SITE INFORMATION											
	F	Report Type	e: Work Pla	ın <u>1F</u>	RP-5001						
General Site Info	rmation:										
Site:		Jefe BSJ Fed (Com #1H								
Company:		EOG Resource	es, Inc.								
Section, Townsh	ip and Range	Unit O	Sec. 32	T 25S	R 32E						
Lease Number:		API No. 30-025	-40722								
County:		Lea County									
GPS:			32.0806° N			103.6	959º W				
Surface Owner:		State									
Mineral Owner:		From the internet	"			<u>00 4 fer 10 /</u>	4				
Directions:		From the intersec	ction of HWY 128 a	nd CR 1, tra	avel south on (CR 1 tor 10.4	4 miles, turn west onto				
		lease load tor i.e		0.9 mi, turn	l tast and con						
		J									
Release Data:											
Date Released:		3/21/2018									
Type Release:		Produced Wate	er								
Source of Contarr	nination:	Water Line									
Fluid Released:		75 bbls									
Fluids Recovered	<u> </u>	35 bbls									
Official Commun	nication:										
Name:	Zane Kurtz				Ike Tavarez	, ,					
Company:	FOG Resources				Tetra Tech	·					
Address:	5509 Champions Dr	rive			4000 N Big	Spring					
Addr000.						oping					
0.4											
City:	Midland, TX 79706					xas					
Phone number:	(432) 425-2023				(432) 687-8	110					
Fax:											
Email:	zane_kurtz@eogr	esources.com			Ike.Tavare	z@tetratecl	<u>h.com</u>				
Ranking Criteria											
Durit (= Oregonadu			De titre Caara			011- Dete					
Depth to Grounaw	ater:		Ranking Score			Site Data					
<50 n 50-00 ft			10	+							
>100 ft.			0			300' +					
WellHead Protection	on <u>:</u>		Ranking Score	T		Site Data					
Water Source <1,0	00 ft., Private <200 ft		20								
Water Source >1,0	00 ft., Private >200 ft.		0			0					
Surface Pody of M	V-104.		Denking Score			Site Data					
	/ater:			 		Sile Dala					
200 ft - 1,000 ft.			10	+							
>1,000 ft.			0			0					
То	otal Ranking Score										
	ſ	Acceptal	ole Soil RRAL (m	ig/kg)							
			· · · · · · · · · · · · · · · · · · ·								
		Benzene	Total BTEX	TPH							



APPROVED By Olivia Yu at 2:10 pm, Jun 06, 2018

May 24, 2018

NMOCD approves of the vertical delineation conducted for 1RP-5001 and the proposed additional delineation for the areas represented by T4 & T5. See email correspondence for conditions regarding the proposed remediation.

Ms. Olivia Yu Environmental Engineer Specialist Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Work Plan for the EOG Resources, Jefe BSJ Fed Com #1H, Unit O, Section 32, Township 25 South, Range 32 East, Lea County, New Mexico. 1RP-5001.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources, Inc. (EOG) to investigate and assess a release that occurred at the Jefe BSJ Fed Com #1H, Unit O, Section 32, Township 25 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.0806 °, W 103.6959°. 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 March 21, 2018, and released approximately seventy-five (75) barrels of produced water due to a ruptured water line. Vacuum trucks were dispatched to remove all freestanding fluids, recovering approximately thirty-five (35) barrels of produced water. The release occurred in the pasture and impacted an area measuring approximately 30' x 155' and 65' x 225'. The initial C-141 form is included in Appendix A.

Groundwater

No wells are listed within Section 32 in the New Mexico Office of the State Engineers (NMOSE) database, the USGS National Water Information System, or the Geology and Groundwater Conditions in Southern Lea County, NM (Report 6). However, the NMOSE database lists one well in Section 6, Township 26 South, Range 32 East, located approximately 1.65 miles southwest of the site, with a reported depth to groundwater of 350' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is greater than 300' below surface. 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 March 29, 2018, Tetra Tech personnel were onsite to evaluate and sample the release area with a backhoe. A total of six (6) sample trenches (T-1 through T-6) were installed in the spill footprint to total depths ranging from 2.0' and 10.0' below surface. Selected samples were analyzed for total petroleum hydrocarbons (TPH) by method 8015 extended, BTEX by method 8021, and chlorides by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix D. The sampling results are summarized in Table 1. The trench locations are shown in Figure 3.

Benzene and Total BTEX

Referring to Table 1, all of the trenches did not show any benzene or total BTEX concentrations above the RRALs, with the exception of T-4. Trench (T-4) showed a benzene concentration of 12.6 mg/kg and a total BTEX concentration of 597 mg/kg at 0-1' below surface. The benzene and total BTEX concentrations in the area then declined with depth to below the RRALs at 2.0' below surface.

TPH

The areas of trenches (T-1 and T-4) did not showed TPH concentrations above the RRAL. The areas of T-2, T-3, T-5, and T-6 showed TPH impact to the shallow soils (0-1'), with TPH highs of 5,710 mg/kg, 10,900 mg/kg, 180,000 mg/kg, and 5,870 mg/kg, respectively. The TPH concentrations declined below the RRAL at 2.0' below surface.

Chloride

The areas of trenches (T-1, T-2, T-3, and T-6) showed elevated chloride concentrations to the shallow soils with concentrations of 4,960 mg/kg, 13,200 mg/kg, 16,600 mg/kg, and 3,960 mg/kg at 0-1' below surface, respectively. The chlorides in these areas then declined with depth to below the 600 mg/kg threshold at depths ranging from 2.0' and 6.0' below surface. However, the areas of trenches (T-4 and T-5) showed bottom trench concentrations of 1,900 mg/kg and 1,930 mg/kg at 4.0' below surface. Deeper samples were not collected due to a dense formation in the area and the chloride impact was not vertically defined.

Work Plan

Based on the laboratory results, EOG proposes to remove the impacted soils as shown on Figure 4 and highlighted (green) on Table 1. To remove the impacted soils above the RRALs, the areas of trenches (T-1 and T-3) will be excavated to approximately 1.0' to 2.0' below surface, the area of trench (T-2) will be excavated to approximately 6.0', and the areas of trenches (T-4, T-5, and T-6) will be excavated to approximately 4.0' below surface.



During the excavation activities, the chloride concentrations in the areas of trenches (T-4 and T-5) will be vertically defined. Based on the data, the areas will either be excavated to the appropriate depth or capped with a 40-mil liner to prevent vertical migration. However, if the chloride impact is not vertically defined during the excavation, the areas will be capped at 4.0' and then assessed with a drilling rig to define extents.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, EOG will excavate the impacted soils to the maximum extent practicable.

Revegetation Plan

The backfilled areas will be seeded in June 2018 in order to coincide with the rainy season in Southeastern New Mexico to aid in revegetation. Based on the soils at the site, the NMSLO Loamy (L) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix C.

Conclusion

Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted, TETRA TECH

11 Congalos

Clair Gonzales, Project Manager

Ike Tavarez, Senior Project Manager, P.G.

Ryan Mann – NMSLO Jamone Hohensee - EOG

Figures



Mapped By: Isabel Marmolejo







Tables

Table 1 EOG Resources Jefe BSJ Fed. Com. 1H Lea County, New Mexico

Sample ID	Sample	Sample	BEB	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	Depth (in)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
T-1	3/29/2018	0-1	-	Х		<15.0	34.3	<15.0	34.3	< 0.00201	< 0.00201	<0.00201	< 0.00201	< 0.00201	4,960
		2	-	Х		<15.0	53.5	<15.0	53.5	<0.00199	<0.00199	<0.00199	< 0.00199	<0.00199	454
T-2	3/29/2018	0-1	_	Х		124	4 390	1 200	5 710	0.00714	0.0172	<0.00200	0.0133	0.0377	13 200
	"	2	-	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	168
		4	-	X		-	-	-	-	-	-	-	-	-	1.080
		6	-	X		-	_	-	-	-	-	-	-	-	1.040
		8	-	X		-	-	-	-	-	-	-	-	-	346
		10	-	X		-	-	-	-	-	-	-	-	-	61
T-3	3/29/2018	0-1	-	Х		84.2	8,690	2,170	10,900	0.00279	0.0116	0.00230	0.0191	0.0358	16,600
		2	-	х		<15.0	25.9	<15.0	88.5	< 0.00199	< 0.00199	<0.00199	< 0.00199	<0.00199	2,110
	"	4	-	Х		1	-	1	-	-	-	-	-	-	289
	"	6	-	Х		-	-	-	-	-	-	-	-	-	82.0
	"	8	-	Х		-	-	-	-	-	-	-	-	-	114
T-4	3/29/2018	0-1	-	Х		51.4	929	141	1,120	< 0.00200	0.00354	<0.00200	0.0642	0.0677	3,430
	"	2	-	Х		<15.0	21.8	<15.0	21.8	< 0.00202	< 0.00202	<0.00202	< 0.00202	< 0.00202	1,810
		4	-	Х		-	-	-	-	-	-	-	-	-	1,900
T-5	3/29/2018	0-1	-	Х		56,300	106,000	18,000	180,000	12.6	186	43.6	355	597	20,100
		2	-	Х		<15.0	22.4	<15.0	22.4	< 0.00200	0.00337	<0.00200	0.00672	0.0101	6,720
		4	-	Х		-	-	-	-	-	-	-	-	-	1,930
T-6	3/29/2018	0-1	-	Х		158	4.670	1.040	5.870	< 0.00200	0.00388	0.00920	0.106	0.119	3.960
	"	2	-	X		<15.0	72.9	<15.0	72.9	< 0.00199	< 0.00199	< 0.00199	0.00685	0.00685	3.850
	"	4	-	X		-	-	-	-	-	-	-	-	-	2,000
		6	-	х		-	-	-	-	-	-	-	-	-	26.7

(-)

Not Analyzed

Proposed Excavation Depths

Photos

EOG Resources El Jefe BSJ Fed Com #1H Lea County, New Mexico



View North – Area of AH-1 and AH-2



View South – Area of AH-3

EOG Resources El Jefe BSJ Fed Com #1H Lea County, New Mexico



View West – Area of AH-4



View West – Area of AH-5

EOG Resources El Jefe BSJ Fed Com #1H Lea County, New Mexico



View East – Area of AH-6

Appendix A

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	Fe, NM 87	505								
Release Notificati	on and C	orrective A	ction							
	OPERA	TOR	🖂 Initi	al Report 🔲 Fin	nal Repo					
Name of Company EOG Resources, Inc	Contact Ja	mon Hohensee								
Address 5509 Champions Drive, Midland, Texas 79706	Telephone	No. 432-556-80	74							
Facility Name: Jefe BSJ Fed Com 1H	Facility Type: Production facility									
Surface Owner Ctoto	State	Pletoto								
State	30-025-40722									
LOCATI	ON OF RE	LEASE								
O 32 25S 32E	nn/South Line	Feet from the	East/West Line	Lea]					
Latitude32.0806	Longitud	e103.69	059							
NATUR	E OF REL	EASE								
Type of Release PW flowline break	Volume o	f Release 75bbls	Volume I	Recovered 35bbls						
Source of Release PW flowline	3/21/18 3:	30PM	3/21/18							
Was Immediate Notice Given?	If YES, To	o Whom?								
By Whom?	Date and I	Hour								
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.									
Describe Cause of Problem and Remedial Action Taken.* On 3/21/18 a produced water line burst and released approx. 75bbl to t consultant will go out and delineate spill area and collect samples. San impacted soil and properly remove and dispose of impacted soil. Then Describe Area Affected and Cleanup Action Taken.* Site is desert scrub with no water identified. Vacuum trucks removed f I hereby certify that the information given above is true and complete t regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report	the area 40ft west to be best of my the notifications at the NMOCD m diate contaminant rt does not reliev	t of the pad locati lyzed and a work kfilled with clean aids at location. whowledge and u nd perform correct barked as "Final R ion that pose a thr we the operator of	on. 35bbls of fluid plan will be submi material to normal understand that purs ctive actions for rel- ceport" does not rel reat to ground water responsibility for e	was recovered. 3'd par tted to go out and excav grade. suant to NMOCD rules eases which may endan ieve the operator of liab r, surface water, human ompliance with any oth	and ger bility health her					
		OIL CON	SERVATION	DIVISION						
Printed Name: Jamon Hohensee	Approved by	Environmental S	pecialist:							
Title: Environmental Representative	Approval Da	te: 3/28/201	8 Expiration	Date:						
E-mail Address: jamon_hohensee@eogresources.com	Conditions o	f Approval:	_	Attached						
Date: 3/27/18 Phone:4325568074	see atta	cned airecti	ve							

1RP-5001

nOY1808740822

pOY1808741062

Appendix B

Water Well Data Average Depth to Groundwater (ft) EOG - Jefe BSJ Fed Com 1H Lea County, New Mexico

	24 S	outh	3	1 East	t		1	24 S	outh	3	2 East	
6	5	4	3	2	1	6	5		4	3	2	1
		Maljam	ar	192								
	8	9	10	11	12	7	8		9	10	11	12
										20		
8	17	16	15	14	13	18	1	7	16	15	14	13
9	20	21	22	23	24	19	2	0	21	22	23	24
0	29	28	27	26	25	30	2	9	28	27	26	25
1	32	33	34	35	36	31	3	2	33	34	35	36
									290			
	25 S	outh	3	1 East	t i			25 So	outh	3	2 East	
6	5	4	3	2	1	6	5		4	3	2	1
	8	9	10	11	12	7	8		9	10	11	12
8	17	16	15	14	13	18	1	7	16	15	14	13
9	20	21 390	22	23	24	19	2	0	21	22	23	24
0	20	200	~~	20	2.1	10	-		2.		20	- 1
0	29	28	27	26	25	30	2	9	28	27	26	25
31	32	33	34	35	36	31	3	2	33	34	35	36
				4 5				00.0.			0 5 (
<u> </u>	26.5	outh	3	1 East		_	0.50 5	26 50	buth	3.	2 East	14
6	5	4	3	2	1 335 287	6	350 5		4	3	2	1
7	8 295	9	10	11	12	7	8		9	10	11	12
	275											
18	17	16	15	14	13	18	1	7	16	15	14	13
9	20	21	22	23	24	19	2	0	21 333	22	23	24
0	29	28	27	26	25	30	2	9	1 80 28	27	26	25
			1				1		1			

	24 So	outh	33	East	
6	5	4	3	2	1
7	8	9	10 24.6	11	12
18	17	16	15	14	13
19	20	21	22	23 208	24 16.9
30	29	28	27	26	25
31	32	33 <mark>93.2</mark>	34	35	36

	25 Sc	outh	33	East	
6	5	4	3 172	2	1
7	8	9	10	11 140	12 200
18	17	16	15	14	13
19	20 200	21 120	22	23	24
30	29	28	27 125	26	25
31 257	32	33	34	35	36

-	26 Sc	outh	33	East				
6	5	4	3	2	1			
			175					
7	8	9	10	11	12			
				145	200			
18	17	16	15	14	13			
				135				
19	20	21	22	23	24			
		120						
30	29	28	27	26	25			
			125					
31	32	33	34	35	36			

88 New Mexico State Engineers Well Reports

35

36

34

105 USGS Well Reports

33

32

31

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)

32

31 **295** 33

34

35

36

- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location

A CONTRACTOR OF	Wat	Na er	ew M Col	le. U	xi I n	ico n	o (n/	Offi A	ice c Ver	of the age	State E	Engineer th to V	Vate	r
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphar C=the file closed)	has been ned, e is	(qu (qu	(quarters are 1=NW 2=NE (quarters are smallest to la			E 3=SW argest)	4=SE) (NAD8	3 UTM in meter	s) ((In feet)			
		POD		0	~	~								
POD Number	Code	Sub- basin	County	Q 64	Q 16	Q 4	Sec	Twe	Rno	x	v	DenthWellDent	W hWater Co	/ater
<u>C 02271</u>	R	CUB	LE	04	2	3	21	26S	32E	624449	3544111* 🦲	150	125	25
<u>C 02271 POD2</u>		CUB	LE	3	2	3	21	26S	32E	624348	3544010* 🧧	270	250	20
<u>C 02274</u>		CUB	LE	2	1	2	31	26S	32E	621742	3541730* 🧉	300	295	5
<u>C 02323</u>		С	LE	3	2	3	21	26S	32E	624348	3544010* 🤤	405	405	0
<u>C 03537 POD1</u>		CUB	LE	3	2	3	21	26S	32E	624250	3543985 🌍	850		
<u>C 03595 POD1</u>		CUB	LE	4	2	3	21	26S	32E	624423	3544045 🌍	280	180	100
<u>C 03829 POD1</u>		CUB	LE	3	3	1	06	26S	32E	620628	3549186 🌍	646	350	296
											Average Depth	to Water:	267 fee	t
											Minim	um Depth:	125 fee	t
											Maximu	um Depth:	405 fee	t
Record Count: 7														
PLSS Search:														
Township: 26S	Range:	32E												

*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.

4/24/18 12:57 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C

Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 200 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 25 inches: loamy fine sand Bt - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s

USDA

Hydrologic Soil Group: A *Ecological site:* Loamy Sand (R042XC003NM) *Hydric soil rating:* No

Minor Components

Maljamar

Percent of map unit: 8 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Palomas

Percent of map unit: 7 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 14, Sep 10, 2017

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	MMON NAME VARIETY		DRILL BOX	
Grasses:				
Black grama	VNS, Southern	1.0	D	
Blue grama	Lovington	1.0	D	
Sideoats grama	Vaughn, El Reno	4.0	F	
Sand dropseed	VNS, Southern	2.0	ŝ	
Alkali sacaton	VNS, Southern	1.0	-	
Little bluestem	Cimarron, Pastura	1.5	F	
<u>Forbs:</u> Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D	
Shrubs:				
Fourwing saltbush	Marana, Santa Rita	1.0	D	
Common winterfat	VNS, Southern	0.5	F	
	Total PLS/a	cre 18.0		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



Appendix D

Analytical Report 581006

for Tetra Tech- Midland

Project Manager: Ike Tavarez

El Jefe BSJ Fed. Comm 1H

212C-MD-01166

13-APR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-14) 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) Xenco-Atlanta (LELAP Lab ID #04176)



13-APR-18

SUP ACCREDIES

Project Manager: **Ike Tavarez Tetra Tech- Midland** 4000 N. Big Spring Suite 401 Midland, TX 79705

Reference: XENCO Report No(s): **581006 El Jefe BSJ Fed. Comm 1H** Project Address: Lea County, New Mexico

Ike Tavarez:

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) 581006. 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. 581006 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,

Huns hoah

Kelsey Brooks Project 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 581006



Tetra Tech- Midland, Midland, TX

El Jefe BSJ Fed. Comm 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1 (0-1')	S	03-29-18 00:00		581006-001
T-1 (2')	S	03-29-18 00:00		581006-002
T-2 (0-1')	S	03-29-18 00:00		581006-003
T-2 (2')	S	03-29-18 00:00		581006-004
T-2 (4')	S	03-29-18 00:00		581006-005
T-2 (6')	S	03-29-18 00:00		581006-006
T-2 (8')	S	03-29-18 00:00		581006-007
T-2 (10')	S	03-29-18 00:00		581006-008
T-3 (0-1')	S	03-29-18 00:00		581006-009
T-3 (2')	S	03-29-18 00:00		581006-010
T-3 (4')	S	03-29-18 00:00		581006-011
T-3 (6')	S	03-29-18 00:00		581006-012
T-3 (8')	S	03-29-18 00:00		581006-013
T-4 (0-1')	S	03-29-18 00:00		581006-014
T-4 (2')	S	03-29-18 00:00		581006-015
T-4 (4')	S	03-29-18 00:00		581006-016
T-5 (0-1')	S	03-29-18 00:00		581006-017
T-5 (2')	S	03-29-18 00:00		581006-018
T-5 (4')	S	03-29-18 00:00		581006-019
T-6 (0-1')	S	03-29-18 00:00		581006-020
T-6 (2')	S	03-29-18 00:00		581006-021
T-6 (4')	S	03-29-18 00:00		581006-022
T-6 (6')	S	03-29-18 00:00		581006-023



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: El Jefe BSJ Fed. Comm 1H

Project ID: 212C-MD-01166 Work Order Number(s): 581006 Report Date: 13-APR-18 Date Received: 04/02/2018

Sample receipt non conformances and comments:

Client took Sample 017 & 018 off hold 04/09/18 JKR

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3045521 Inorganic Anions by EPA 300/300.1

Lab Sample ID 581006-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 581006-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3045540 TPH By SW8015 Mod

Diesel Range Organics (DRO), Gasoline Range Hydrocarbons (GRO) RPD was outside laboratory control limits.

Samples in the analytical batch are: 581006-001, -002, -003, -004, -009, -010, -014, -015, -020, -021

Batch: LBA-3045673 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3045718 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3046232 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3046412 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Ike Tavarez

Lea County, New Mexico

Contact:

Project Location:

Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

	Lab Id:	581006-0	01	581006-0	002	581006-0	003	581006-	004	581006-0	05	581006-006	
Amaluaia Dogwootod	Field Id:	T-1 (0-1)	T-1 (2))	T-2 (0-1	1')	T-2 (2)	T-2 (4'))	T-2 (6)
Analysis Kequesiea	Depth:												
	Matrix:	SOIL		SOIL	SOIL		,	SOIL	,	SOIL		SOIL	
	Sampled:	Mar-29-18	00:00	Mar-29-18 00:00		Mar-29-18 00:00		Mar-29-18 00:00		Mar-29-18 (00:00	Mar-29-18	00:00
BTEX by EPA 8021B	Extracted:	Apr-03-18 17:00		Apr-04-18 12:00		Apr-04-18 12:00		Apr-04-18 12:00					
	Analyzed:	Apr-03-18	Apr-03-18 22:33		Apr-04-18 20:38		Apr-04-18 20:57		21:16				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		< 0.00201	<0.00201 0.00201		0.00199	0.00714	0.00200	< 0.00200	0.00200				
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	0.0172	0.00200	< 0.00200	0.00200				
Ethylbenzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200				
m,p-Xylenes		< 0.00402	0.00402	< 0.00398	0.00398	0.00949	0.00399	< 0.00401	0.00401				
o-Xylene		< 0.00201	0.00201	< 0.00199	0.00199	0.00383	0.00200	< 0.00200	0.00200				
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	0.0133	0.00200	< 0.00200	0.00200				
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	0.0377	0.00200	< 0.00200	0.00200				
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-02-18	17:30	Apr-02-18 17:30		Apr-02-18 17:30		Apr-02-18 17:30		Apr-02-18 17:30		Apr-02-18 17:30	
	Analyzed:	Apr-03-18	05:33	Apr-03-18 ()5:17	Apr-03-18	05:38	Apr-03-18	05:44	Apr-03-18 05:49		Apr-03-18 06:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4960	49.5	454	4.98	13200	99.0	168	4.96	1080	4.98	1040	4.97
TPH By SW8015 Mod	Extracted:	Apr-03-18 (09:00	Apr-03-18 (09:00	Apr-03-18	09:00	Apr-03-18	09:00				
	Analyzed:	Apr-03-18	13:55	Apr-03-18	14:20	Apr-03-18	14:45	Apr-03-18	15:08				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	124	15.0	<14.9	14.9				
Diesel Range Organics (DRO)		34.3	15.0	53.5	15.0	4390	15.0	<14.9	14.9				
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	1200	15.0	<14.9	14.9				
Total TPH		34.3	15.0	53.5	15.0	5710	15.0	<14.9	14.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Project Id:212C-MD-01166Contact:Ike TavarezProject Location:Lea County, New Mexico

Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

	Lab Id:	581006-0	007	581006-0	008	581006-	009	581006-	010	581006-0)11	581006-0	012
Analysis Paguested	Field Id:	T-2 (8')	T-2 (10	')	T-3 (0-	1')	T-3 (2	')	T-3 (4')	T-3 (6	')
Analysis Kequesiea	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00
BTEX by EPA 8021B	Extracted:					Apr-04-18	12:00	Apr-04-18	12:00				
	Analyzed:					Apr-04-18	21:36	Apr-04-18	21:55				
	Units/RL:					mg/kg	RL	mg/kg	RL				
Benzene						0.00279	0.00201	< 0.00199	0.00199				
Toluene						0.0116	0.00201	< 0.00199	0.00199				
Ethylbenzene						0.00230	0.00201	< 0.00199	0.00199				
m,p-Xylenes						0.0142	0.00402	< 0.00398	0.00398				
o-Xylene						0.00486	0.00201	< 0.00199	0.00199				
Total Xylenes						0.0191	0.00201	< 0.00199	0.00199				
Total BTEX						0.0358	0.00201	< 0.00199	0.00199				
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30
	Analyzed:	Apr-03-18	06:10	Apr-03-18 (06:15	Apr-03-18	06:21	Apr-03-18	06:26	Apr-03-18)6:31	Apr-03-18	06:47
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		346	4.99	60.6	4.99	16600	250	2110	24.9	289	4.96	82.0	5.00
TPH By SW8015 Mod	Extracted:					Apr-03-18	09:00	Apr-03-18	09:00				
	Analyzed:					Apr-04-18	08:35	Apr-03-18	16:43				
	Units/RL:					mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)						84.2	74.7	<15.0	15.0				
Diesel Range Organics (DRO)						8690	74.7	25.9	15.0				
Oil Range Hydrocarbons (ORO)						2170	74.7	<15.0	15.0				
Total TPH						10900	74.7	88.5	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Project Id:212C-MD-01166Contact:Ike TavarezProject Location:Lea County, New Mexico

Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

	Lab Id:	581006-0)13	581006-0)14	581006-0	015	581006-0)16	581006-0)17	581006-	018
Analysis Paguested	Field Id:	T-3 (8')	T-4 (0-1	1')	T-4 (2)	T-4 (4')	T-5 (0-1	')	T-5 (2	.')
Analysis Kequestea	Depth:												
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		SOII	
	Sampled:	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00
BTEX by EPA 8021B	Extracted:			Apr-04-18	12:00	Apr-04-18	12:00			Apr-11-18 (08:15	Apr-10-18	08:00
	Analyzed:			Apr-04-18	22:14	Apr-04-18	22:33			Apr-11-18	12:35	Apr-10-18	15:50
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
Benzene				< 0.00200	0.00200	< 0.00202	0.00202			12.6	0.996	< 0.00200	0.00200
Toluene				0.00354	0.00200	< 0.00202	0.00202			186	0.996	0.00337	0.00200
Ethylbenzene				< 0.00200	0.00200	< 0.00202	0.00202			43.6	0.996	< 0.00200	0.00200
m,p-Xylenes				0.0218	0.00399	< 0.00403	0.00403			257	1.99	0.00438	0.00400
o-Xylene				0.0424	0.00200	< 0.00202	0.00202			97.7	0.996	0.00234	0.00200
Total Xylenes				0.0642	0.00200	< 0.00202	0.00202			355	0.996	0.00672	0.00200
Total BTEX				0.0677	0.00200	< 0.00202	0.00202			597	0.996	0.0101	0.00200
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30	Apr-02-18	17:30
	Analyzed:	Apr-03-18	06:53	Apr-03-18	07:08	Apr-03-18	07:14	Apr-03-18)7:19	Apr-03-18 (07:24	Apr-03-18	07:30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		114	4.98	3430	24.9	1810	24.8	1900	24.9	20100	249	6720	49.9
TPH By SW8015 Mod	Extracted:			Apr-03-18	09:00	Apr-03-18	09:00			Apr-09-18	12:00	Apr-09-18	12:00
	Analyzed:			Apr-03-18	17:07	Apr-03-18	17:29			Apr-09-18	18:41	Apr-09-18	18:20
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)				51.4	15.0	<15.0	15.0			56300	748	<15.0	15.0
Diesel Range Organics (DRO)				929	15.0	21.8	15.0			106000	748	22.4	15.0
Oil Range Hydrocarbons (ORO)				141	15.0	<15.0	15.0			18000	748	<15.0	15.0
Total TPH				1120	15.0	21.8	15.0			180000	748	22.4	15.0

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Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Project Id:212C-MD-01166Contact:Ike TavarezProject Location:Lea County, New Mexico

Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

			1								1
Lab Id:	581006-0)19	581006-0	020	581006-	021	581006-0	022	581006-0	23	
Field Id:	T-5 (4')	T-6 (0-	1')	T-6 (2)	T-6 (4')	T-6 (6)	
Depth:											
Matrix:	SOIL		SOIL	,	SOIL		SOIL		SOIL		
Sampled:	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	Mar-29-18	00:00	
Extracted:			Apr-04-18	12:00	Apr-04-18	12:00					
Analyzed:			Apr-04-18	22:53	Apr-04-18	23:12					
Units/RL:			mg/kg	RL	mg/kg	RL					
			< 0.00200	0.00200	< 0.00199	0.00199					
			0.00388	0.00200	< 0.00199	0.00199					
			0.00920	0.00200	< 0.00199	0.00199					
			0.0721	0.00401	0.00447	0.00398					
			0.0336	0.00200	0.00238	0.00199					
			0.106	0.00200	0.00685	0.00199					
			0.119	0.00200	0.00685	0.00199					
Extracted:	Apr-02-18	17:30	Apr-02-18	17:30	Apr-03-18	15:05	Apr-03-18	15:05	Apr-03-18	5:05	
Analyzed:	Apr-03-18	07:35	Apr-03-18	07:40	Apr-03-18	15:46	Apr-03-18	15:51	Apr-03-18	5:30	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	1930	24.9	3960	25.0	3850	25.0	2000	25.0	26.7	4.95	
Extracted:			Apr-03-18	09:00	Apr-03-18	09:00					
Analyzed:			Apr-03-18	17:53	Apr-03-18	18:14					
Units/RL:			mg/kg	RL	mg/kg	RL					
			158	15.0	<15.0	15.0					
			4670	15.0	72.9	15.0					
			1040	15.0	<15.0	15.0					
			5870	15.0	72.9	15.0					
	Lab Id: Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Lab Id:581006-0Field Id:T-5 (4')Depth:Matrix:Matrix:SOILSampled:Mar-29-18Extracted:Mar-29-18Extracted:Mar-29-18Extracted:Analyzed:Units/RL:Image: Constraint of the second sec	Lab Id: 581006-019 Field Id: T-5 (4') Depth: Matrix: Matrix: SOIL Sampled: Mar-29-18 00:00 Extracted: Mar-29-18 00:00 Extracted: Mar-29-18 00:00 Extracted: Mar-29-18 00:00 Extracted: Analyzed: Units/RL:	Lab Id: 581006-019 581006-01 Field Id: T-5 (4') T-6 (0- Depth: Matrix: SOIL SOIL Matrix: SOIL Mar-29-18 Mar-29-18 Sampled: Mar-29-18 00:00 Mar-29-18 Mar-29-18 Extracted: Apr-04-18 Apr-04-18 Maits/RL: mg/kg Units/RL: 0.00388 0.00920 0.00920 0.00336 0.00336 0.00020 0.00336 0.0106 0.119 Extracted: Apr-02-18 17:30 Apr-02-18 Manlyzed: Apr-03-18 07:35 Apr-03-18 Units/RL: mg/kg RL mg/kg 1930 24.9 3960 3960 Extracted: Apr-03-18 Apr-03-18 Mg/kg Units/RL: mg/kg 158 158 Units/RL: 158 158 4670 Units/RL: 1040 5870 1040	Lab Id: 581006-019 581006-020 Field Id: T-5 (4') T-6 (0-1') Depth: SOIL SOIL Matrix: SOIL Mar-29-18 00:00 Extracted: Mar-29-18 00:00 Mar-29-18 00:00 Extracted: Apr-04-18 12:00 Analyzed: Apr-04-18 22:53 Units/RL: mg/kg RL <0.00200 0.00200 0.00388 0.00200 0.00200 0.00388 0.00200 0.00200 0.00336 0.00200 0.0106 0.00200 0.00200 0.119 0.00200 Apr-02-18 17:30 Apr-02-18 17:30 Analyzed: Apr-03-18 07:35 Apr-03-18 07:40 Units/RL: mg/kg RL 1930 24.9 3960 25.0 Extracted: Apr-03-18 09:00 Apr-03-18 17:53 Units/RL: mg/kg RL 158 Units/RL: mg/kg RL 158 Units/RL: 158 15.0 Units/RL: 15	Lab Id: 581006-019 581006-020 581006- Field Id: T-5 (4') T-6 (0-1') T-6 (2 Depth: SOIL SOIL SOIL SOIL Sampled: Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 OOID Sampled: Mar-29-18 00:00 Mar-29-18 12:00 Apr-04-18 I2:00 Apr-04-18 Matyzed: Apr-04-18 I2:00 Apr-04-18 I2:00 Apr-04-18 Units/RL: mg/kg RL mg/kg RL mg/kg 0:00388 0.00200 0.00200 <0.00199	Lab Id: 581006-019 581006-020 581006-021 Field Id: T-5 (4') T-6 (0-1') T-6 (2') Depth: Matrix: SOIL SOIL SOIL Sampled: Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Extracted: Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Image: Apr-04-18 12:00 Apr-04-18 12:00 Apr-04-18 2:312 Mar-29-18 00:00 Image: Mar-29-18 00:00 Apr-04-18 12:00 Apr-04-18 2:312 Mar-29-18 00:00 Image: Mar-29-18 00:00 Apr-04-18 2:53 Apr-04-18 2:312 Mar-29-18 00:00 Image: Mary RL mg/kg RL mg/kg RL Image: 0.00200 0.00200 <0.00199	Lab Id: 581006-019 581006-020 581006-021 581006-021 Field Id: T-5 (4') T-6 (0-1') T-6 (2') T-6 (4') Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: Mar-29-18 00:00 Mar-29-18 00:00	Lab Id: 581006-019 581006-020 581006-021 581006-022 Field Id: T-5 (4') T-6 (0-1') T-6 (2) T-6 (4') Depth: Matrix: SOIL SOIL SOIL SOIL SOIL Sampled: Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Mar-29-18 00:00 Extracted: Apr-04-18 12:00 Apr-04-18 12:00 Apr-04-18 23:12 Mar-29-18 00:00 Mar-29-18 00:00 Units/RL: mg/kg RL mg/kg RL mg/kg RL 0.00388 0.00200 -0.00199 0.0199 0.0199 0.0199 0.00721 0.00401 0.00447 0.00398 0.00199 0.0199 0.00721 0.00401 0.00447 0.00398 0.0199 0.0199 0.0106 0.00200 0.00208 0.00199 0.0199 0.0199 0.0106 0.00200 0.00685 0.0199 0.0199 0.0199 0.0119 0.0100 0.00685 0.0199 0.0199	Lab Id: 581006-019 581006-020 581006-021 581006-022 581006-021 581006-021 581006-022 581006-021 581006-022 581006-021 581006-021 581006-021 T-6 (4') T-6 (6') T-6 (6') Depth: Matrix: SOIL SOIL SOIL SOIL SOIL Mar-29-18 00:00 Mar-03-18 17:50 Mar-03-18 15:51	Lab Id: 581006-019 581006-020 581006-021 581006-022 581006-023 Field Id: T-5 (4) T-6 (0-1) T-6 (2) T-6 (4) T-6 (6) Matrix: SOIL SOIL SOIL SOIL SOIL Mar-29-18 00:00 Mar-29-18 00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Huns Boah

Kelsey Brooks Project Manager



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 LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Laboration	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	r ders : 58100 #: 3045540	6, Sample: 581006-001 / SMP	Batch	Project ID: : 1 Matrix:	212C-MD-0 Soil)1166	
Units:	mg/kg	Date Analyzed: 04/03/18 13:55	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes					
1-Chlorooct	tane		91.4	99.7	92	70-135	
o-Terpheny	1		47.5	49.9	95	70-135	
Lab Batch	#: 3045540	Sample: 581006-002 / SMP	Batch	: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 04/03/18 14:20	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		91.8	99.9	92	70-135	
o-Terpheny	1		48.9	50.0	98	70-135	
Lab Batch	#: 3045540	Sample: 581006-003 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/03/18 14:45	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlorooct	tana	Anarytes	80.1	00.8	80	70.125	
o Terpheny	1		69.1	40.0	09	70-135	
Lob Botch	¹ #• 3045540	Sample: 581006.004 / SMP	42.0	49.9		/0-135	
LaD Daten	#: 3043340	D 44 A $= 1 = 1.04/02/18.15:08$	Datch		. 5011		
Units:	mg/kg	Date Analyzed: 04/03/18 15:08	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		89.0	99.6	89	70-135	
o-Terpheny	1		45.2	49.8	91	70-135	
Lab Batch	#: 3045540	Sample: 581006-010 / SMP	Batch	: 1 Matrix	Soil		
Units:	mg/kg	Date Analyzed: 04/03/18 16:43	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		89.8	99.9	90	70-135	
o Tombony	1		1.5 -		-		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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or	ders : 581000	5, Sample: 581006-014 / SMP	Rotel	Project ID:	212C-MD-0)1166	
Units:	mg/kg	Date Analyzed: 04/03/18 17:07	SU	RROCATE R	FCOVERV	STUDV	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		108	99.7	108	70-135	
o-Terpheny	1		53.5	49.9	107	70-135	
Lab Batch	#: 3045540	Sample: 581006-015 / SMP	Batcl	h: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 04/03/18 17:29	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		108	99.8	108	70-135	
o-Terpheny	1		55.7	49.9	112	70-135	
Lab Batch	#: 3045540	Sample: 581006-020 / SMP	Batch	h: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 04/03/18 17:53	SU	RROGATE R	ECOVERYS	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1.011		Analytes			[2]		
1-Chlorooct	tane		99.4	99.7	100	70-135	
I ah Datah	1 #- 2045540	Sample: 591006 021 / SMD	48.3	49.9	9/	70-135	
Lab Batch	#: 3045540	Sample: 581006-0217 SMP	Batci	h: 1 Matrix:	5011		
Units:	mg/kg	Date Analyzed: 04/03/18 18:14	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		92.8	99.9	93	70-135	
o-Terpheny	1		47.0	50.0	94	70-135	
Lab Batch	#: 3045673	Sample: 581006-001 / SMP	Batcl	h: 1 Matrix:	Soil		1
Units:	mg/kg	Date Analyzed: 04/03/18 22:33	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0272	0.0300	91	70-130	
4-Bromoflu	orobenzene		0.0288	0.0300	96	70-130	

* 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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	r ders : 58100 #: 3045540	6, Sample: 581006-009 / SMP	Batch	Project ID : 1 Matrix	: 212C-MD-0 : Soil)1166	
Units:	mg/kg	Date Analyzed: 04/04/18 08:35	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		91.8	99.6	92	70-135	
o-Terpheny	1		50.4	49.8	101	70-135	
Lab Batch	#: 3045718	Sample: 581006-002 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 20:38	SUI	RROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0266	0.0300	89	70-130	
4-Bromoflu	orobenzene		0.0278	0.0300	93	70-130	
Lab Batch	#: 3045718	Sample: 581006-003 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 20:57	SUI	RROGATE R	ECOVERYS	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[U]		
1,4-Difluor	obenzene		0.0282	0.0300	94	70-130	
4-Bromoflu	lorobenzene	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.0253	0.0300	84	70-130	
Lab Batch	#: 3045718	Sample: 581006-004 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 21:16	SUI	RROGATE R	ECOVERY S	STUDY	
	ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0290	0.0300	97	70-130	
4-Bromoflu	orobenzene		0.0310	0.0300	103	70-130	
Lab Batch	#: 3045718	Sample: 581006-009 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 21:36	SUI	RROGATE R	ECOVERY S	STUDY	
	ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0266	0.0300	89	70-130	
4 D			0.0225	0.0200	70	50.400	

* 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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or	rders: 58100	6, Sampler 581006 010 / SMP	Potob	Project ID	212C-MD-0	1166	
Lab Datch	ma/ka	Date Analyzed: 04/04/18 21:55					
Units.	iiig/kg	Date Analyzeu: 04/04/18 21.35	SUR	ROGATE R	ECOVERYS	STUDY	
	brk Orders : 581006, b Batch #: 3045718 Sample: 581006-010 / its: mg/kg Date Analyzed: 04/04/18 21:5 BTEX by EPA 8021B Analytes -Difluorobenzene Batch #: 3045718 Sample: 581006-014 / its: mg/kg Date Analyzed: 04/04/18 22:1 BTEX by EPA 8021B Analytes -Difluorobenzene Batch #: 3045718 Sample: 581006-015 / its: mg/kg Date Analyzed: 04/04/18 22:3 BTEX by EPA 8021B BTEX by EPA 8021B CAnalytes -Difluorobenzene Date Analyzed: 04/04/18 22:3 BTEX by EPA 8021B CAnalytes -Difluorobenzene Batch #: 3045718 Sample: 581006-015 / its: mg/kg Date Analyzed: 04/04/18 22:3 BTEX by EPA 8021B CAnalytes -Difluorobenzene Batch #: 3045718 Sample: 581006-020 / its: mg/kg Date Analyzed: 04/04/18 22:5 BTEX by EPA 8021B CAnalytes -Difluorobenzene Batch #: 3045718 Sample: 581006-020 / its: mg/kg Date Analyzed: 04/04/18 22:5 BTEX by EPA 8021B CAnalytes -Difluorobenzene BTEX by EPA 8021B CAnalytes -Difluorobenzene -Difluo	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0277	0.0300	92	70-130	
4-Bromoflu	orobenzene		0.0279	0.0300	93	70-130	
Lab Batch	#: 3045718	Sample: 581006-014 / SMP	Batch:	1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 22:14	SUR	ROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0257	0.0300	86	70-130	
4-Bromoflu	orobenzene		0.0325	0.0300	108	70-130	
Lab Batch	#: 3045718	Sample: 581006-015 / SMP	Batch:	1 Matrix	: Soil	/0100	
Units:	mg/kg	Date Analyzed: 04/04/18 22:33	SUR	ROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	obenzene		0.0286	0.0300	95	70-130	
4-Bromoflu	orobenzene		0.0288	0.0300	96	70-130	
Lab Batch	#: 3045718	Sample: 581006-020 / SMP	Batch:	1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 22:53	SUR	ROGATE R	ECOVERY S	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0250	0.0300	83	70-130	
4-Bromoflu	orobenzene		0.0386	0.0300	129	70-130	
Lab Batch	#: 3045718	Sample: 581006-021 / SMP	Batch:	1 Matrix	: Soil	·	
Units:	mg/kg	Date Analyzed: 04/04/18 23:12	SUR	ROGATE R	ECOVERY S	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0279	0.0300	93	70-130	
4 Decemently	1		0.0055	0.0000			

* 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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	rders : 58100 #: 3046091	6, Sample: 581006-018 / SMP	Batch	Project ID: n: 1 Matrix:	212C-MD-0 soil)1166	
Units:	mg/kg	Date Analyzed: 04/09/18 18:20	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes					
1-Chlorooc	tane		100	99.9	100	70-135	
o-Terpheny	/1		52.0	50.0	104	70-135	
Lab Batch	#: 3046091	Sample: 581006-017 / SMP	Batch	n: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 04/09/18 18:41	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		122	99.7	122	70-135	
o-Terpheny	7l		49.4	49.9	99	70-135	
Lab Batch	#: 3046232	Sample: 581006-018 / SMP	Batch	n: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 04/10/18 15:50	SU	RROGATE R	ECOVERY S	STUDY	
	втех	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4 Diffuor	abanzana	Anarytes	0.0225	0.0200	70	70.120	
1,4-Dilluon	openzene		0.0235	0.0300	/8	70-130	
4-Biolioliu	#• 2046412	Sample: 581006.017 / SMD	0.0256	0.0300	85 Soil	/0-130	
	1#: 5046412	Sample: 381000-017/ SMP	Datci	I: I Matrix:	5011		
Units:	mg/kg	Date Analyzed: 04/11/18 12:55	SU	RROGATE R	ECOVERYS	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0232	0.0300	77	70-130	
4-Bromoflu	iorobenzene		0.0219	0.0300	73	70-130	
Lab Batch	#: 3045540	Sample: 7641929-1-BLK / H	BLK Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 04/03/18 09:35	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		88.3	100	88	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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	r ders : 58100 #: 3045673	6, Sample: 7642030-1-BLK /	Project ID: 212C-MD-01166 K / BLK Batch: 1 Matrix: Solid						
Units:	mg/kg	Date Analyzed: 04/03/18 22:13	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0288	0.0300	96	70-130			
4-Bromoflu	lorobenzene		0.0266	0.0300	89	70-130			
Lab Batch	#: 3045718	Sample: 7642055-1-BLK /	BLK Batch	h: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/03/18 22:13	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1.4-Difluor	obenzene		0.0288	0.0300	96	70-130			
4-Bromoflu	orobenzene		0.0266	0.0300	89	70-130			
Lab Batch	#: 3046091	Sample: 7642268-1-BLK /	BLK Batch	h: 1 Matrix	: Solid	70 150			
Units:	mg/kg	Date Analyzed: 04/09/18 09:14	SU	RROGATE R	ECOVERY S	STUDY			
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[IJ]				
1-Chlorooc	tane		96.0	100	96	70-135			
o-Terpheny	1		49.8	50.0	100	70-135			
Lab Batch	#: 3046232	Sample: 7642361-1-BLK /	BLK Batch	h: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/10/18 10:06	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0252	0.0300	84	70-130			
4-Bromoflu	orobenzene		0.0243	0.0300	81	70-130			
Lab Batch	#: 3046412	Sample: 7642454-1-BLK /	BLK Batcl	h: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/11/18 10:25	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0297	0.0300	99	70-130			
4 Promofly	orobenzene		0.0224	0.0200	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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	rders : 58100 #: 3045540	06, Sample: 7641929-1-BKS /	Project ID: 212C-MD-01166 S/BKS Batch: 1 Matrix: Solid							
Units:	mg/kg	Date Analyzed: 04/03/18 09:58	SU	RROGATE R	ECOVERY S	STUDY				
	TPH]	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			נען					
1-Chlorooc	tane		109	100	109	70-135				
o-Terpheny	/1		47.3	50.0	95	70-135				
Lab Batch	#: 3045673	Sample: 7642030-1-BKS /	BKS Batch	n: 1 Matrix	: Solid					
Units:	mg/kg	Date Analyzed: 04/03/18 20:17	SU.	RROGATE R	ECOVERY S	STUDY				
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluor	obenzene	<i>v</i>	0.0305	0.0300	102	70-130				
4-Bromoflu	orobenzene		0.0283	0.0300	94	70-130				
Lab Batch	#: 3045718	Sample: 7642055-1-BKS /	BKS Batch	n: 1 Matrix	: Solid					
Units:	mg/kg	Date Analyzed: 04/03/18 20:17	SU	RROGATE R	ECOVERY	STUDY				
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1.4.5:0		Analytes								
1,4-Difluor	obenzene		0.0305	0.0300	102	70-130				
4-Bromofiu	iorobenzene	Somela, 7(422(9,1,DKS/	0.0283	0.0300	94	70-130				
Lab Batch	a	Sample: 7642268-1-BKS7	BKS Batch		: Solid					
Units:	mg/kg	Date Analyzed: 04/09/18 09:35	SU	RROGATE R	ECOVERY S	STUDY				
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooc	tane		129	100	129	70-135				
o-Terpheny	l		60.9	50.0	122	70-135				
Lab Batch	#: 3046232	Sample: 7642361-1-BKS /	BKS Batch	n: 1 Matrix	: Solid	-				
Units:	mg/kg	Date Analyzed: 04/10/18 08:10	SU.	RROGATE R	ECOVERY S	STUDY				
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluor	obenzene		0.0305	0.0300	102	70-130				
4-Bromoflu	orobenzene		0.0317	0.0300	106	70-130				

* 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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	r ders : 58100 #: 3046412	6, Sample: 7642454-1-BKS /]	BKS Batch	Project ID:	212C-MD-0)1166	
Units:	mg/kg	Date Analyzed: 04/11/18 08:17	SU:	RROGATE R	ECOVERY S	STUDY	
	BTEX	A polytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4 Diffuor	ahanzana	Analytes	0.0224	0.0200	100	70.120	
1,4-Dilluor	obenzene		0.0324	0.0300	108	70-130	
4-Bromoliu	# 2045540	Samelar 7641020 1 DSD / 7	0.0289	0.0300	96 Solid	70-130	
Lab Batch	#: 3043340	Sample: 7041929-1-BSD7	BSD Balch		Solid		
Units:	mg/kg	Date Analyzed: 04/03/18 10:21	SU.	RROGATE R	ECOVERYS	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	•	129	100	129	70-135	
o-Terpheny	1		62.1	50.0	124	70-135	
Lab Batch	#: 3045673	Sample: 7642030-1-BSD / 1	BSD Batch	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 04/03/18 20:37	SU	RROGATE R	ECOVERY	STUDY	
	втех	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4 Difluor	abanzana	Anarytes	0.0200	0.0200	100	70.120	
4 Bromoflu	orobenzene		0.0300	0.0300	100	70-130	
I ab Batch	#• 3045718	Sample: 7642055-1-BSD / 1	0.0282 RSD Ratch	0.0300	• Solid	/0-130	
Lab Datch	ma/ka	Deta Applyzed: 04/03/18 20:37]
	mg/kg	Date Analyzeu: 04/03/18 20.37	SU.	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0300	0.0300	100	70-130	
4-Bromoflu	orobenzene		0.0282	0.0300	94	70-130	
Lab Batch	#: 3046091	Sample: 7642268-1-BSD / 1	BSD Batch	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 04/09/18 09:57	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		97.3	100	97	70-135	

* 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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Oi Lab Batch	r ders : 58100 #: 3046232	6, Sample: 7642361-1-BSD / I	Project ID: 212C-MD-01166 D/BSD Batch: 1 Matrix: Solid						
Units:	mg/kg	Date Analyzed: 04/10/18 08:30	SU	RROGATE R	ECOVERY S	STUDY			
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[U]				
1,4-Difluor	obenzene		0.0281	0.0300	94	70-130			
4-Bromoflu	orobenzene		0.0307	0.0300	102	70-130			
Lab Batch	#: 3046412	Sample: 7642454-1-BSD / 1	BSD Batcl	h: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/11/18 08:37	SU	RROGATE R	ECOVERY	STUDY			
	втех	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0320	0.0300	107	70-130			
4-Bromoflu	orobenzene		0.0299	0.0300	100	70-130			
Lab Batch	#: 3045540	Sample: 580999-001 S / MS	Batc	h: 1 Matrix	: Soil	10 100			
Units:	mg/kg	Date Analyzed: 04/03/18 11:42	SU	RROGATE R	ECOVERY	STUDY			
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[2]				
1-Chlorooc	tane		104	99.9	104	70-135			
o-Terpheny	1		46.0	50.0	92	70-135			
Lab Batch	#: 3045673	Sample: 581006-001 S / MS	S Batcl	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 04/03/18 20:56	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		0.0317	0.0300	106	70-130			
4-Bromoflu	orobenzene		0.0288	0.0300	96	70-130			
Lab Batch	#: 3045718	Sample: 581267-002 S / MS	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 04/04/18 14:43	SU	RROGATE R	ECOVERYS	STUDY			
	втех	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0295	0.0300	98	70-130			
4-Bromoflu	orobenzene		0.0291	0.0300	97	70-130			

* 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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Or Lab Batch	ders : 58100	6, Sample: 581762-001 S / M	S Batch	Project ID:	212C-MD-0	1166	
Units:	mg/kg	Date Analyzed: 04/09/18 10:40	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes					
T-Chlorooct	tane		94.5	99.7	95	70-135	
o-Terpheny	1		42.8	49.9	86	70-135	
Lab Batch	#: 3046232	Sample: 581/63-004 S / MS	S Batch	n: 1 Matrix	: Soll		
Units:	mg/kg	Date Analyzed: 04/10/18 08:49	SU	RROGATE R	ECOVERY S	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0305	0.0300	102	70-130	
4-Bromoflu	orobenzene		0.0333	0.0300	111	70-130	
Lah Batch	#• 3046412	Sample: 581765-012 S / M	S Batch	0.0500 n. 1 Matrix	· Soil	70 150	
Lab Daten	mg/kg	Date Analyzed: $04/11/18$ 00:07					
Units:	iiig/kg	Date Analyzeu: 04/11/18 09.07	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	abanzana	1 mary ces	0.0214	0.0200	105	70.120	
1,4-Dilluon	orohonzono		0.0314	0.0300	105	70-130	
4-Bromonu	#• 2045540	Sample: 580000 001 SD /)	0.0293	0.0300	98	/0-130	
	#: 3045540		MSD Batch		: 5011		
Units:	mg/kg	Date Analyzed: 04/03/18 12:05	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		93.3	99.9	93	70-135	
o-Terpheny	1		42.6	50.0	85	70-135	
Lab Batch	#: 3045673	Sample: 581006-001 SD / N	MSD Batch	n: 1 Matrix	: Soil	11	
Units:	mg/kg	Date Analyzed: 04/03/18 21:15	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0293	0.0300	98	70-130	
A.D. C			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



Project Name: El Jefe BSJ Fed. Comm 1H

Work Ord Lab Batch #	l ers : 58100	6, Sample: 581267-002 SD / N	/ISD Batch	Project ID:	212C-MD-0 Soil)1166	
Units:	mg/kg	Date Analyzed: 04/04/18 15:09	SU	RROGATE RI	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorob	enzene	11111191003	0.0311	0.0300	104	70-130	
4-Bromofluor	obenzene		0.0310	0.0300	103	70-130	
Lab Batch #	: 3046091	Sample: 581762-001 SD / M	ASD Batch	n: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 04/09/18 11:01	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-Chlorooctar	ne		102	99.8	102	70-135	
o-Terphenyl			47.1	49.9	94	70-135	
Lab Batch #	: 3046232	Sample: 581763-004 SD / M	ASD Batch	n: 1 Matrix:	Soil	11	
Units:	mg/kg	Date Analyzed: 04/10/18 09:08	SU	RROGATE RI	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorob	enzene	1111119 103	0.0323	0.0300	108	70-130	
4-Bromofluor	obenzene		0.0334	0.0300	111	70-130	
Lab Batch #	: 3046412	Sample: 581765-012 SD / N	ASD Batch	n: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 04/11/18 09:27	SU	RROGATE RI	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorob	enzene		0.0325	0.0300	108	70-130	
4-Bromofluor	obenzene		0.0293	0.0300	98	70-130	

* 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





Project Name: El Jefe BSJ Fed. Comm 1H

Work Order	·#: 581006							Proj	ect ID:	212C-MD-()1166	
Analyst:	ALJ	D	ate Prepar	red: 04/03/201	8			Date A	nalyzed: (04/03/2018		
Lab Batch ID	: 3045673 Sample: 7642030-1	-BKS	Batcl	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K/BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Analy	BTEX by EPA 8021B	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
Benzene		< 0.00202	0.101	0.116	115	0.101	0.121	120	4	70-130	35	
Toluene		< 0.00202	0.101	0.108	107	0.101	0.114	113	5	70-130	35	
Ethylbenz	ene	< 0.00202	0.101	0.102	101	0.101	0.109	108	7	70-130	35	
m,p-Xyler	nes	< 0.00403	0.202	0.212	105	0.202	0.224	111	6	70-130	35	
o-Xylene		< 0.00202	0.101	0.107	106	0.101	0.113	112	5	70-130	35	
Analyst:	ALJ	D	ate Prepar	ed: 04/04/201	8			Date A	nalyzed: ()4/03/2018	•	
Lab Batch ID	: 3045718 Sample: 7642055-1	-BKS	Batcl	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K/BLANK	SPIKE / 1	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Anak	BTEX by EPA 8021B	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
Banzana	les	<0.00200	0.0008	0.115	115	0.100	0.120	120	4	70.120	25	
Toluene		<0.00200	0.0998	0.115	115	0.100	0.120	120	4	70-130	35	
Ethylbenz	ene	<0.00200	0.0998	0.107	107	0.100	0.113	109	8	70-130	35	
m,p-Xvler	nes	<0.00200	0.200	0.210	101	0.201	0.223	111	6	70-130	35	
o-Xylene		<0.00200	0.0998	0.106	100	0.100	0.113	113	6	70-130	35	
·					L	I					l	





Project Name: El Jefe BSJ Fed. Comm 1H

Work Order	:#: 581006							Proj	ect ID:	212C-MD-()1166	
Analyst:	ALJ	D	ate Prepar	ed: 04/10/201	18			Date A	nalyzed: (04/10/2018		
Lab Batch ID	: 3046232 Sample: 7642361-1-	BKS	Batcl	n#: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ЭY	
Analy	BTEX by EPA 8021B	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
Benzene		<0.00198	0.0990	0.118	119	0.0994	0.116	117	2	70-130	35	
Toluene		<0.00198	0.0990	0.115	116	0.0994	0.111	112	4	70-130	35	
Ethylbenz	ene	<0.00198	0.0990	0.115	116	0.0994	0.112	113	3	70-130	35	
m,p-Xyler	nes	< 0.00396	0.198	0.240	121	0.199	0.230	116	4	70-130	35	
o-Xylene		<0.00198	0.0990	0.119	120	0.0994	0.115	116	3	70-130	35	
Analyst:	ALJ	D	ate Prepar	ed: 04/11/201	18			Date A	nalyzed: (04/11/2018		
Lab Batch ID	: 3046412 Sample: 7642454-1-	BKS	Batcl	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K/BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	DY	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	vtes		[0]	[C]		[E]	Kesutt [F]	[0]				
Benzene		<0.00201	0.101	0.118	117	0.101	0.118	117	0	70-130	35	
Toluene		<0.00201	0.101	0.115	114	0.101	0.114	113	1	70-130	35	
Ethylbenz	ene	<0.00201	0.101	0.116	115	0.101	0.114	113	2	70-130	35	
m,p-Xyler	nes	<0.00402	0.201	0.237	118	0.202	0.232	115	2	70-130	35	
o-Xylene		< 0.00201	0.101	0.118	117	0.101	0.116	115	2	70-130	35	





Project Name: El Jefe BSJ Fed. Comm 1H

Work Order #: 581006							Pro	ject ID: 2	212C-MD-0)1166	
Analyst: OJS	D	ate Prepar	red: 04/02/201	18			Date A	nalyzed: (04/03/2018		
Lab Batch ID: 3045521 Sample: 7641896-1	BKS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	DY	
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	273	109	250	267	107	2	90-110	20	
Analyst: OJS	D	ate Prepar	red: 04/03/201	18	•		Date A	nalyzed: (04/03/2018	1	·'
Lab Batch ID: 3045644 Sample: 7641963-1	BKS	Bate	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / 2	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	DY	
Inorganic Anions 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	256	102	250	246	98	4	90-110	20	
Analyst: ARM	D	ate Prenar	red: 04/03/201	102	200		Date A	nalvzed: ()4/03/2018		
Lab Batch ID: 3045540 Sample: 7641929-1	-BKS	Batc	h #: 1				Dutt	Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	DY	
TPH By SW8015 Mod 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
	1	1	1	1		1	1	1	1	1	1
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	901	90	1000	1150	115	24	70-135	20	F





Project Name: El Jefe BSJ Fed. Comm 1H

Work Order	#: 581006							Proj	ject ID:	212C-MD-()1166	
Analyst:	ARM	D	ate Prepar	red: 04/09/201	8			Date A	nalyzed: (04/09/2018		
Lab Batch ID:	Sample: 7642268-1-	BKS	Bate	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOV	ERY STUE	PΥ	
	TPH By SW8015 Mod	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
Analy	tes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Gasoline R	Range Hydrocarbons (GRO)	<15.0	1000	1060	106	1000	995	100	6	70-135	20	
Diesel Ran	nge Organics (DRO)	<15.0	1000	1160	116	1000	1130	113	3	70-135	20	



Project Name: El Jefe BSJ Fed. Comm 1H



Work Order # : 581006						Project II): 212C-1	MD-0116	5		
Lab Batch ID: 3045673	QC- Sample ID:	581006	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 04/03/2018	Date Prepared:	04/03/2	018	Ar	nalyst: 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	Spike	Duplicate Spiked Sample Bosult [F]	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]		[D]	[E]	Kesun [F]	[G]	/0	70K	70KI D	
Benzene	<0.00199	0.0994	0.109	110	0.0998	0.0915	92	17	70-130	35	
Toluene	<0.00199	0.0994	0.101	102	0.0998	0.0887	89	13	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.0917	92	0.0998	0.0813	81	12	70-130	35	
m,p-Xylenes	<0.00398	0.199	0.188	94	0.200	0.162	81	15	70-130	35	
o-Xylene	<0.00199	0.0994	0.0993	100	0.0998	0.0875	88	13	70-130	35	
Lab Batch ID: 3045718	QC- Sample ID:	581267	-002 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 04/04/2018	Date Prepared:	04/04/2	018	Ar	nalyst: A	ALJ					
Reporting Units: mg/kg		Ν	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	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]		/0K [D]	[E]	Kesutt [F]	[G]	/0	70K	70KI D	
Benzene	<0.00201	0.100	0.0839	84	0.0998	0.0996	100	17	70-130	35	
Toluene	<0.00201	0.100	0.0779	78	0.0998	0.0943	94	19	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0720	72	0.0998	0.0882	88	20	70-130	35	
m,p-Xylenes	<0.00402	0.201	0.151	75	0.200	0.181	91	18	70-130	35	
o-Xylene	< 0.00201	0.100	0.0755	76	0.0998	0.0920	92	20	70-130	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



Project Name: El Jefe BSJ Fed. Comm 1H



Work Order # : 581006						Project II): 212C-l	MD-01166	5		
Lab Batch ID: 3046232	QC- Sample ID:	581763	-004 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed: 04/10/2018	Date Prepared:	04/10/2	018	An	alyst: A	ALJ					
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
BTEX by EPA 8021B	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]				
Benzene	< 0.00200	0.100	0.0887	89	0.101	0.107	106	19	70-130	35	
Toluene	< 0.00200	0.100	0.0819	82	0.101	0.101	100	21	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0764	76	0.101	0.100	99	27	70-130	35	
m,p-Xylenes	< 0.00401	0.200	0.157	79	0.202	0.205	101	27	70-130	35	
o-Xylene	< 0.00200	0.100	0.0787	79	0.101	0.103	102	27	70-130	35	
Lab Batch ID: 3046412	QC- Sample ID:	581765	-012 S	Ba	tch #:	1 Matrix	: Soil				
Lab Batch ID: 3046412 Date Analyzed: 04/11/2018	QC- Sample ID: Date Prepared:	581765 04/11/2	-012 S 018	Ba An	tch #: alyst: /	1 Matrix ALJ	c: Soil				
Lab Batch ID:3046412Date Analyzed:04/11/2018Reporting Units:mg/kg	QC- Sample ID: Date Prepared:	581765 04/11/2 M	-012 S 018 IATRIX SPIKI	Ba An E / MAT	tch #: alyst: / RIX SPI	1 Matrix ALJ KE DUPLICA	x: Soil TE REC	OVERY S	STUDY		
Lab Batch ID:3046412Date Analyzed:04/11/2018Reporting Units:mg/kgBTEX by EPA 8021B	QC- Sample ID: Date Prepared: Parent Sample Result	581765 04/11/2 M Spike Added	-012 S 018 IATRIX SPIKJ Spiked Sample Result [C]	Ba An E / MAT Spiked Sample %R	tch #: alyst: A RIX SPI Spike Added	1 Matrix ALJ KE DUPLICA Duplicate Spiked Sample Result [F]	x: Soil TE REC Spiked Dup. %R	OVERY S	STUDY Control Limits %R	Control Limits %RPD	Flag
Lab Batch ID: 3046412 Date Analyzed: 04/11/2018 Reporting Units: mg/kg BTEX by EPA 8021B Analytes	QC- Sample ID: Date Prepared: Parent Sample Result [A]	581765 04/11/2 M Spike Added [B]	-012 S 018 IATRIX SPIKJ Spiked Sample Result [C]	Ba An E / MAT Spiked Sample %R [D]	tch #: alyst: A RIX SPI Spike Added [E]	1 Matrix ALJ KE DUPLICA Duplicate Spiked Sample Result [F]	r: Soil TE REC Spiked Dup. %R [G]	OVERY S	STUDY Control Limits %R	Control Limits %RPD	Flag
Lab Batch ID: 3046412 Date Analyzed: 04/11/2018 Reporting Units: mg/kg BTEX by EPA 8021B Analytes Benzene	QC- Sample ID: Date Prepared: Parent Sample Result [A] <0.00200	581765 04/11/2 M Spike Added [B] 0.100	-012 S 018 IATRIX SPIKI Spiked Sample Result [C] 0.0867	Ba An E / MAT Spiked Sample %R [D] 87	tch #: alyst: A RIX SPI Spike Added [E] 0.0998	1 Matrix ALJ KE DUPLICA Duplicate Spiked Sample Result [F] 0.0956	c: Soil TE REC Spiked Dup. %R [G] 96	OVERY S RPD %	STUDY Control Limits %R 70-130	Control Limits %RPD 35	Flag
Lab Batch ID: 3046412 Date Analyzed: 04/11/2018 Reporting Units: mg/kg BTEX by EPA 8021B Analytes Benzene Toluene	QC- Sample ID: Date Prepared: Parent Sample Result [A] <0.00200 <0.00200	581765 04/11/2 M Spike Added [B] 0.100 0.100	-012 S 018 IATRIX SPIKI Spiked Sample Result [C] 0.0867 0.0809	Ba An E / MAT Spiked Sample %R [D] 87 81	tch #: alyst: A RIX SPI Spike Added [E] 0.0998 0.0998	1 Matrix ALJ KE DUPLICA Duplicate Spiked Sample Result [F] 0.0956 0.0896	c: Soil TE REC Spiked Dup. %R [G] 96 90	OVERY 5 RPD % 10 10	STUDY Control Limits %R 70-130 70-130	Control Limits %RPD 35 35	Flag
Lab Batch ID: 3046412 Date Analyzed: 04/11/2018 Reporting Units: mg/kg BTEX by EPA 8021B Analytes Benzene Toluene Ethylbenzene	QC- Sample ID: Date Prepared: Parent Sample Result [A] <0.00200 <0.00200 <0.00200	581765 04/11/2 M Spike Added [B] 0.100 0.100 0.100	-012 S 018 IATRIX SPIKI Spiked Sample Result [C] 0.0867 0.0809 0.0805	Ba An E / MAT Spiked Sample %R [D] 87 81 81	tch #: halyst: A RIX SPI Spike Added [E] 0.0998 0.0998 0.0998	1 Matrix ALJ KE DUPLICA Duplicate Spiked Sample Result [F] 0.0956 0.0896 0.0868	c: Soil TE REC Spiked Dup. %R [G] 96 90 87	OVERY 5 RPD % 10 10 8	STUDY Control Limits %R 70-130 70-130 70-130	Control Limits %RPD 35 35 35	Flag
Lab Batch ID: 3046412 Date Analyzed: 04/11/2018 Reporting Units: mg/kg BTEX by EPA 8021B Analytes Benzene Toluene Ethylbenzene m,p-Xylenes	QC- Sample ID: Date Prepared: Parent Sample Result [A] <0.00200 <0.00200 <0.00200 <0.00200	581765 04/11/2 M Spike Added [B] 0.100 0.100 0.100 0.200	-012 S 018 [ATRIX SPIK] Spiked Sample Result [C] 0.0867 0.0809 0.0805 0.165	Ba An E / MAT Spiked Sample %R [D] 87 81 81 81 83	tch #: alyst: A RIX SPI Spike Added [E] 0.0998 0.0998 0.0998 0.0998	1MatrixALJKE DUPLICADuplicate Spiked Sample Result [F]0.09560.09560.08960.08680.177	c: Soil TE REC Spiked Dup. %R [G] 96 90 87 89	OVERY 5 RPD % 10 10 8 7	STUDY Control Limits %R 70-130 70-130 70-130 70-130	Control Limits %RPD 35 35 35 35 35	Flag

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: El Jefe BSJ Fed. Comm 1H



Work Order # :	581006						Project II	D: 212C-1	MD-0116	б		
Lab Batch ID:	3045521	QC- Sample ID:	581006	-002 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared:	04/02/2	018	Ar	alyst: (SIC					
Reporting Units:	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorgan	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		454	249	715	105	249	722	108	1	90-110	20	
Lab Batch ID:	3045521	QC- Sample ID:	581006	-011 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared:	04/02/2	018	Ar	alyst: (OJS					
Reporting Units:	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorgar	nic Anions by EPA 300/300.1	Parent Sample Besult	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]	[C]	5%K [D]	[E]	Kesuit [F]	76K [G]	70	70K	70KPD	
Chloride		289	248	553	106	248	571	114	3	90-110	20	X
Lab Batch ID:	3045644	QC- Sample ID:	581006	-023 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared:	04/03/2	018	Ar	alyst: (SIC					
Reporting Units:	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorgar	nic Anions by EPA 300/300.1	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]	[U]	-70K [D]	E]	Kesuit [F]	-70K [G]	70	70K	70KFD	
Chloride		26.7	248	272	99	248	270	98	1	90-110	20	

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



Project Name: El Jefe BSJ Fed. Comm 1H



Work Order # :	581006						Project II	D: 212C-N	MD-0116	6		
Lab Batch ID:	3045644	QC- Sample ID:	581057	-003 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared:	04/03/2	018	An	alyst: (OJS					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	anic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[0]	[D]	[E]	Kesutt [1]	[G]	/0			
Chloride		370	248	603	94	248	607	96	1	90-110	20	
Lab Batch ID:	3045540	QC- Sample ID:	580999	-001 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared:	04/03/2	018	An	alyst: A	ARM					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	TPH By SW8015 Mod	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]				
Gasoline Rang	e Hydrocarbons (GRO)	<15.0	999	1020	102	999	926	93	10	70-135	20	
Diesel Range	Organics (DRO)	<15.0	999	1100	110	999	1040	104	6	70-135	20	
Lab Batch ID:	3046091	QC- Sample ID:	581762	-001 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	04/09/2018	Date Prepared:	04/09/2	018	An	alyst: A	ARM					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Besult [F]	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]	[U]	-70K [D]	E]	Kesun [r]	-70K [G]	70	70K	70KrD	
Gasoline Rang	e Hydrocarbons (GRO)	<15.0	997	810	81	998	831	83	3	70-135	20	
Diesel Range	Organics (DRO)	30.4	997	848	82	998	922	89	8	70-135	20	

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

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and NL Big Spring Stread. Sprin	Sile Manager: Ise Manager: Sampler Signature: Sampler Signature: Sampler Signature: Sampler Signature: Sampler Signature: Mile Carmona CIC-MD-01166 Froilert F: Sampler Signature: None CIC-MD-01166 Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: Nile Carmona Circ Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: Nile Carmona Circ Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: No Mile Carmona Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: Mile Carmona Circ Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: Mile Carmona Mile Carmona Sampler Signature: Mile Carmona Circ Mile Carmona Circ Mile Carmona Circ Mile Carmona Circ Mile Ca	Simpler Signause: IKe Tavarez Mike Carmona Criccle or Specify Me Simpler Signause: Nike Carmona 212C-MD-01166 Criccle or Specify Me Simpler Signause: Nike Carmona Mike Carmona Criccle or Specify Me Simpler Signause: Nike Carmona Mike Carmona Criccle or Specify Me Simpler Signause: Nike Carmona Mike Carmona Criccle or Specify Me Simpler Signause: Nike Carmona Mike Carmona Criccle or Specify Me Signause: Signause: Nike Carmona Criccle or Specify Me Signause: Signause: None Criccle or Specify Me Signause: None Signause: Criccle or Specify Me Signause: None Signause: Signause: Criccle or Specify Me Signause: None Signause: Signause: Signause: Signause: Signause: None Signause: Signause: Signause: Signause: Signause: Signause: Signause: Signause: Signause: Signause: S	uate: time:	Dete: H	Date: Time:	- Camera 4-2-18 1130	Date: Time:	2 (2)	-2 (10)	-2 (8')	-2 (6')	-2 (4')	·-2 (2')	-2 (0-1)	-1 (2)	-1 (0-1')		SAMPLE IDENTIFICATION		Run deeper samples if TPH exceeds 5,000 mg/kg. Run de 30 mg/kg	Xenco Midland Tx	Tetra Tech, Inc.	(county, Lea County, New Mexico	El Jefe BSJ Fed. Comm 1H	EOG	Tetra Tech, Inc.
400 NL Big Spring Streed, Sie Tel (data) B82-5936 Ike Tavarez Ike Tavarez Mike Carmona Mike Carmona Mike Carmona Mike Carmona Mike Carmona Martex Preservortree Martex MATRIX Preservortree Martex Preservortree Methodo Martex Preservortree Methodo Martex H ICL NO No Value X 1 Date: Time: Date: Time:	Mike Carmona Percends 10 mg/kg or Total BTEX exceeds Mike Carmona Mita Carbona	A Date: Time:	Received by:	7	Received by:	hiller	3/29/2018 Received by:	3/29/2018	3/29/2018	3/29/2018	3/29/2018	3/29/2018	3/29/2018	3/29/2018	3/29/2018	3/29/2018	DATE	YEAR: 2017	SAMPLING	eper samples if benzene	Sampler Signature:		Project #:		one manager:	
Street. Sie Street. Sie 438 79706 3946 97 Total BTEX excee 986 996 996 997 Total BTEX excee 100 110	Time:	Time: 1 <td>Date:</td> <td></td> <td>Date:</td> <td>10 4/21</td> <td>X Date:</td> <td>× ×</td> <td>< ×</td> <td>×</td> <td>×</td> <td>×</td> <td>×</td> <td>×</td> <td>×</td> <td>×</td> <td>WATER SOIL HCL HNO₃</td> <td></td> <td>MATRIX PRE</td> <td>exceeds 10 mg/kg o</td> <td>Mike Carmo</td> <td></td> <td>212C-MD-0-</td> <td></td> <td>Ike Tavarez</td> <td>4000 N. Big Spring 401 Midland,Tex Tel (432) 682- Fax (432) 682-</td>	Date:		Date:	10 4/21	X Date:	× ×	< ×	×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃		MATRIX PRE	exceeds 10 mg/kg o	Mike Carmo		212C-MD-0-		Ike Tavarez	4000 N. Big Spring 401 Midland,Tex Tel (432) 682- Fax (432) 682-
	Sample Temperature FILTERED (Y/N) P FILTERED (Y/N) P BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCI P Metals Ag As Ba Cd Cr Pb Se Hg	Image: Sample Temperature Image:	Time:	1	Time:	18 11:31	Time: 1 N			× 1 1	X 1 N	X 1 N	X 1 N	X 1 N	X 1 N	X 1 N	ICE None # CONTA	INE	METHOD RS	or Total BTEX exceed	na		1166			Street, Ste as 79705 4559 3946

(6-23: +0.2°C) Corrected Temp: 4-

Tetra Tech, Inc. Not instruments Eloide BSJ Fed. Comm 1H Immunit <
Inc. Management Tel sping sum of the sping sum o
Any Hig Series Series INC Taylors Series Mike Carmona Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Mike Carmona Mike Carmona
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Corrected Temp: U. I

	Relinquished by	Relinquished by	mike	Relinnuished by					(LAB USE)	LAB #			Comments:	Docision Labor	Project Location: state)	Project Name:							
	: Date: Time:	: Date: Time:	Corner 4-2-18 /130	Date: Time:		1-6 (6)	T-6 (4')	T-6 (2')		SAMPLE IDENTIFICATION		Run deeper samples if TPH exceeds 5,000 mg/kg. Run de 50 mg/kg	Xenco Midland Tx	Tetra Tech, Inc.	(county, Lea County, New Mexico	El Jefe BSJ Fed. Comm 1H	EOG	Tetra Tech, Inc.					
ORIGINAL COPY	Received by: Date: Time:	Received by: Date: Time: Sa	Becaused by: Date: Time:			3/29/2018	3/29/2018	3/29/2018	DATE	YEAR: 2017	SAMPLING	eper samples if benze	Sampler Signature:		Project #:		Site Manager:						
				Wet SUP 1/2 1	Wet WALLE I	US SUP IN TIME:	NA SUP 18 1 Date: Time:	US SUP 1/8 1 Date: Time:	US SUP 1/2 1 Date: Time:	US SUP 1/2 L Date: Time:			×	×	×	WATER SOIL HCL HNO ₃ ICE None	2	MATRIX PRESERVATIVE	one exceeds 10 mg/kg or Total t	Mike Carmona		212C-MD-01166	
			1:31			1 Z	1 N	1 N	# CONTA	AINER	RS /N)	BTEX exceeds	в										
Circle) HAMETELIVENER FERREX LIPS Tranking #: Temp: 4. 3 IR ID:R-8 CF:(0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp: // 1	Special Report Limits or TRRP Report	Sample Temperature Rush Charnes Authorized	LAB USE ONLY STANDARD			×			BTEX 80; TPH TX1 TPH 8019 PAH 8270 Total Meta TCLP Vola TCLP Vola TCLP Vola TCLP Sen RCI GC/MS Vc GC/MS Vc GC/MS Se PCB's 800 NORM PLM (Asbit Chloride Chloride General V Anion/Cat	21B 005 (5M (0C als Ag tals A atiles ni Vol bl. 82 / 6 estos Sul Water tion E	BTE Ext to GRO - g As B g As B g As B latiles 2608 / //ol. 82 608))	X 8260 C35) DRO - a Cd Cr Ba Cd Cd Cd Cd Cr Ba Cd	8260B IS) RO - ORO - MRO) Cd Cr Pb Se Hg Cd Cr Pb Se Hg 4 10C/625 TDS Stry (see attached list)			(Circle or Specify Method No.)	ANALYSIS REQUEST	281006					
1	1	hr							Hold					Final	1 000	_							



XENCO Laboratories



ENCO Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland	Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient								
Date/ Time Received: 04/02/2018 11:31:00 AM									
Work Order #: 581006	Temperature Measuring device used : R8								
Sample Rec	eipt Checklist C	Comments							
#1 *Temperature of cooler(s)?	4.1								
#2 *Shipping container in good condition?	Yes								
#3 *Samples received on ice?	Yes								
#4 *Custody Seals intact on shipping container/ cooler?	N/A								
#5 Custody Seals intact on sample bottles?	N/A								
#6*Custody Seals Signed and dated?	N/A								
#7 *Chain of Custody present?	Yes								
#8 Any missing/extra samples?	Νο								
#9 Chain of Custody signed when relinquished/ received?	Yes								
#10 Chain of Custody agrees with sample labels/matrix?	Yes								
#11 Container label(s) legible and intact?	Yes								
#12 Samples in proper container/ bottle?	Yes								
#13 Samples properly preserved?	Yes								
#14 Sample container(s) intact?	Yes								
#15 Sufficient sample amount for indicated test(s)?	Yes								
#16 All samples received within hold time?	Yes								
#17 Subcontract of sample(s)?	Νο								

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 04/02/2018

N/A

Checklist reviewed by: Jessica Vramer Jessica Kramer

Date: 04/02/2018