	he best of my knowledge and unders	tond that nursuant to NMOCD rules and
I nereby centry that the information given above is true and complete to the	atifications and perform corrective a	ctions for releases which may endenger
regulations all operators are required to report and/or the certain release in while health on the any improvement. The account and of C_{144} report by the	a NMOCD marked as "Final Report"	does not relieve the operator of lightlity
public health of the chybolinent. The acceptance of a C-141 report by the	e contamination that nose a threat to	ground water surface water human health
should their operations have failed to adequately investigate and remediat	oes not relieve the operator of respon	sibility for compliance with any other
federal state or local laws and/or regulations	oes not remeve the operator of respon	isibility for compliance that any other
rederal, state, or total taws allow or regulations.	OIL CONSED	VATION DIVISION
	OIL COMBER	VATOR DIVISION
Signature: (NUTUU/Marzhu)		
	Approved by Environmental Special	inter .
Printed Name: Gloria Garza	Approved by Environmental Special	151.
Title: ESH Specialist	Approval Date:	Expiration Date:
E-mail Address: ggarza@cimarex.com	Conditions of Approval:	Ausshed 🗖
	* *	Attached
Date: 5.8.2017 Phone: 432-234-3204		

* Attach Additional Sheets If Necessary

Jaime Castillo 575-200-4885

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

API No. 30-025-41173

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Cimarex Energy	Contact Gloria Garza		
Address 600 N. Marienfeld Ste 600, Midland, TX	Telephone No. (432) 234-3204		
Facility Name: West Grama Ridge 6 Federal #4H	Facility Type Well		

Surface Owner: Federal	
------------------------	--

LOCATION OF RELEASE

Mineral Owner:

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
А	06	228	34Ē	330	FNL	660	FEL	Lea

Latitude N 32.42714° Longitude W 103.50269°

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release 10 bbls oil	Volume Re	ecovered: 5 bbls oil
	10 bbls produced water	2 bbls proc	luced water
Source of Release: 3" buried steel line	Date and Hour of Occurrence	Date and H	Iour of Discovery
	05/05/17	05/06/17	8:00AM
Was Immediate Notice Given?	If YES, To Whom?		
Yes No Not Required	Olivia Yu		
By Whom? Gloria Garza	Date and Hour 05/07/17 12:10 P	M	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.	
🗋 Yes 🖾 No	N/A		
If a Watercourse was Impacted, Describe Fully.*			
N/A			
Describe Cause of Problem and Remedial Action Taken.*			
A 3" buried steel line developed a hole due to external corrosion. The im	pacted soil was picked up.		
Describe Area Affected and Cleanup Action Taken.*			
The site was inspected and soil samples were collected to define the spills	s extent. None of the samples collecte	d showed elev	vated benzene, total BTEX,
IPH, or chloride concentrations. Tetra Tech prepared a closure report an	a submitted to NMOCD for review.		
Lhereby certify that the information given above is true and complete to t	he best of my knowledge and underst	and that nursu	uant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	otifications and perform corrective ac	ctions for release	ases which may endanger
public health or the environment. The acceptance of a C-141 report by th	e NMOCD marked as "Final Report"	does not relie	eve the operator of liability
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to	ground water.	surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report d	loes not relieve the operator of respon	sibility for co	mpliance with any other
federal, state, or local laws and/or regulations.		j	r
	OIL CONSER	VATION	DIVISION
Ch. The	<u>OIE CONDER</u>	1110111	
Signature:		Q	
	Approved by District Supervisor:	D	rittany Nall
Printed Name: Ike Tavarez	rippio ted by District Supervisor.		0
Title: Project Manager	Approval Date: 09/16/2022	Expiration D	Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:		Attached
Date: 02/13/18 Phone: (432) 682-4559			

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data Average Depth to Groundwater (ft) Cimarex - West Grama Ridge 6 Fed #4H Lea County, New Mexico

_	21 So	outh	33	East	
6	5	4	3	2 79	1
				107	
7	8	9	10	11 150	12
18	17	16	15	14	13
143					
19	20	21	22	23	24
30	29	28	27	26	25
		179			
31	32	33 <mark>180</mark>	34	35	36

	21 So	uth	34	East	
6	5	4 95	3	2	1
7	8 <mark>120</mark>	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 140	27	26	25
31	32	33 <mark>67</mark>	34	35	36

_	21 So	outh	35	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 So	outh	33	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 <mark>391</mark>
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	23 So	outh	33	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26 225	25
31	32	33	34	35	36

	22 So	outh	34	East	
6	5	4	3	2	1
7	8 <mark>30</mark>	9	10	11 30	12 50
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	23 So	outh	34	East	
6	5	4	3	2	1
7	8 225	9	10	11	12
18	17	16	15 430	14 318	13
19	20	21	22 295	23 265	24
30	29	28	27	26	25
31	32 130	33	34	35	36

	22 So	outh	35		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	23 So	uth	35	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha: C=the file closed)	has beer ned, e is	ı (qu (qu	iarte iarte	rs a rs a	ure l	=NV	V 2=N est to l	E 3=SW argest)	7 4=SE) (NAD8	3 UTM in meter:	s)	(In feet)	
		POD		0	0	0								
POD Number	Code	Sub- basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	Х	Y	DepthWellDe	othWater (Water Column
<u>CP 00380</u>		СР	LE		4	2	11	22S	34E	647245	3586739* 🌍	45	30	15
<u>CP 00596 POD1</u>		СР	LE		4	2	11	22S	34E	647245	3586739* 🌍	50		
<u>CP 00597 POD1</u>		СР	LE		2	2	08	22S	34E	642410	3587074* 🌍	35		
<u>CP 00598 POD1</u>		СР	LE		4	1	23	22S	34E	646480	3583511* 🌍	70		
<u>CP 00599 POD1</u>		СР	LE		1	1	12	22S	34E	647642	3587147* 🌍	62	50	12
<u>CP 00604</u>		СР	LE	1	4	4	01	22S	34E	648743	3587666* 🧧	135		
<u>CP 00622</u>		СР	LE	3	4	2	14	22S	34E	647164	3585030* 🌍			
CP 00704		СР	LE		2	4	22	22S	34E	645681	3583097* 🌍	600		
CP 00744		СР	LE		1	2	09	22S	34E	643618	3587091* 🌍	460		
CP 00751		СР	LE		4	2	11	22S	34E	647245	3586739* 🌍		45	
<u>CP 00865 POD1</u>		СР	LE	2	2	3	20	22S	34E	641845	3583118 🌍	885	605	280
<u>CP 00933</u>		СР	LE	1	1	1	12	22S	34E	647541	3587246* 🌍	60		
<u>CP 00934</u>		СР	LE	2	1	2	01	22S	34E	648682	3588822 🌍	60	42	18
<u>CP 00944 POD1</u>		СР	LE		3	1	03	22S	34E	644531	3588351 🌍	109	70	39
<u>CP 01362 POD1</u>		СР	LE	3	4	4	18	22S	34E	640809	3584182 🌍	1032	613	419
<u>CP 01455 POD1</u>		СР	LE	4	1	4	18	22S	34E	640574	3584515 🌍	1033	615	418
											Average Depth t	o Water:	258 f	eet
											Minimu	m Depth:	30 fe	eet
											Maximu	m Depth:	615 fe	eet

New Mexico Office of the State Engineer

*UTM location was derived from PLSS - see Help

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.

1/4/18 9:32 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C

Analytical Report 568803

for Tetra Tech- Midland

Project Manager: Clair Gonzales

West Grama Ridge 6 Federal #4H

212C-MD-00990.08

29-NOV-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



29-NOV-17



Reference: XENCO Report No(s): **568803** West Grama Ridge 6 Federal #4H Project Address: Lea County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 568803. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 568803 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Miles P

Mike Kimmel Client Services Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 568803



Tetra Tech- Midland, Midland, TX

West Grama Ridge 6 Federal #4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1 0-1'	S	11-09-17 00:00		568803-001
T-1 2'	S	11-09-17 00:00		568803-002
T-1 3'	S	11-09-17 00:00		568803-003
T-1 4'	S	11-09-17 00:00		568803-004
T-1 5'	S	11-09-17 00:00		568803-005
T-1 6'	S	11-09-17 00:00		568803-006
T-1 7'	S	11-09-17 00:00		568803-007
T-1 8'	S	11-09-17 00:00		568803-008
T-1 9'	S	11-09-17 00:00		568803-009
T-2 0-1'	S	11-10-17 00:00		568803-010
T-2 2'	S	11-11-17 00:00		568803-011
T-2 3'	S	11-12-17 00:00		568803-012
T-2 4'	S	11-13-17 00:00		568803-013
T-2 5'	S	11-14-17 00:00		568803-014
T-2 6'	S	11-15-17 00:00		568803-015
T-2 7'	S	11-16-17 00:00		568803-016
T-2 8'	S	11-17-17 00:00		568803-017



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: West Grama Ridge 6 Federal #4H

 Project ID:
 212C-MD-00990.08

 Work Order Number(s):
 568803

 Report Date:
 29-NOV-17

 Date Received:
 11/17/2017

Sample receipt non conformances and comments:

T-1 and T-2 @1 ' not submitted.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3034040 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Tetra Tech- Midland, Midland, TX

Project Name: West Grama Ridge 6 Federal #4H



Project Id:212C-MD-00990.08Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Fri Nov-17-17 09:00 amReport Date:29-NOV-17Project Manager:Kelsey Brooks

	Lab Id:	568803-0	001	568803-0	002	568803-0	003	568803-0	004	568803-0	05	568803-	006
Analysis Paguested	Field Id:	T-1 0-1	1'	T-1 2'		T-1 3		T-1 4		T-1 5'		T-1 6	7
Analysis Kequestea	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-09-17	00:00	Nov-09-17	00:00	Nov-09-17	00:00	Nov-09-17	00:00	Nov-09-17 (00:00	Nov-09-17	00:00
BTEX by EPA 8021B	Extracted:	Nov-21-17	09:30										
	Analyzed:	Nov-21-17	15:19										
	Units/RL:	mg/kg	RL										
Benzene		< 0.00202	0.00202										
Toluene		< 0.00202	0.00202										
Ethylbenzene		< 0.00202	0.00202										
m,p-Xylenes		< 0.00403	0.00403										
o-Xylene		< 0.00202	0.00202										
Total Xylenes		< 0.00202	0.00202										
Total BTEX		< 0.00202	0.00202										
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-27-17	16:20	Nov-27-17	16:20	Nov-28-17	09:30	Nov-28-17	09:30	Nov-28-17 (09:30	Nov-28-17	09:30
	Analyzed:	Nov-28-17	02:18	Nov-28-17	02:24	Nov-28-17	10:23	Nov-28-17	10:47	Nov-28-17	10:53	Nov-28-17	10:59
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		369	5.00	853	4.94	416	4.95	436	4.94	214	4.94	619	4.93
TPH By SW8015 Mod	Extracted:	Nov-17-17	13:00										
	Analyzed:	Nov-18-17	07:58										
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0										
Diesel Range Organics (DRO)		259	15.0										
Oil Range Hydrocarbons (ORO)		<15.0	15.0										
Total TPH		259	15.0										

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Tetra Tech- Midland, Midland, TX

Project Name: West Grama Ridge 6 Federal #4H



Project Id:212C-MD-00990.08Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Fri Nov-17-17 09:00 amReport Date:29-NOV-17Project Manager:Kelsey Brooks

	Lab Id:	568803-0	07	568803-0	08	568803-	009	568803-	010	568803-0)11	568803-	012
Analysis Paguested	Field Id:	T-1 7'		T-1 8'		T-1 9	,	T-2 0-1'		T-2 2'		T-2 3	;'
Analysis Kequestea	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	_
	Sampled:	Nov-09-17	00:00	Nov-09-17	00:00	Nov-09-17	00:00	Nov-10-17	00:00	Nov-11-17	00:00	Nov-12-17	00:00
BTEX by EPA 8021B	Extracted:					Nov-21-17	09:30	Nov-21-17	09:30				
	Analyzed:					Nov-21-17	15:38	Nov-21-17	15:58				
	Units/RL:					mg/kg	RL	mg/kg	RL				
Benzene						< 0.00201	0.00201	< 0.00199	0.00199				
Toluene						< 0.00201	0.00201	< 0.00199	0.00199				
Ethylbenzene						< 0.00201	0.00201	< 0.00199	0.00199				
m,p-Xylenes						< 0.00402	0.00402	< 0.00398	0.00398				
o-Xylene						< 0.00201	0.00201	< 0.00199	0.00199				
Total Xylenes						< 0.00201	0.00201	< 0.00199	0.00199				
Total BTEX						< 0.00201	0.00201	< 0.00199	0.00199				
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-28-17	09:30	Nov-28-17 (09:30	Nov-28-17	09:30	Nov-28-17	09:30	Nov-28-17	09:30	Nov-28-17	09:30
	Analyzed:	Nov-28-17	11:27	Nov-28-17	11:33	Nov-28-17	11:39	Nov-28-17	11:45	Nov-28-17	11:51	Nov-28-17	11:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		77.4	4.96	117	4.97	77.4	4.94	191	4.95	31.9	4.94	53.5	4.91

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Project Name: West Grama Ridge 6 Federal #4H

Tetra Tech- Midland, Midland, TX



Project Id:212C-MD-00990.08Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Fri Nov-17-17 09:00 amReport Date:29-NOV-17Project Manager:Kelsey Brooks

	Lab Id:	568803-007	568803-008	568803-0	09	568803-0	10	568803-011	568803-012
Analysis Paguested	Field Id:	T-1 7'	T-1 8'	T-1 9'		T-2 0-1'		T-2 2'	T-2 3'
Analysis Kequesiea	Depth:								
	Matrix:	SOIL	SOIL	SOIL		SOIL		SOIL	SOIL
	Sampled:	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 (00:00	Nov-10-17 (00:00	Nov-11-17 00:00	Nov-12-17 00:00
TPH By SW8015 Mod	Extracted:		1	Nov-17-17 1	13:00	Nov-17-17 1	3:00		1
	Analyzed:			Nov-18-17 (08:20	Nov-18-17 (08:40		
	Units/RL:			mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)				<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)				<15.0	15.0	<15.0	15.0		
Oil Range Hydrocarbons (ORO)				<15.0	15.0	<15.0	15.0		
Total TPH				<15.0	15.0	<15.0	15.0		

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Tetra Tech- Midland, Midland, TX

Project Name: West Grama Ridge 6 Federal #4H



Project Id:212C-MD-00990.08Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Fri Nov-17-17 09:00 amReport Date:29-NOV-17Project Manager:Kelsey Brooks

	Lab Id:	568803-0	013	568803-0	014	568803-0	015	568803-0	016	568803-0)17	
Anglusia Deguested	Field Id:	T-2 4	,	T-2 5'		T-2 6	,	T-2 7		T-2 8'		
Analysis Kequestea	Depth:											
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL		SOIL		
	Sampled:	Nov-13-17	00:00	Nov-14-17	00:00	Nov-15-17	00:00	Nov-16-17	00:00	Nov-17-17	00:00	
BTEX by EPA 8021B	Extracted:			1						Nov-21-17	09:30	
	Analyzed:									Nov-21-17	16:17	
	Units/RL:									mg/kg	RL	
Benzene										< 0.00199	0.00199	
Toluene										< 0.00199	0.00199	
Ethylbenzene										< 0.00199	0.00199	
m,p-Xylenes										<0.00398	0.00398	
o-Xylene										< 0.00199	0.00199	
Total Xylenes										< 0.00199	0.00199	
Total BTEX										< 0.00199	0.00199	
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-28-17	09:30									
	Analyzed:	Nov-28-17	12:15	Nov-28-17	12:21	Nov-28-17	12:39	Nov-28-17	12:44	Nov-28-17	12:50	
	Units/RL:	mg/kg	RL									
Chloride		78.5	5.00	66.8	4.98	57.1	4.91	44.7	4.92	57.8	4.97	
TPH By SW8015 Mod	Extracted:									Nov-17-17	13:00	
	Analyzed:									Nov-18-17	09:02	
	Units/RL:									mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)										<15.0	15.0	
Diesel Range Organics (DRO)										<15.0	15.0	
Oil Range Hydrocarbons (ORO)										<15.0	15.0	
Total TPH										<15.0	15.0	

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Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238 (210) 509-3334 (210) 509-3
1211 W Florida Ave, Midland, TX 79701 (432) 563-1800 (432) 563-1
2525 W. Huntington Dr Suite 102, Tempe AZ 85282 (602) 437-0330



Work Or Lab Batch	r ders : 568803 #: 3033989	3, Sample: 568803-001 / SMP	Batch	Project ID: n: 1 Matrix:	212C-MD-0 Soil	0990.08	
Units:	mg/kg	Date Analyzed: 11/18/17 07:58	SU	RROGATE RI	ECOVERY	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	ane		96.0	100	96	70-135	
o-Terphenyl	l		47.0	50.0	94	70-135	
Lab Batch	#: 3033989	Sample: 568803-009 / SMP	Batch	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 11/18/17 08:20	SU	RROGATE RI	ECOVERY	STUDY	
	TPH I	3y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		92.9	100	93	70-135	
o-Terphenyl	l		46.7	50.0	93	70-135	
Lab Batch	#: 3033989	Sample: 568803-010 / SMP	Batch	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 11/18/17 08:40	SU	RROGATE RI	ECOVERY	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		86.0	100	86	70-135	
o-Terphenyl			44 7	50.0	89	70-135	
Lab Batch	#: 3033989	Sample: 568803-017 / SMP	Batch	h: 1 Matrix:	Soil	10 155	
Units:	mg/kg	Date Analyzed: 11/18/17 09:02	SU	RROGATE RI	ECOVERY	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		92.1	100	92	70-135	
o-Terphenyl	l		45.7	50.0	91	70-135	
Lab Batch	#: 3034040	Sample: 568803-001 / SMP	Batch	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 11/21/17 15:19	SU	RROGATE RI	ECOVERY	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0288	0.0300	96	80-120	
4-Bromoflue	orobenzene		0.0254	0.0300	85	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Work Oi Lab Batch	r ders : 568803 #: 3034040	3, Sample: 568803-009 / SMP	Batch	Project ID: a: 1 Matrix	212C-MD-0 Soil	0990.08	
Units:	mg/kg	Date Analyzed: 11/21/17 15:38	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0294	0.0300	98	80-120	
4-Bromoflu	orobenzene		0.0292	0.0300	97	80-120	
Lab Batch	#: 3034040	Sample: 568803-010 / SMP	Batch	a: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/21/17 15:58	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0306	0.0300	102	80-120	
4-Bromoflu	orobenzene		0.0294	0.0300	98	80-120	
Lab Batch	#: 3034040	Sample: 568803-017 / SMP	Batch	a: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/21/17 16:17	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[0]		
1,4-Difluor	obenzene		0.0312	0.0300	104	80-120	
4-Bromoflu	lorobenzene		0.0291	0.0300	97	80-120	
Lab Batch	#: 3033989	Sample: 7634762-1-BLK7	BLK Batch	a: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/18/17 04:49	SUI	RROGATE R	ECOVERY	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		94.4	100	94	70-135	
o-Terpheny	1		48.2	50.0	96	70-135	
Lab Batch	#: 3034040	Sample: 7634836-1-BLK / 1	BLK Batch	a: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/21/17 13:44	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
BTEX by EPA 8021B Amount Found [A] I.4-Difluorobenzene 0.0294 4-Bromofluorobenzene 0.0292 Lab Batch #: 3034040 Sample: 568803-010 / SMP Batch Units: mg/kg Date Analyzed: 11/21/17 15:58 g BTEX by EPA 8021B Amount Found [A] Analytes I.4-Difluorobenzene 0.0306 4-Bromofluorobenzene 0.0306 4-Bromofluorobenzene 0.0306 4-Bromofluorobenzene 0.0306 1.4-Difluorobenzene 0.0306 4-Bromofluorobenzene 0.0306 1.4-Difluorobenzene 0.0306 1.4-Difluorobenzene 0.0306 1.4-Difluorobenzene 0.0306 1.4-Difluorobenzene 0.0301 1.4-Difluorobenzene 0.0312 1.4-Difluorobenzene 94.4 0-			0.0202	0.0200	101	80.120	
1,4-Dilluon	obelizelle		0.0505	0.0300	101	00-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Work Or Lab Batch	rders : 56880 #: 3033989	3, Sample: 7634762-1-BKS /	BKS Batc	Project ID: h: 1 Matrix	212C-MD-0 Solid	0990.08	
Units:	mg/kg	Date Analyzed: 11/18/17 05:09	SU	RROGATE R	ECOVERY	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		99.7	100	100	70-135	
o-Terpheny	1		52.3	50.0	105	70-135	
Lab Batch	#: 3034040	Sample: 7634836-1-BKS /	BKS Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/21/17 11:51	SU	RROGATE R	ECOVERY	STUDY	
	ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene	j	0.0287	0.0300	96	80-120	
4-Bromoflu	orobenzene		0.0296	0.0300	99	80-120	
Lab Batch	#: 3033989	Sample: 7634762-1-BSD /	BSD Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/18/17 05:32	SU	RROGATE R	ECOVERY	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes					
I-Chlorooct	tane		95.7	100	96	70-135	
o-Terpheny	1		51.9	50.0	104	70-135	
Lab Batch	#: 3034040	Sample: /634836-1-BSD/	BSD Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/21/17 12:10	SU	RROGATE R	ECOVERY	STUDY	
	ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0255	0.0300	85	80-120	
4-Bromoflu	orobenzene		0.0263	0.0300	88	80-120	
Lab Batch	#: 3033989	Sample: 568546-001 S / M	S Batc	h: 1 Matrix	: Soil	-	·
Units:	mg/kg	Date Analyzed: 11/18/17 06:13	SU	RROGATE R	ECOVERY	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		113	100	113	70-135	
L			1				

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Work Orders : 568803, Lab Batch #: 3034040	Sample: 568546-001 S / MS	Batch	Project ID: n: 1 Matrix:	212C-MD-0 Soil	0990.08	
Units: mg/kg	Date Analyzed: 11/21/17 12:29	SU	RROGATE RE	ECOVERY S	STUDY	
BTEX b	y EPA 8021B nalytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	•	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene		0.0277	0.0300	92	80-120	
Lab Batch #: 3033989	Sample: 568546-001 SD / M	ASD Batch	n: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/18/17 06:34	SU	RROGATE RE	ECOVERY S	STUDY	
TPH By	SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	naryus	109	100	109	70.135	
o-Terphenyl		47.2	50.0	94	70-135	
Lab Batch #: 3034040	Sample: 568546-001 SD / N	47.2 ISD Batch	n: 1 Matrix:	Soil	70-133	
Units: mg/kg	Date Analyzed: 11/21/17 12:48	SU	RROGATE RE	ECOVERY S	STUDY	
BTEX b	y EPA 8021B nalytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0322	0.0300	107	80-120	
4-Bromofluorobenzene		0.0328	0.0300	109	80-120	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



BS / BSD Recoveries



Project Name: West Grama Ridge 6 Federal #4H

Work Order #: 568803							Proj	ect ID: 2	212C-MD-0	0990.08	
Analyst: ALJ	D	ate Prepar	ed: 11/21/201	7			Date A	nalyzed: 1	1/21/2017		
Lab Batch ID: 3034040 Sample: 7634836-1-	BKS	Batch	n #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ΟY	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	<0.00198	0.0992	0.122	123	0.0996	0.104	104	16	70-130	35	
Toluene	<0.00198	0.0992	0.114	115	0.0996	0.0967	97	16	70-130	35	
Ethylbenzene	<0.00198	0.0992	0.117	118	0.0996	0.0994	100	16	71-129	35	
m,p-Xylenes	< 0.00397	0.198	0.226	114	0.199	0.193	97	16	70-135	35	
o-Xylene	< 0.00198	0.0992	0.112	113	0.0996	0.0973	98	14	71-133	35	
Analyst: MNV	D	ate Prepar	ed: 11/27/201	.7			Date A	nalyzed: 1	1/28/2017		
Lab Batch ID: 3034266 Sample: 7634981-1-	BKS	Batch	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ΟY	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	258	103	250	245	98	5	90-110	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: West Grama Ridge 6 Federal #4H

Work Order #: 5688	803							Proj	ect ID: 2	212C-MD-0)0990.08	
Analyst: MNV		Da	ate Prepare	ed: 11/28/201	17			Date A	nalyzed: 1	1/28/2017		
Lab Batch ID: 3034324	4 Sample: 7634996-1-	-BKS	Batch	1#: 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K/BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUD	νY	
Inorganic Ani	ions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<5.00	250		06	250	227	05	1	00.110	20	
Chioride		<5.00	250	239	90	250	251	95	1	90-110	20	1 1
L		44					I	++		L		
Analyst: JUM		Da	ate Preparo	ed: 11/17/201	17	-	<u>I</u>	Date A	nalyzed: 1	1/18/2017		<u>ا</u>
Analyst: JUM Lab Batch ID: 3033989	Sample: 7634762-1-	-BKS	ate Preparo Batch	ed: 11/17/201	17		1	Date A	nalyzed: 1 Matrix: S	1/18/2017 Solid	<u>.</u>	<u> </u>
Analyst:JUMLab Batch ID:3033989Units:mg/kg	9 Sample: 7634762-1-	D: -BKS	ate Preparo Batch BLANI	ed: 11/17/201 n#: 1 K/BLANK \$	17 SPIKE / I	BLANK S	SPIKE DUP	Date A	nalyzed: 1 Matrix: 5 RECOVI	L 1/18/2017 Solid E RY STUD)Y	
Analyst: JUM Lab Batch ID: 3033989 Units: mg/kg TPH By Analytes	9 Sample: 7634762-1- 5y SW8015 Mod	D. -BKS Blank Sample Result [A]	ate Preparo Batch BLAN Spike Added [B]	ed: 11/17/20] n #: 1 K /BLANK S Blank Spike Result [C]	SPIKE / I Blank Spike %R [D]	BLANK S Spike Added [E]	SPIKE DUP Blank Spike Duplicate Result [F]	Date A:	nalyzed: 1 Matrix: 5 RECOVI RPD %	L 1/18/2017 Solid ERY STUE Control Limits %R)Y Control Limits %RPD	Flag
Analyst: JUM Lab Batch ID: 3033989 Units: mg/kg TPH B: Analytes Gasoline Range Hydro	9 Sample: 7634762-1- 5y SW8015 Mod	Di -BKS Blank Sample Result [A] <15.0	ate Prepar Batch BLAN Spike Added [B] 1000	ed: 11/17/20] n #: 1 K /BLANK S Blank Spike Result [C] 949	SPIKE / 1 Blank Spike %R [D] 95	BLANK S Spike Added [E] 1000	SPIKE DUP Blank Spike Duplicate Result [F] 909	Date A	nalyzed: 1 Matrix: 5 RECOVI RPD % 4	I 1/18/2017 Solid ERY STUE Control Limits %R 70-135	DY Control Limits %RPD 35	Flag

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: West Grama Ridge 6 Federal #4H

Work Order # :	568803						Project II): 212C-1	MD-0099	0.08		
Lab Batch ID:	3034040	QC- Sample ID:	568546	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	11/21/2017	Date Prepared:	11/21/2	017	An	alyst: A	ALJ					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample %B	Spike	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]	[0]	[D]	[E]	Kesutt [F]	[G]	/0			
Benzene		<0.00200	0.100	0.0942	94	0.0996	0.0959	96	2	70-130	35	
Toluene		< 0.00200	0.100	0.0852	85	0.0996	0.0883	89	4	70-130	35	
Ethylbenzene		< 0.00200	0.100	0.0860	86	0.0996	0.0823	83	4	71-129	35	
m,p-Xylenes		0.00654	0.200	0.169	81	0.199	0.162	78	4	70-135	35	
o-Xylene		< 0.00200	0.100	0.0870	87	0.0996	0.0821	82	6	71-133	35	
Lab Batch ID:	3034266	QC- Sample ID:	568780	-041 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	11/28/2017	Date Prepared:	11/27/2	017	An	alyst: N	ANV					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	nic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		1130	246	1230	41	246	1250	49	2	90-110	20	X
Lab Batch ID:	3034266	QC- Sample ID:	568801	-011 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	11/28/2017	Date Prepared:	11/27/2	017	An	alyst: N	ANV					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	nic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[~]	[D]	[E]		[G]				
				1	I					1	1	1

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries





Work Order # :	568803						Project II	D: 212C-1	MD-0099	0.08		
Lab Batch ID:	3034324	QC- Sample ID:	568803	-003 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	11/28/2017	Date Prepared:	11/28/2	017	Ar	alyst: N	MNV					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	nic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride		416	248	657	97	248	652	95	1	90-110	20	
Lab Batch ID:	3034324	QC- Sample ID:	568803	-012 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	11/28/2017	Date Prepared:	11/28/2	017	Ar	alyst: N	MNV					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	nic Anions by EPA 300/300.1	Parent Sample Bosult	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Kesuit [F]	%R [G]	% 0	%K	%KPD	
Chloride		53.5	246	306	103	246	300	100	2	90-110	20	
Lab Batch ID:	3033989	QC- Sample ID:	568546	-001 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	11/18/2017	Date Prepared:	11/17/2	017	Ar	alyst: J	UM					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
,	TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Kesult [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range	e Hydrocarbons (GRO)	16.7	1000	967	95	1000	922	91	5	70-135	35	
Diesel Range O	organics (DRO)	130	1000	1050	92	1000	1020	89	3	70-135	35	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

	Kellinquisned by:		Relinquished by:	Kelliiquisned by.	T-	-ī-		Ţ.	T-		Τ-	-T-	T-		(LAB USE)	LAB #		Comments: RI		Invoice to:	county, state)	Project Name:	Client Name:	(F)	Analysis Requ
				19 - C	9	1 8'	1 7'	1 6'	1 5'	1 4'	1 3'	1 2'	1	1 0-1'		SAN		un deeper samples i	y: Xenco	Cimarex	Lea Coun	West Gra	Cimarex	Te	lest of Chain of C
	Date: IIme:	1	Date: Time:		Dato.											APLE IDENTIFICATION		f benzene exceeds 10 mg/kg, total B			ity, New Mexico	ma Ridge 6 Federal #4H		tra Tech, Inc.	ustody Record
Temp: CF:(0-6: -0.2° (6-23: +0.2	Received by:	2	Received by:		1)9/2017	11/9/2017	11/9/2017	11/9/2017	11/9/2017	11/9/2017	11/9/2017	11/9/2017	11/9/2017	11/9/2017	DATE	YEAR:	SAMPLING	TEX exceeds 50 mg/kg	Sampler Signature:		Project #:		Site Manager:		
0)"(C) (C)				MAM, 1	×	×	×	×	×	×	×	×	×	×	WATER SOIL	2	MATRIX	, or TPH exceed	Mat McI		212C-M		Clair Gonz	4000 N. Big : 401 Midla Tel (43 Fax (43	
:: - -8	ate: Time:		ate: Time:	ate: Ime:Q		×	×	×	×	×	×	×	×	×	HCL HNO ₃ ICE		PRESERVATIVE METHOD	ls 5,000 mg/kg.	Daniel		ID-00990.08		ales	Spring Street. Ste nd, Texas 79705 2) 682-4559 12) 682-3946	
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Circle) HAND DELIV			ample Temperature	LAB USE	×									X	TPH TX1 TPH 801 PAH 827 Total Meta	005 5M (0C als A	(Ext to GRO -	C35) DRO - C a Cd Cr	DRO - I Pb Se	MRO) Hg Ha			(Circ)		
ERED FEDEX UP	Special R	Rush Cha	RUSH: S	REMARKS:											TCLP Vol TCLP Ser RCI GC/MS Vo	atiles mi Vo ol. 8 emi.	s blatiles 260B / Vol. 82	624 270C/62	5				ANALYSIS RI	26880	
S Tracking #:	eport Limits or TRF	irges Authorized	same Day 24 hr		×	X	X	×	×	X	×	×	×	×	PCB's 80 NORM PLM (Asb Chloride Chloride	esto Su	608 s) ulfate	TDS		é			EQUEST Mathod No	8	Page
	२P Report		48 hr 72 hr												General \ Anion/Ca	Wate tion	er Cher Balanc	nistry (s ce	ee atta	ached I	ist)	`	-		1 of
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	Date: Time:	Dene, TIIIte.	Date: Time:	Date: Time-	σ	7	<u>6</u> 2	QĪ	4'	i a	22	10			SAMPLE IDENTIFICATION		in deeper samples if benzene exceeds 10 mg/kg, total I	Xenco	Cimarex y:		Lea County, New Mexico	West Grama Ridge 6 Federal #4H	Cimarex	Tetra Tech, Inc.	uest of Chain of Custody Record
Temp: CF:(0-6: -0.2°C) (6-23: +0.2°C Corrected Temp	Received by:	Received by:	NOUL IN IN		11/17/2017	11/16/2017	11/15/2017	11/14/2017	11/13/2017	11/12/2017	11/11/2017	11/10/2017	11/9/2017	DATE	YEAR:	SAMPLING	3TEX exceeds 50 mg/kg		Complex Circle		Project #:		Site Manager:		
::))))))))))))))))))	Date: Time:	Date: Time:	ATA 11-17-17 9:		× × ×	× ;	× >	× 1	× : × :	× ×	× ×	×	×	WATER SOIL HCL HNO ₃ ICE		MATRIX PRESERVATIV METHOD), or TPH exceeds 5,000 mg/	Mat McDaniel			212C-MD-00990.0		Clair Gonzales	4000 N. Big Spring Street, St 401 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Circle) HAN		Sample Tem	00 LAB		X	<u> </u>			1 X X	# CONTA FILTEREI 3TEX 802 IPH TX10	INE D (Y 1B 005 (M ()	TRS (/N) BTEX (Ext to C GRO - [(8260B (8260B (335) (DRO - OF	RO - M	IRO)		∞			U					
ID DELIVERED FEDEX UPS Track	Rush Charges Au Special Report Lin	perature RUSH: Same Da	USE REMARKS:											PAH 8270 Total Metal CLP Meta CLP Volat CLP Semi CLP Semi CC/MS Vol CC/MS Ser CB's 8082 ORM	C Is Ag Ils A tiles i Vol . 82 ni. V 2 / 6	g As Ba g As Ba latiles 260B / 6. /ol. 827 08	Cd Cr Pl a Cd Cr P 24 '0C/625	o Se H b Se I	lg Hg	,		(Circle or Specify Me	ANALYSIS REQU	26880	
king #:	thorized nits or TRRP Report	3y 24 hr 48 hr 72 hr		×			×			×		>		LM (Asbes hloride hloride eneral Wa nion/Catic	Sul ater on B) fate Chemis alance	TDS stry (see	attac	hed li	st)		thod No.)	EST	22	Page2 of

		-	Relinguished by:	Relinquished by:		Relinquished by:							Т	-			(LAB USE)	LAB #			Comments.	Perceiving Laborato	county, state)	Project Name:	Client Name:	5
			Date: Time:	Date: Time:	All All	Date: Time:		2 - 2		<u>י</u> ב' ב' ב' בי			-1 3'	-1 2'	4 + -	-1 0-1'		SAMPLE IDENTIFICATION		Run deeper samples if benzene exceeds 10 mg/kg, tota	Xenco	Cimarex	Lea County, New Mexico	West Grama Ridge 6 Federal #4H	Cimarex	Tetra Tech, Inc
CF:(0-6: -0.2 (6-23: +0 Corrected Te	Tom D		Received by:	Received by:		Received by:	A19/2017	11020017	11021611	7 102/9/11	1102/8/11	44/0/0047	11/9/2017	11/9/2017	11/9/2017	11/9/2017	DATE	YEAR:	SAMPLING	BTEX exceeds 50 mg/l	sampler signature:	-	Project #:	-	Site Manager:	•
°C) IR ID:R-8	2		Data.	Date: Tim	Unital Wittin	Date: Tim	× >	< >	< >	< × ×	< >	< >	× :	X	X	x	WATER SOIL HCL HNO ₃ ICE		MATRIX PRESERVAT	kg, or TPH exceeds 5,000 mg	Mat McDaniel		212C-MD-00990.0		Clair Gonzales	4000 N. Big Spring Street, S1 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
		ä	2	e.	12:05	eiQ • • • • • •		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u>_</u>	-	<u> </u>	# CONTA FILTERE	INE D (Y	RS /N)	/kg.			80			e
	(Circle) HAND DELIVE			Sample Temperature	ONLY		×									XX	BTEX 802 TPH TX11 TPH 8015 PAH 8270 Total Meta TCLP Met	21B 005 5M (0C als A als A	BTE (Ext to GRO - g As B	X 82601 C35) DRO - C a Cd Cr 3a Cd Cr	B DRO - I Pb Se Pb Se	MRO) Hg Hg			()	
	RED FEDEX UPS	Special Repo	Rush Charge	RUSH: San		REMARKS:											TCLP Vola TCLP Sen RCI GC/MS Vo GC/MS Se PCB's 800	atiles ni Vo ol. 82 emi. 1	latiles 260B / Vol. 8:	624 270C/62	5				ANALYSIS REC	568803
	Tracking #:	ort Limits or TRRP R	∍s Authorized	ne Day 24 hr 48 ł			× ×	×	×		×	< >	× >	×	×	×	NORM PLM (Asbe Chloride Chloride General V	Su Vate	s) Ilfate r Cher	TDS nistry (s	ee atta	ached li	st)		QUEST	3
		eport		hr 72 hr													Hold		Jaidil	, , ,						

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	Date: Time:	Date: Time:		Data: Timo:	Q	7'	Q	<u>.</u>	4	<u>ω</u>	12	t f	0-1		SAMPLE IDENTIFICATION		deeper samples if benzene exceeds 10 mg/kg, total BT	Xenco	Cimarex		Lea County, New Mexico	West Grama Ridge 6 Federal #4H	Cimarex	Tetra Tech, Inc.	st of Chain of Custody Record
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) IR ID:R-8	Date: Time:	Date: Time:	ATA II.IT.I 9:		×	× × ×	×	×	X	X	X	X	×	WATER SOIL HCL HNO ₃ ICE	2	MATRIX PRESERVATIVE	, or TPH exceeds 5,000 mg/k	Mat McDaniel			212C-MD-0090 08		Clair Gonzales	4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
		S	00		-1					_	_	-	1	# CONTA	TAINEF RED (Y/	RS /N)	Ģ								
Circle) HAND DELIVE		LAB USE ONLY		~ ×								× ×	TPH TX1 TPH 801: PAH 827 Total Meta	21B 005 (5M (0 0C als Ag	GRO - I GRO - I g As Ba g As Ba	(8260B C35) DRO - O Cd Cr F a Cd Cr)RO - N Pb Se H Pb Se	1RO) Hg Hg			(Circ				
RED FEDEX UPS Trac	Special Report Lir	RUSH: Same Da	REMARKS:											TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi, Vol. 8270C/625 PCB's 8082 / 608 NORM							e or Specify Metl	ANALYSIS REQUE	568803		
king #:	nits or TRRP Report	3y 24 hr 48 hr 72	S.		× :	× ;	× >	× 1	× :	× 1	×	×	×	PLM (Asb Chloride Chloride General V Anion/Cat	Sul Vater Sul) Ifate Chem Balance	TDS histry (see attached list) e						ST		Page 2 c
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