

EOG Resources, Inc.

Characterization & Remediation Plan

Empanada 6 Federal Com #1

30-025-36919

Section 6, T13S-R35E

Lea County, New Mexico

December 17, 2019



Table of Contents

•••

Appendix 9: Scaled site map with GPS coordinates showing delineation points

Appendix 10: Form C-141 Initial Report



Site Assessment/Characterization

I. Location

From Tatum, NM travel south on Highway 206 to Sartin Road (CR149), between MM17 & MM 18. Turn right (west) onto Sartin Road, continue for approximately 7.5 miles, then turn left (south) onto access road, through cattle guard for approximately 0.15 miles to the location. Appendix 1 contains the Site/Tops map.

II. Background

On November 11, 2019, EOG Resources, Inc. submitted to the NMOCD District I office a Form C-141, Release Notification for the release of 103 B/Produced Water with 25 B/Produced Water recovered. The affected area is approximately 4,075 square feet within the primary berm of the battery, the east edge of the production pad and an area of the production pad between the well and the battery. The release was caused by a drain valve on the back of the water tank that froze and failed, which caused the release. A vacuum truck was called and recovered the remaining produced water from the tank and what remained within the battery. A backhoe was dispatched and excavated contaminated soils from inside the bermed battery and the surface of the pad, contaminated soils were disposed at an NMOCD approved facility. This excavated area was approximately 60' X 34' (Battery area, green), 55' X 6' (Pad are, blue) and 40' X 50' (Pad area, yellow), Appendix 5. These soils will be taken to an approved NMOCD facility. The excavation depth was approximately 12" or 40 yards of contaminated soils (Appendix 6).

III. Surface and Ground Water

Area surface geology is Ogallala with alluvial and piedmont deposits. Based on information regarding this location (Section 6, T13S-R35E), the New Mexico Office of the State Engineer (NMOSE) Point of Diversion Summary indicates the depth to groundwater as follows: (NMOSE-L03635, Depth to Water: 40', Log File Date: 8/1957, Distance from Location: 1.9 miles & NMOSE-L06960, Depth to Water: 36', Log File Date: 7/1972, Distance from Location: 1.4 miles), the United States Geological Survey National Water Information System, indicates the depth to groundwater as follows: (USGS #331347103271901, Depth to Water: 33.1', Field groundwater-level measurements: 1991, Distance from Location: 0.4 miles & USGS #331406103253101, Depth to Water: 19.75', Field groundwater-level measurements: 1991, Distance from Location: 1.45 miles). Appendix 2 contains the Depth to groundwater diagram and the Wellhead protection area.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being the House Lake (10 miles, southeast of the location). Appendix 3 contains the Distance to nearest significant watercourse diagram.

There are no unstable areas (karst geology) in or around the location (Appendix 4, information per the Bureau of Land Management, Carlsbad Field Office). The location is not within a 100-year floodplain (Appendix 4, Nation Flood Hazard Layer/FEMA).



IV. NMOCD Table I Criteria

Depth to ground water < 50'
Wellhead Protection Area > 1000'
Distance to significant watercourse > 1000'

Depth	Constituent	Method	Limit
>100'	Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

V. Site Delineation Status

After excavation, initial sampling was conducted on November 11, 2019, with samples collected at the following depths. Samples were analyzed for the below constituents/methods as described in Section V. EOG will test the remediated areas for contamination with representative five-point composite samples. The samples will be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC.

S-1. 12" (12" BGL)

These samples were sent to an NMOCD approved laboratory and analysis for the following constituents/methods.

Chlorides: EPA 300.0
TPH (GRO+DRO+MRO): Method 8015M
BTEX: Method 8015B
Benzene: Method 8015B

Appendix 5 contains the Field Data/Sample Data.

Appendix 6 contains Laboratory Data and COC.



Remediation Plan

VI. Scope of Work

EOG Resources, Inc. will have a contractor further excavate soils and dispose at an approved facility from the following areas: S-1.PBL, S-1.PV, S-1.PO, S-1.BY, S-1.BBL & S-1.BP (Appendix 9) which were above Table I, Closure Criteria for <50 feet groundwater levels. EOG will sample the six (6) areas listed in the Scope of Work to confirm that the area impacted by the release are below limits listed in Table I, Closure Criteria for <50 feet groundwater levels.

EOG will notify the appropriate division district office two business days prior to conducting final sampling. Separate representative wall and base 5-point composite samples will be collected to show horizontal and vertical remediation. Each composite sample must not be representative of more than 200 ft².

If all composite and grab sample concentrations are less than or equal to the parameters listed in Table I or any conditions of approval, then EOG will proceed to backfill any excavated areas with like, clean soils at a slightly greater amount that was excavated to allow for settling and compaction.

VII. Site Closure

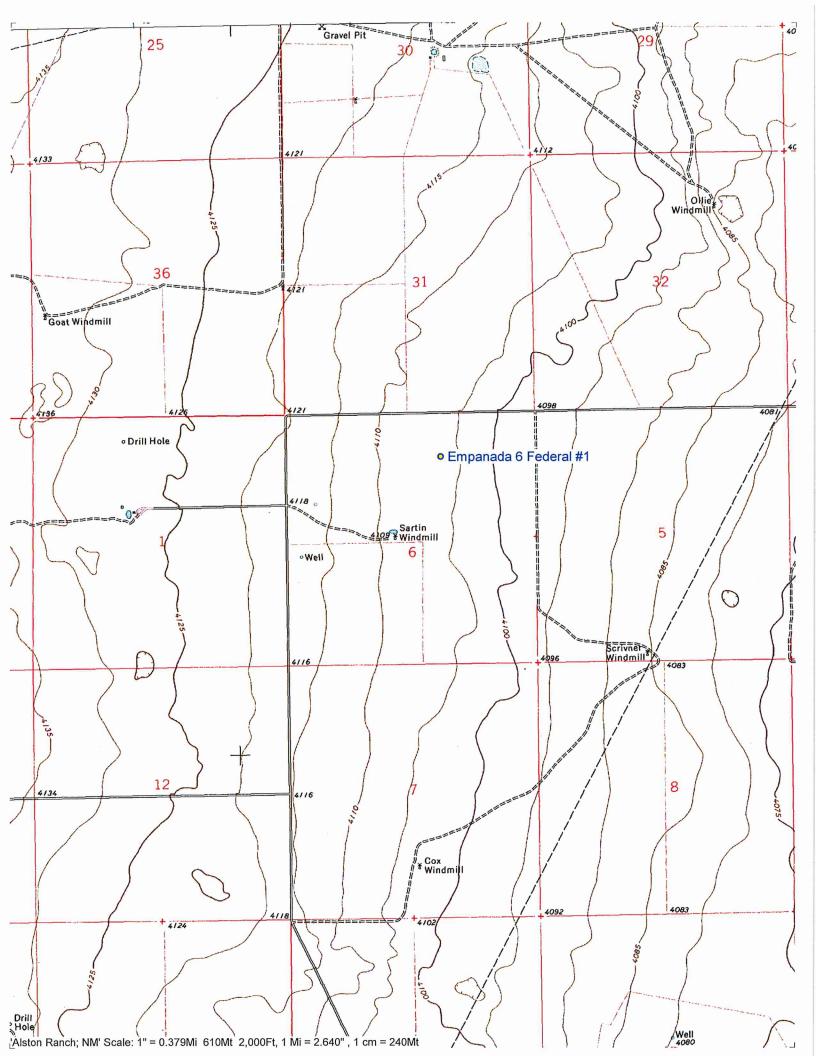
Upon completion of the remedial and backfilling activities, EOG Resources, Inc. will submit a Form C-141 to the NMOCD, and site closure requested.



Site/Topo Map

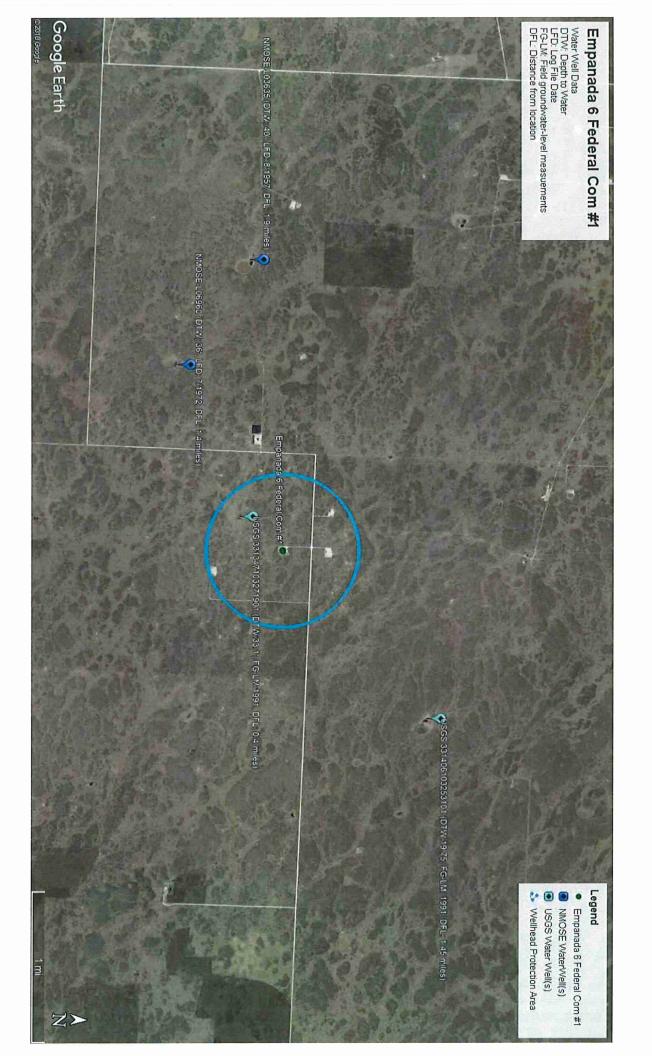








Depth to Water Determination/ Wellhead Protection Area





New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

L 03635

1 01 13S 34E

642815 3677304*

Driller License:

116

Driller Company: MATTHEWS DRILLING CO.

Driller Name:

JAMES WILLIAM MATTHEWS

Drill Start Date: 08/05/1957

Drill Finish Date:

08/08/1957

Plug Date:

Log File Date:

08/12/1957

7.00

PCW Rcv Date:

Shallow Source:

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

115 feet

Estimated Yield: Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description

80

115 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

75 115



New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

Χ

L 06960

3 01 13S 34E

642932 3676198*

Driller License:

322

Driller Company: BACKUS, GRADY

Driller Name:

BACKUS, GRADY

Drill Start Date: 07/08/1972

Drill Finish Date:

07/10/1972

Plug Date:

PCW Rcv Date:

Source:

Shallow

Log File Date: **Pump Type:**

07/24/1972

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

51 feet

Depth Water:

36 feet

Water Bearing Stratifications:

Description Top Bottom

36

Sandstone/Gravel/Conglomerate

POD SUMMARY - L 06960 Page 1 of 1 12/16/19 9:57 AM



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information 🗸		United States	~	GO

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USGS 331347103271901 12S.34E.36.422222

Available data for this site SUMMARY OF ALL AVAILABLE DATA >

Well Site

DESCRIPTION:

Latitude 33°14'06", Longitude 103°27'19" NAD27 Lea County, New Mexico , Hydrologic Unit 12080004

Well depth: not determined.

Land surface altitude: 4,120.30 feet above NGVD29.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level	1961-02-	1990-12-	7	
<u>measurements</u>	07	19	/	
Revisions	Unavailable	` ,		
	(timeseries:	(timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science

Email questions about this site to New Mexico Water Science Center Water-**Data Inquiries**

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Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency_code=USGS&site_no=331347103271901

USA.gov

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2019-12-16 12:34:47 EST

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USGS	Water	Resources
0303	AAGICI	resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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site_no list =

• 331347103271901

Minimum number of levels = 1

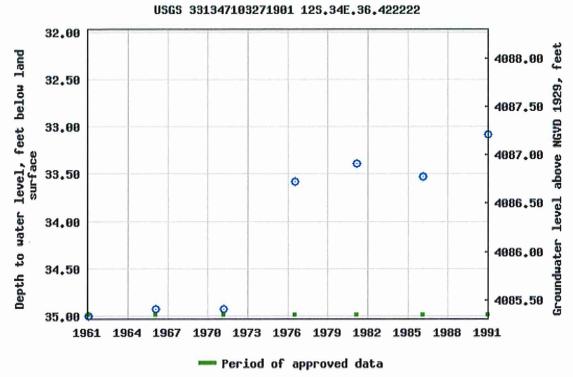
Save file of selected sites to local disk for future upload

USGS 331347103271901 12S.34E.36.422222

Available data for this site	Groundwater:	Field measurements	~	GO	
Lea County, New Mexico					
Hydrologic Unit Code 12080	0004				
Latitude 33°14'06", Longit	ude 103°27	''19" NAD27			
Land-surface elevation 4,12	20.30 feet a	bove NGVD29			
This well is completed in th	e Ogallala F	Formation (1210)	GLL)	local	aquifer.

Output formats

Table of data
<u>Tab-separated data</u>
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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USGS Water Resources

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Site Information V		United States	~	GO

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USGS 331406103253101 12S.35E.32.214421

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 33°14'22", Longitude 103°25'32" NAD27 Lea County, New Mexico , Hydrologic Unit 12080006

Well depth: 40 feet

Land surface altitude: 4,084.30 feet above NGVD29.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1961-02-	1990-12-	6
<u>measurements</u>	15	19	
Revisions	Unavailable	(site:0)	
KEVISIOIIS	(timeseries:0		

OPERATION:

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National Water Information System: Web Interface

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OSOS Water Resources	Groundwater \	/	United States	~	GO

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Search Results -- 1 sites found

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• 331406103253101

Minimum number of levels = 1

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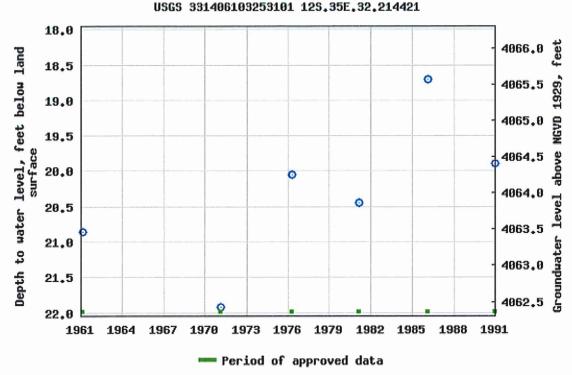
Available data for this site	Groundwater:	Field measurements	>] GO]
Lea County, New Mexico			
Hydrologic Unit Code 12080	0006		
Latitude 33°14'22", Longit	ude 103°25	5'32" NAD27	
Land-surface elevation 4,08	34.30 feet a	above NGVD29	
The depth of the well is 40	feet below	land surface.	
This well is completed in th	e Ogallala F	Formation (12100	GLL) local aquifer.

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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USGS Water Resources

Data Category:		Geographic Area:			
Site Information	~	United States	~	GO	

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USGS 331257103271701 13S.35E.06.311320

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 33°13'37.3", Longitude 103°27'19.3" NAD83 Lea County, New Mexico , Hydrologic Unit 12080004

Well depth: 115 feet

Land surface altitude: 4,121 feet above NAVD88.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1961-02-	2015-12-	13
<u>measurements</u>	14	19	13
Perisions	Unavailable (site:0)		
Revisions	(timeseries:0)		1

OPERATION:

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USA.gov

Page Contact Information: New Mexico Water Data Support Team

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National Water Information System: Web Interface

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0303	vvalei	Resou	I CES

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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site_no list =

• 331257103271701

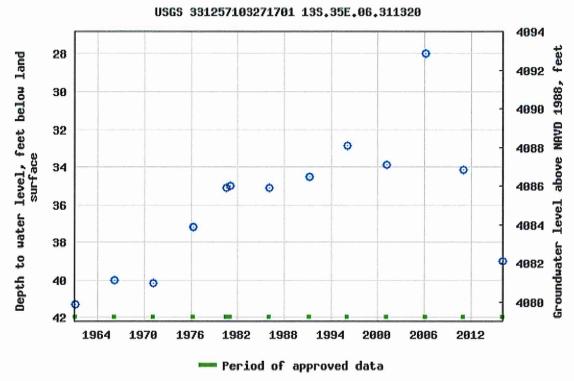
Minimum number of levels = 1

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USGS 331257103271701 13S.35E.06.311320

Available data for this site Groundwater: Field measurements GO
Lea County, New Mexico
Hydrologic Unit Code 12080004
Latitude 33°13'37.3", Longitude 103°27'19.3" NAD83
Land-surface elevation 4,121 feet above NAVD88
The depth of the well is 115 feet below land surface.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.
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Catpat formats			
Table of data			
Tab-separated data			
Graph of data			
Reselect period			



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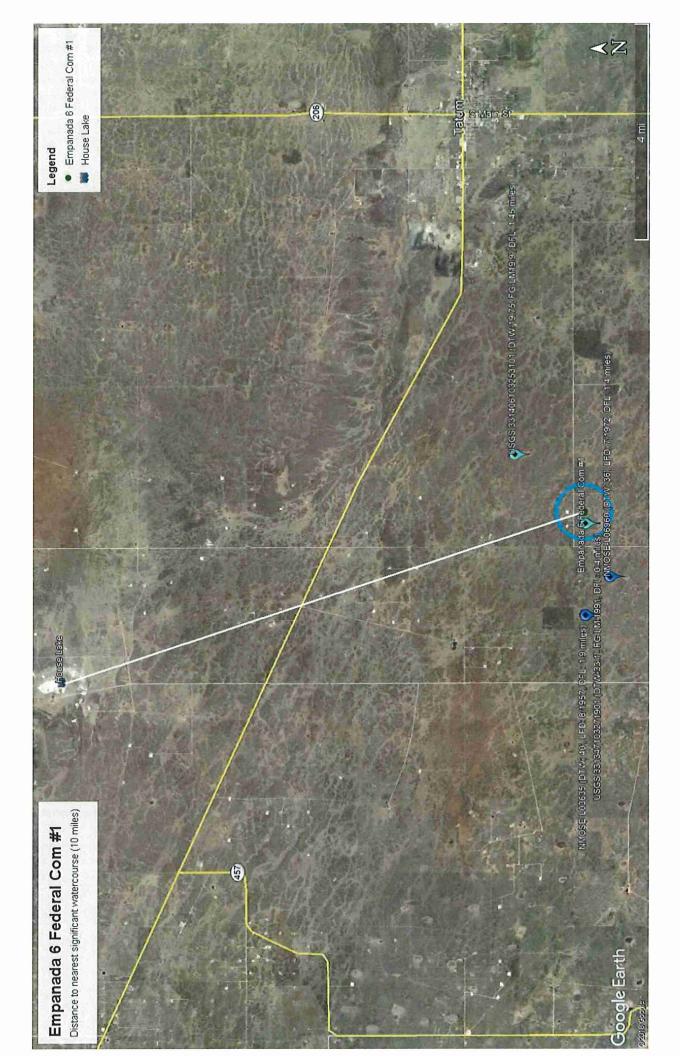
0.59 0.47 nadww01







Distance to Nearest Significant Watercourse





Karst Geology/Floodplain



National Flood Hazard Layer FIRMette







SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS



Regulatory Floodway With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Zone A, V, A99



0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag areas of less than one square mile Zone



Chance Flood Hazard Zone X Future Conditions 1% Annual



1

Levee. See Notes. Zone X Area with Reduced Flood Risk due to

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone

STRUCTURES | 1111111 Levee, Dike, or Floodwall GENERAL --- Channel, Culvert, or Storm Sewer

Water Surface Elevation Cross Sections with 1% Annual Chance

Base Flood Elevation Line (BFE) Coastal Transect

Coastal Transect Baseline Jurisdiction Boundary Limit of Study

Hydrographic Feature Profile Baseline

FEATURES

Digital Data Available No Digital Data Available

MAP PANELS

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

accuracy standards The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below. This map complies with FEMA's standards for the use of

reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. authoritative NFHL web services provided by FEMA. This map was exported on 12/16/2019 at 3:00:26 PM and does not The flood hazard information is derived directly from the

FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, regulatory purposes. elements do not appear: basemap imagery, flood zone labels, This map image is void if the one or more of the following map

250

500

1,000

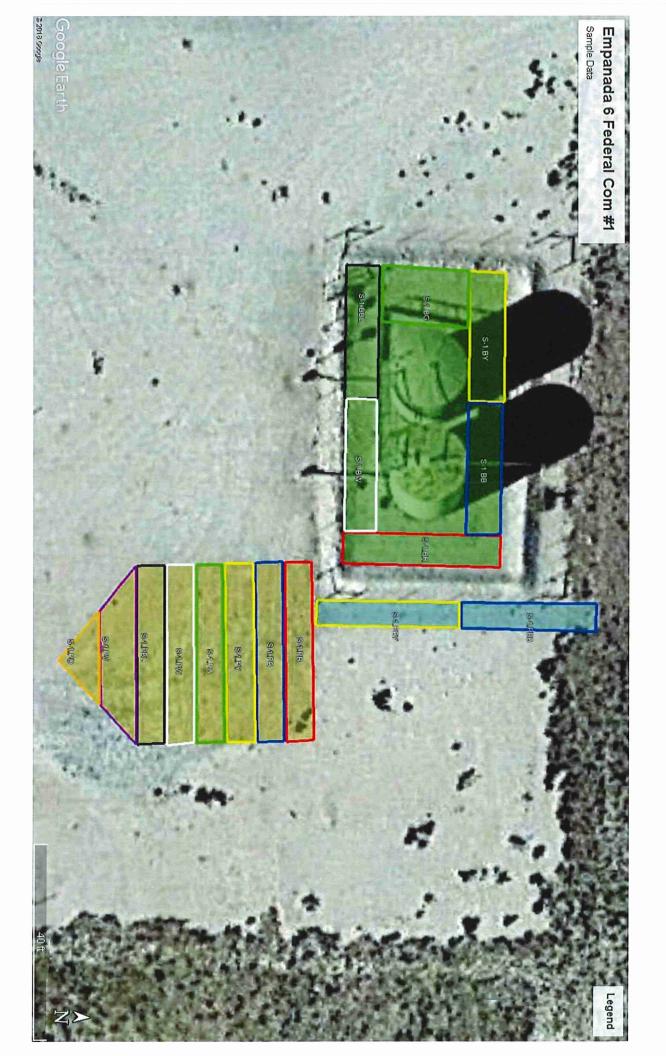
1,500

2,000



Field Data/Sample Data







Excavation logs

GANDY MARLEY, INC.

Customer ID

EOG RESOUCES INC

PO BOX 1658 ROSWELL, NM 88202

Voice: 575-347-0434 Fax: 575-347-0435 INVOICE

Invoice Number: 29457

Invoice Date: Nov 19, 2019

1

Payment Terms

Net 30 Days

Page:

Duplicate

Ship to:

EOG RESOURCES INC ATT: ACCOUNTS PAYABLE 104 S 4TH STREET ARTESIA, NM 88210

Bill to	Contractor of
EOG RESOURCES INC	-
ATT: ACCOUNTS PAYABLE	-
104 S 4TH STREET	I
ARTESIA, NM 88210	Ì
·	

Sales Rep ID	Shipping Method	Ship#Date	Due Dale
	Courier		12/19/19
Quantity: 20 (cm) 40.00 OCD EXEMPT	/Description	22.0	Amount
Check/Credit Memo No:	Subtotal Sales Tax Total Invoice Amount Payment/Credit Applied TOTAL		880.00 57.38 937.38

Customer PQ

VENDOR213922



NAME (PRINT)

DATE

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

28158

Company Man	Contact Information
lame <u>Me</u>	Contact Information

YV inc.	28138			Phone No.
		GENERATO	<u>DH</u> Location of Orig	in FAV panada 6 Fed comtt
Operator No.	S	and the state of t		1
•			Name & No	
Address			-	
			•	•
Phone No.			AFE/PO No	
ALTO	TIME STAMP	DISPOSAL FAC	<u>CILITY</u>	RECEIVING AREA Name/No.
	L. C.			
	mmercial Landfarm (NM-711-1-	-0020)	Phone No. 575	5-347-0434
Address P.O. Box 1658 R		· .	IEVEC	ding > 50 micro roentgens? (Circle One) YES NO
•	Taken? (Circle One) YES ter Test? (Circle One) YES	NO NO TRANSPORT	•	ding > 50 micro roentgens? (Circle One) YES NO
Transporter's Name	e Republic			
	T			
Address				
			Phone No Truck No2	
I hereby certify that the above	e named material(s) was/were pick	red up at the Generator's site	listed above and	delivered without incident to the disposal facility listed below.
OL WOLLDET DATE	DRIVER'S SIGNATUR	DE	11-Q-(7	DATE DENVER'S SIGNATURE
SHIPMENT DATE			volume part to	waste type in barrels or cubic yards)
·			oldine next to	INJECTABLE WATERS
Oil Based Muds Oil Based Cuttings		<u>ABLE WATERS</u> er (Non-Injectable)		Washout Water (Injectable)
Water Based Muds	Completion F	luid/Flowback (Non-Injectable)		Completion Fluid/Flowback (Injectable)
Water Based Cuttings Produced Formation Solids		ter (Non-Injectable) e Water/Waste (Non-Injectable)		Produced Water (Injectable) Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL US			OTHER EXEMPT WASTES
E&P Contaminated Soil	Truck Washou	ıt (Exempt Waste)		(Types and generation process of the waste)
Gas Plant Waste WASTE GENERATION PROCE	Sec. D Drilling	☐ Completion	ΠPm	duction ☐ Gathering Lines
WASTE GENERATION PROOF	.s.g. u Draining	a completion	2.10	
(All non-		npt E&P Waste/Service Ide d and be below the threshold lie		d Amount CLP), ignition, corrosiveness, and reactivity.)
Non-Exempt Other:			*Please select fr	rom Non-Exempt Waste List on back
QUANTITY:	B - Barrels	L - Liqui	d L	Y - Yards E - Each
		•		
		<u>C-138</u>		
I hereby certify that according to described waste load is (Check	to the Resource Conservation and F the appropriate classification)	Recovery Act (RCRA) and the U	JS Environmental	Protection Agency's July 1988 regulatory determination, the above
RCRA EXEMPT:	Oil field wastes generated from accepts certifications on a per t		roduction operation	ons and are not mixed with non-exempt waste. (Gandy Marley, Inc.
☐ RCRA NON-EXEMPT:		.24, or listed hazardous waste:	as defined by 40 C	idards for waste hazardous by characteristics established in RCRA DFR, part 261, subpart D, as amended. The following documentation items as provided.)
☐ MSDS I	nformation	☐ RCRA Hazardous Wa	ste Analysis	☐ Other (Provide Description Below)
☐ EMERGENCY NON-OILFIE	LD: Emergency non-hazardous, nor ous waste determination and a	n-oilfield waste that has been o description of the waste must a	rdered by the Dep accompany this fo	eartment of Public Safety. (The order, documentation of non-hazard-rm.)
(PRINT) AUTHORIZED	AGENTS SIGNATURE	DATE		SIGNATURE
				. // /
11 41		. 0	GI	0.01
- routhon	Machan 11-8.	<u>-1 7</u>	GI	

TITLE

SUPERIOR PRINTING SERVICE, INC.

SIGNATURE

GV inc.	
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NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

Company Man Contact Information

SUPERIOR PRINTING SERVICE, INC.

GENERATOR Location of Crigin Name & No. API No. County API No. Phone No. TRUCK TIME STAMP IN: DISPOSAL FACILITY RECEIVING AREA Name/No. IN: TRUCK TIME STAMP IN: DISPOSAL FACILITY RECEIVING AREA Name/No.	GM inc.	28101				Name Nacl O	'OMG
Diparation Nume Name & No.	TV IIIC.	20101			مسب	Phone No.	1 .
County	Operator No.					ada la Fed	PRA
County API No. City, State, Zip Ris Name & No. APEPO No. TRUCK TIME STAMP IN: LOZZM/LOUT Site Name / Permit No. Commercial Landfarm (NM-Y11-1-0020) Phone No. TRUCK TIME STAMP IN: LOZZM/LOUT Site Name / Permit No. Commercial Landfarm (NM-Y11-1-0020) Phone No. TRUCK TIME STAMP IN: LOZZM/LOUT Site Name / Permit No. Commercial Landfarm (NM-Y11-1-0020) Phone No. TRUCK TIME STAMP North Readings Taken? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO TRANSPORTER Transporter's Name LOZYM/LOUT Diver's Name Phone No. Truck No. Phone No. Phone No. Truck No. SHIPMENT DATE Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards wither Beast Cubings Name Phone No. Truck No. SHIPMENT DATE Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards wither Beast Cubings Name Phone Phone No. Truck No. SHIPMENT DATE Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards wither Beast Cubings Name Phone	Operators Name	EOG RES	OUSES	Name & No.		am #1	
API No. Pilg Name & No. APEPPO No. TRUCK TIME STAMP IN: DISDIFFORM No. DISPOSAL FACILITY IN: DISDIFFORM No. Commercial Landfarm (NM-711-1-0020) Phone No. 575-347-0434 Name/No. DISPOSAL FACILITY RECEIVING AREA Name/No. DISPOSAL FACILITY RE		•		County			
TRUCK TIME STAMP IN:				-			
TRUCK TIME STAMP IN:	City, State, Zin						
Name/No.	••••••			•			
Name/No.	TD/10// T	THEF OTARED	DISPOSAL FA	CILITY			
Site Name / Permit No. Commercial Landfarm (NM-711-1-0020) Phone No. 575-347-0434 Address P.O. Box 1658 Roswell, NM 882022 NORM Readings Talend (Circle One) YES NO Pass the Paint Filter Test? (Circle One) YES NO TRANSPORTER Transporter's Name Address Print Name Phone No. Truck No. Phone No. Ph					4	ECEIVING AREA	
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And Bottoms Cathering Line Water/Waste (Non-Injectable) Cathering Line Water/Waste (Injectable) Charles Exempt Waste Contembrated Soil Cathering Line Water/Waste Completion Completion Completion Cathering Lines Cathering Lines Completion Cathering Lines Ca	Water Based Muds	·		e)	,	, , ,	
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Truck Washout (Exempt Waste) Truck Washout (Exempt Waste) (Types and generation process of the waste) Asa Plant Waste (Types and generation process of the waste) Avaste Generation PROCESS: Drilling Completion Production Gathering Lines		,	•			* * * *	
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ous waste determination and a description of the waste must accompany this form.)	☐ MSDS in	formation	RCRA Hazardous W	laste Analysis	Q Ot	her (Provide Description Below))
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE	☐ EMERGENCY NON-OILFIEL					: (The order, documentation of r	non-hazard
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE							
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GMI TITLE

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

Company Man Contact Information Name NOV CONS

SUPERIOR PRINTING SERVICE, INC.

M inc.	d A	28103				Phone No	
<u> </u>			GENER	ATOR Location of O	rigin .	and i	1 4 /
Operator No	* 0 A	0		Lease/Well	EM EM	varya (e felletas
Operators Name	EUU	KE 30U	1.6.65	Name & No		(DM =	4/
Address			······································	County	······································		
	-	·····		API No			
City, State, Zlp				Rig Name & N	lo		
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TOUGH	TIL ST ATABED	·····	DISPOSAL	FACILITY	<u> </u>		. Pri Fr. A
	TIME STAMP OUT:			atan dinakantan katatah dinakan dina	Name/No.	RECEIVING A	
Site Name / Permit No. Co	mmercial Landfa	ırm (NM-711-1-002	20)	Phone No. 5	75-347-0434		
Address P.O. Box 1658 F							
	Taken? (Circle O	•	_	If YES, was re	ading > 50 micro	roentgens? (Circle C	One) YES NO
Pass the Paint Fi	Iter Test? (Circle (One) YES NO	TRANSP	ODTED			
Transaction Name &	paublin	13ACK	hop				
Transporter's Name	guille	- Duest	400				
Address	LOVING	Leal 4) M	7				
DI VI		1010,1011		Phone No	_2		
Phone No. I hereby certify that the above) was/were nicked i	on at the Generator's	Truck No	od delivered witho	out incident to the disn	osal facility listed holow
Thereby certify that the above	o manea mateman	y was were process	in de me demorator (1/5	1/1	Luis Secs	
SHIPMENT DATE	DRI	VER'S SIGNATURE		DELIVER			/O BIGNATURE
			n and Amount (Pla			parrels or cubic yard	
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Oil Based Cuttings	A	Washout Water (N		بيدي بروسي مستمنع ومستوسف المستقدم		ater (Injectable)	
Water Based Muds		•	Flowback (Non-Inject	able)		Fluid/Flowback (Injecta	ble)
Water Based Cuttings Produced Formation Solids		Produced Water (Non-Injectable) ater/Waste (Non-Injeci	table)		Vater (Injectable) .ine Water/Waste (Injecta	
Tank Bottoms		INTERNAL USE C			OTHER EXE	EMPT WASTES	
E&P Contaminated Soil		Truck Washout (E:	kempt Waste)		(Types and	generation process of th	ne waste)
Gas Plant Waste	Sec. C. Dalling		C Commission		oduction	D 0 . 11	
WASTE GENERATION PROCE	as: a priming		☐ Completion	u Pr	oduction	☐ Gatheri	ng Lines
(All non-	-exempt E&P waste			e Identification ar old limits for toxicity (rosiveness, and reactivit	y.)
Non-Exempt Other:			tin distribution and the state of the state	*Please select	from Non-Exempt	Waste List on back	
QUANTITY:		_ B - Barrels	L-	Llquid	10 Y - Yard	ds	E - Each
			<u>C-13</u>	<u>38</u>			
I hereby certify that according described waste load is (Check	to the Resource Co	nservation and Reco	very Act (RCRA) and	the US Environmental	Protection Agency	y's July 1988 regulatory	determination, the above
RCRA EXEMPT:	Oil field waste	•		nd production operati	lons and are not m	ixed with non-exempt w	vaste. (Gandy Marley, Inc
☐ RCRA NON-EXEMPT:	regulations, 40	CFR 261.21-261.24,	or listed hazardous w		CFR, part 261, sub	part D, as amended. The	etics established in RCR/ e following documentation
☐ MSDS I	nformation		☐ RCRA Hazardou	• • •		Other (Provide Desc	oription Below)
D = ==================================							
LI EMERGENCY NON-OILFIE				een ordered by the De nust accompany this f		Safety. (The order, docu	mentation of non-hazard
(PRINT) AUTHORIZED	AGENTS SIGNATUR	E	DATE			SIGNATUR	E
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NAME (PRINT) wife 19	DATE	-fl	************************	TLE	SIGN	ATURE ATURE

NAME (PRINT)

DATE

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

Co	трапу Мап	Contact	Information
Name	mpany Man	. G0	mer.

28104

TV inc.	20104	•	O D	Phone No.	
		GENERAT		gin E I A E .l A	#1
Operator No.	^	and the state of t	Lease/Well	gin Empanada 6 Fet Co	mar
Operators Name	G	Name of the last o	Name & No		·····
Address			County		
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City, State, Zip		•	Rig Name & No),	
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		DISPOSAL FA	CILITY		
	IME STAMP	<u> </u>	<u> </u>	RECEIVING AREA	
IN: 3:35 pm	OUT:			Name/No. Lan Viil	
ſ	nmercial Landfarm (NM-711-	1-0020)	Phone No. 575	5-347-0434	
Address P.O. Box 1658 Ro			(1,0,1,0 1,01		***************************************
NORM Readings Pass the Paint Filt	Taken? (Circle One) YES er Test? (Circle One) YES	NO NO TRANSPOR	TER	ding > 50 micro roentgens? (Circle One) YE	
Transporter's Name <u>Neg</u>	public Backhoe	<u>: Jervic</u> es	Driver's Name _		**************************************
Address			Print Name		***************************************
		and the same of th	Phone No	2	
Phone No		**************************************			
hereby certify that the above	named material(s) was/were pl	cked up at the Generator's site		d delivered without incident to the disposal facility li	isted below
***************************************			11-5-18	DATE DRIVER'S SIGNATURE	
SHIPMENT DATE	DRIVER'S SIGNATI				
Exempt	E&P Waste/Service Identific	cation and Amount (Place	volume next to	waste type in barrels or cubic yards)	
Oil Based Muds		TABLE WATERS		INJECTABLE WATERS	
Oil Based Cuttings Water Based Muds		ater (Non-Injectable) Fluid/Flowback (Non-Injectable))	Washout Water (Injectable)	
Water Based Cuttings	·	/ater (Non-Injectable)		Produced Water (Injectable)	
Produced Formation Solids	Gathering L	ine Water/Waste (Non-Injectable	e)	Gathering Line Water/Waste (Injectable)	
Fank Bottoms	INTERNAL			OTHER EXEMPT WASTES (Types and generation process of the waste)	
E&P Contaminated Soil Gas Plant Waste	Iruck wasn	out (Exempt Waste)		(Types and generation process of the wester	
WASTE GENERATION PROCES	SS: Drilling	☐ Completion	□ Pro	duction ☐ Gathering Lines	
(All non-e		empt E&P Waste/Service to ed and be below the threshold I		d Amount CLP), Ignition, corrosiveness, and reactivity.)	
Non-Exempt Other:			*Please select fr	rom Non-Exempt Waste List on back	
QUANTITY:	B - Barrels	L - Liqu	17	Y - Yards E - Each	h
		w sarqu			••
		<u>C-138</u>		•	
hereby certify that according to described waste load is (Check t	o the Resource Conservation and he appropriate classification)	Recovery Act (RCRA) and the I	US Environmental I	Protection Agency's July 1988 regulatory determination	n, the above
RCRA EXEMPT:	Oil field wastes generated fro accepts certifications on a per		oroduction operatio	ons and are not mixed with non-exempt waste. (Gandy	Marley, Inc.
☐ RCRA NON-EXEMPT:	regulations, 40 CFR 261.21-26		as defined by 40 C	dards for waste hazardous by characteristics establish FR, part 261, subpart D, as amended. The following doc tems as provided.)	
☐ MSDS Int	formation	RCRA Hazardous Wa	aste Analysis	Other (Provide Description Below))
				Attabase	
BMERGENCY NON-OILFIEL		on-oilfield waste that has been on a description of the waste must		artment of Public Safety. (The order, documentation of r rm.)	non-hazard-
(PRINT) AUTHORIZED A	GENTS SIGNATURE	DATE		SIGNATURE	
A consistence of the comment of the		2,112			20-
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TITLE

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SIGNATURE



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:38

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.PBL (3')	P002081-01A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
S-1.PV (3')	P002081-02A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
S-1.PO (3')	P002081-03A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:38

S-1.PBL (3') P002081-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1.	50	2009035	02/28/20	02/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO .						П		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		89.7 %	50-20	00	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO			i.						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	50-1.	50	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	473	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:38

S-1.PV (3') P002081-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1,	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-	150	2009035	02/28/20	02/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORG)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		83.5 %	50-2	200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	50-	150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	755	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:38

S-1.PO (3') P002081-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-	150	2009035	02/28/20	02/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORG	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		85.6 %	50-	200	2010005	03/02/20	03/02/20	EPA 8015D	-
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	50-	150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	477	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1.3	P002082-01A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-2.3	P002082-02A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-3.1	P002082-03A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-4.1	P002082-04A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-5.1	P002082-05A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-6.1	P002082-06A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

SW-1.3 P002082-01 (Solid)

		Reporting		•				_	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		91.2 %	50-	200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	50-	150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1580	40.0	mg/kg	2	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

SW-2.3 P002082-02 (Solid)

		Reporting			-				-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	l	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-15	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		86.6 %	50-20	00	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	50-15	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1470	100	mg/kg	5	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

SW-3.1 P002082-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORG	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		88.8 %	50	200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	50-	150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	64.9	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

SW-4.1 P002082-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	kO .								
Diesel Range Organics (C10-C28)	28.8	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	58.5	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		104 %	50-	-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	103	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

SW-5.1 P002082-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	.0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		91.7 %	50-2	200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	50-	150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/03/20 13:40

SW-6.1 P002082-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1	150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		89.0 %	50-2	200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	50-1	150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	



Appendix 7

Laboratory Data and COC



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 11/22/2019 Job Number: 19034-0001

Work Order: P911112

Project Name/Location: Empanada 6 Federal Com

#1

Report Reviewed By:	Walter Winking	Date:	11/27/19	
	Walter Hinchman, Laboratory Director			



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

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

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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.PR	P911112-01A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PB	P911112-02A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PY	P911112-03A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PG	P911112-04A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PW	P911112-05A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PBL	P911112-06A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PV	P911112-07A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PO	P911112-08A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PBY	P911112-09A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PBB	P911112-10A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

S-1.PR P911112-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		88.4 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	50-1	150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	34.9	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

S-1.PB P911112-02 (Solid)

	·	Reporting			·				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		95.2 %	50-	-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.2 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	30.9	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

S-1.PY P911112-03 (Solid)

		Reporting			_			_	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	I	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-15	50	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	25.7	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		91.3 %	50-20	00	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	l	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	50-15	50	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	97.5	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:47

S-1.PG P911112-04 (Solid)

		Reporting	22 01 (80)						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50-	150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	<u> </u>								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		92.4 %	50	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		86.8 %	50-	150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	109	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:47

S-1.PW P911112-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	35.3	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	51.7	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		84.7 %	50-2	00	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	50-1.	50	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A			_						
Chloride	113	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:47

S-1.PBL P911112-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	40.5	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	63.5	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		78.1 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	441	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

S-1.PV P911112-07 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8021B	-
Nonhalogenated Organics by 8015 - DRO/OR	00								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		83.8 %	50-	-200	1947050	11/22/19	11/26/19	EPA 8015D	-
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1250	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:47

S-1.PO P911112-08 (Solid)

		Reporting				·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	58.1	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	83.8	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		86.0 %	50-	-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	627	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:47

S-1.PBY P911112-09 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		82.9 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	34.9	20.0	mg/kg	I	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

S-1.PBB P911112-10 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		78.2 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		87.4 %	50-	150	1947049	11/22/19	11/23/19	EPA 8015D	•
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1947049 - Purge and Trap EPA 5030A			14							
Blank (1947049-BLK1)				Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250	п							
p,m-Xylene	ND	0.0500	u.							
o-Xylene	ND	0.0250	u							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.11		"	8.00		101	50-150			
LCS (1947049-BS1)				Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.11	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.05	0.0250		5.00		101	70-130			
p,m-Xylene	10.0	0.0500	и	10.0		100	70-130			
o-Xylene	5.02	0.0250		5.00		100	70-130			
Total Xylenes	15.1	0.0250	н	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			
Matrix Spike (1947049-MS1)	Sou	rce: P911105-)1	Prenared:	11/22/19 1 A	nalvzed: 1	1/22/19 2			
	5,28	0.0250		5.00	ND	106	54.3-133			
Benzene	5.34	0.0250	mg/kg	5.00	ND	107	61.4-130			
Toluene	5.27	0.0250	"	5.00	ND	107	61.4-133			
Ethylbenzene		0.0500		10.0	ND	105	63.3-131			
p,m-Xylene	10.5			5.00	ND	105	63.3-131			
o-Xylene	5.26 15.7	0.0250 0.0250		15.0	ND	105	63.3-131			
Total Xylenes	13.7	0.0230			ND		2007			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			
Matrix Spike Dup (1947049-MSD1)	Sou	rce: P911105-)1	Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	5.15	0.0250	mg/kg	5.00	ND	103	54.3-133	2.44	20	
Toluene	5.25	0.0250	11	5.00	ND	105	61.4-130	1.69	20	
Ethylbenzene	5.21	0.0250	n	5.00	ND	104	61.4-133	1.30	20	
p,m-Xylene	10.4	0.0500	w	10.0	ND	104	63.3-131	1.34	20	
o-Xylene	5.20	0.0250	n	5.00	ND	104	63.3-131	1.17	20	
Total Xylenes	15.5	0.0250	u	15.0	ND	104	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		"	8.00		103	50-150			

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Asstan	Develo	Reporting	T Inda	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	70REC	Limits	KPD	Liilit	notes
Batch 1947050 - DRO Extraction EPA 3570										
Blank (1947050-BLK1)				Prepared:	11/22/19 1 A	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0					*			
Surrogate: n-Nonane	48.3		"	50.0		96.5	50-200			
LCS (1947050-BS1)				Prepared:	11/22/19 1 A	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500		96.3	38-132			
Surrogate: n-Nonane	50.1		"	50.0		100	50-200			
Matrix Spike (1947050-MS1)	Sour	ce: P911105-0)1	Prepared:	11/22/19 1 A	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.0	38-132			
Surrogate: n-Nonane	48.4		"	50.0		96.8	50-200			
Matrix Spike Dup (1947050-MSD1)	Sour	ce: P911105-0)1	Prepared: 1	11/22/19 1 A	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.2	38-132	2.33	20	
Surrogate: n-Nonane	48.4		"	50.0		96.7	50-200			

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Austra	Danult	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Liiiit	Ollits	Level	Result	70KEC	Lillits	KI D	Limit	Ivotes
Batch 1947049 - Purge and Trap EPA 5030A										
Blank (1947049-BLK1)				Prepared:	11/22/19 1 A	analyzed: 1	1/22/19 2			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		"	8.00		86.5	50-150			
LCS (1947049-BS2)				Prepared:	11/22/19 1 A	analyzed: 1	1/22/19 2			
Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0		98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		"	8.00		88.0	50-150			
Matrix Spike (1947049-MS2)	Sour	ce: P911105-0)1	Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		"	8.00		88.2	50-150			
Matrix Spike Dup (1947049-MSD2)	Sour	ce: P911105-0)1	Prepared:	11/22/19 1 A	nalyzed: 1	1/23/19 0			
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130	0.217	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		"	8.00		87.2	50-150			



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:47

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1947045 - Anion Extraction EPA 300.0/9	056A									
Blank (1947045-BLK1)				Prepared &	z Analyzed:	11/22/19 0				
Chloride	ND	20.0	mg/kg							
LCS (1947045-BS1)				Prepared: 1	11/22/19 0 A	Analyzed: 1	1/22/19 1			
Chloride	241	20.0	mg/kg	250		96.4	90-110			
Matrix Spike (1947045-MS1)	Sour	ce: P911103-0)1	Prepared: 1	11/22/19 0 A	Analyzed: 1	1/22/19 1			
Chloride	271	20.0	mg/kg	250	ND	109	80-120			
Matrix Spike Dup (1947045-MSD1)	Sour	ce: P911103-0)1	Prepared: 1	11/22/19 0 <i>A</i>	Analyzed: 1	1/22/19 1			
Chloride	275	20.0	mg/kg	250	ND	110	80-120	1.38	20	

QC Summary Report

Comment:

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

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:47

Notes and Definitions

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

**

Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information	formation					Chain of Custody	ody							Page_	Je1_of1	
Client: EC	Client: EOG Resources, Inc.	es, Inc.				Report Attention		1		Lab Use Only	Only		TAT	ш	EPA Program	Τ
Project: E	Project: Empanada 6 Federal Com #1	6 Federa	Com #1	اسو	Rep	by:		LabW	#6	,	Job Number	mber	1D 3D	RCRA	CWA SDWA	ΑA
Project M.	Project Manager: Robert Asher	obert Ash	ier.		- Atte	Attention: Robert Asher		5	1112	STAGE OF	9	14034-000				Т
Address:	Address: 104 South 4th Street	4th Stree	it.		Adc	Address: 104 South 4th Street					Analysi	Analysis and Method	_			1
City, State Phone: (City, State, Zip Artesia, NM 88210 Phone: (575) 748-4217	sia, NM 8 1217	8210		- F Cit	City, State, Zip Artesia, NM 88210 Phone: (575) 748-4217		_	_			0			50	YZ
Email: rol	Email: robert asher@eogresources.com	@eogres	ources.c	com	Emi	Email: robert asher@eogresources.com		_	-	0978		'Anc			×	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab	ио/она	яа\ояа үd хэта	VOC by 8	0 sletaM	Chloride			Remarks	
12:20 PM	11/19/19	S	~	S-1.PR				×	×			×			BGDOC	
12:24 PM	11/19/19	S	Υ-	S-1.PB			2	×	×			×			BGDOC	
12:28 PM	11/19/19	S	_	S-1.PY			3	×	×			×			верос	
12:32 PM	11/19/19	S	-	S-1.PG			h	×	×			×			BGDOC	
12:37 PM	11/19/19	S	-	S-1.PW			5	×	×			×			BGDOC	
12:41 PM	11/19/19	တ	~	S-1.PBL			9	×	×			×			верос	
12:46 PM	11/19/19	တ	~	S-1.PV			4	×	×		<u> </u>	×			BGDOC	
12:54 PM	11/19/19	S	~	S-1.PO			6	×	×		- 192 <u>- 1</u>	×			BGDOC	
12:58 PM	11/19/19	S	7	S-1.PBY			6	×	×			×			BGDOC	
1:01 PM	11/19/19	S	~	S-1.PBB			0	×	×			×			BGDOC	
Additional In PO# 205632	Additional Instructions: PO# 205632	ons:														
I, (field sample: time of collecti	r), attest to the v	ralidity and aut	thenticity of t	, (field sampler), attest to the validity and authenticity of this sample. I am aware that to time of collection is considered fraud and may be grounds for legal action. Sampled by:	ware that tampering a	l, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for leval action. Sampled by:	ate or			o a	amples req	Samples requiring thermal preservation must be received on ice the day the packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	vation must be rev re 0 but less than (ceived on ice the da 6°C on subsequent	Samples requiring thermal preservation must be received on lee the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	70
Relinquishe	Relinquished by: (Signature)	W.E.	Date 11	Date 11/20/2019	Time 9:00 AM	Received by: (Signature)	Date 11 22 19	F 0	Time A: P		Receiv	Received on ice:	Dab U	ab Use Only		
Relinquishe	Relinquished by: (Signature)	ure)	Date	te.	Time	Received by: (Signature)	Date	ļĒ.	Time		AVG T	AVG Temp °C 4	727		55	
Sample Matri	ix: S - Soil, Sd -	Solid, Sg - Si	udge, A - A	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	i.		Container T	ype: g	- glass,	ylod - c	/plastio	Container Type: g = glass, p - poly/plastic, ag - amber glass, v - VOA	glass, v - V	OA		П
Note: Sample those sample	ss are discarde	d 30 days af the laborato	ter results a ry with this	are reported unit COC. The liabili	ess other arrangem ity of the laborator	Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the abovatory is limited to the amount paid for on the report.	ned to client or a	dispose	d of at the	client ex	pense. 1	he report for th	e analysis of	the above sam	iples is applicable only 1	2
																T

5796 US Highway 64, Farmington, NM 87401 24 hour Emergency Response Phone (800) 362-1879

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Analytical Laboratory

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Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 11/22/2019 Job Number: 19034-0001

Work Order: P911105

Project Name/Location: Empanada 6 Federal Com

#1

Report Reviewed By:	Walter Hinkman	Date:	11/27/19	
	Walter Hinchman, Laboratory Director	_		



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

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

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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.BB	P911105-01A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BY	P911105-02A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BG	P911105-03A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BBL	P911105-04A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BW	P911105-05A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BR	P911105-06A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:40

S-1.BB P911105-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/25/19	EPA 8015D	
Surrogate: n-Nonane		92.1 %	50-2	00	1947050	11/22/19	11/25/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:40

S-1.BY P911105-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	0.153	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	0.0566	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	0.210	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1	150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	318	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		111 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	50-1	150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:40

S-1.BG

P911105-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-1	150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO .								
Diesel Range Organics (C10-C28)	39.9	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		95.2 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	50-1	50	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:40

S-1.BBL P911105-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	I	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	0.0801	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	0.0618	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	0.142	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-	150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	179	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		98.6 %	50-2	200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	50-	150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:40

S-1.BW P911105-05 (Solid)

		Reporting	00 00 (00						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		89.0 %	50-	-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	50-	-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A	v								
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:40

S-1.BR P911105-06 (Solid)

			03-00 (30	mu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	0.116	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	0.0830	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	0.199	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	138	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		90.3 %	50	-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	50	-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:40

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1947049 - Purge and Trap EPA 5030A										
Blank (1947049-BLK1)				Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	н							
Ethylbenzene	ND	0.0250	11							
p,m-Xylene	ND	0.0500	н							
o-Xylene	ND	0.0250	n							
Total Xylenes	ND	0.0250	п							
Surrogate: 4-Bromochlorobenzene-PID	8.11		"	8.00		101	50-150			
LCS (1947049-BS1)				Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.11	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.05	0.0250		5.00		101	70-130			
p,m-Xylene	10.0	0.0500	11:	10.0		100	70-130			
o-Xylene	5.02	0.0250	n	5.00		100	70-130			
Total Xylenes	15.1	0.0250		15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			
Matrix Spike (1947049-MS1)	Sou	rce: P911105-()1	Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	5.28	0,0250	mg/kg	5.00	ND	106	54.3-133			
Toluene	5,34	0,0250	"	5.00	ND	107	61.4-130			
Ethylbenzene	5.27	0,0250	п	5.00	ND	105	61.4-133			
p,m-Xylene	10.5	0.0500		10.0	ND	105	63.3-131			
o-Xylene	5.26	0.0250	n .	5.00	ND	105	63.3-131			
Total Xylenes	15.7	0.0250	н	15.0	ND	105	63,3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.24		11	8.00		103	50-150			
Matrix Spike Dup (1947049-MSD1)	Sou	rce: P911105-(01	Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Benzene	5.15	0.0250	mg/kg	5.00	ND	103	54.3-133	2.44	20	
Toluene	5.25	0.0250	"	5.00	ND	105	61.4-130	1.69	20	
Ethylbenzene	5.21	0.0250	H.	5,00	ND	104	61.4-133	1.30	20	
p,m-Xylene	10.4	0.0500		10.0	ND	104	63,3-131	1.34	20	
o-Xylene	5.20	0.0250	u	5.00	ND	104	63.3-131	1.17	20	
Total Xylenes	15.5	0,0250	"	15.0	ND	104	63.3-131	1.28	20	
			"	1-90000		103	50-150			
Surrogate: 4-Bromochlorobenzene-PID	8.22			8.00		103	30-130			

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:40

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1947050 - DRO Extraction EPA 3570										
Blank (1947050-BLK1)				Prepared:	11/22/19 1 A	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	u							
Surrogate: n-Nonane	48.3		n	50.0		96.5	50-200			
LCS (1947050-BS1)				Prepared:	11/22/19 1 /	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500		96.3	38-132			
Surrogate: n-Nonane	50.1		"	50.0		100	50-200			
Matrix Spike (1947050-MS1)	Source: P911105-01			Prepared:	11/22/19 1 /	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.0	38-132			
Surrogate: n-Nonane	48.4		п	50.0		96.8	50-200			
Matrix Spike Dup (1947050-MSD1)	Source: P911105-01			Prepared:	11/22/19 1 /	Analyzed: 1	1/25/19 1			
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.2	38-132	2.33	20	
Surrogate: n-Nonane	48.4		"	50.0		96.7	50-200			



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 11/27/19 09:40

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947049 - Purge and Trap EPA 5030A										
Blank (1947049-BLK1)				Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		"	8.00		86.5	50-150			
LCS (1947049-BS2)				Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0		98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		"	8.00		88.0	50-150			
Matrix Spike (1947049-MS2)	Sour	ce: P911105-0)1	Prepared:	11/22/19 1 A	nalyzed: 1	1/22/19 2			
Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		"	8.00		88.2	50-150			
Matrix Spike Dup (1947049-MSD2)	Sour	ce: P911105-0)1	Prepared:	11/22/19 1 A	nalyzed: 1	1/23/19 0		Ÿ	
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130	0.217	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		"	8.00		87.2	50-150			



Project Name:

Empanada 6 Federal Com #1

104 South 4th Street

Project Number:

19034-0001

Reported:

Artesia NM, 88210

Project Manager: Robert Asher

11/27/19 09:40

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1948006 - Anion Extraction EPA 300	.0/9056A									
Blank (1948006-BLK1)				Prepared &	k Analyzed:	11/25/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1948006-BS1)				Prepared &	k Analyzed:	11/25/19 1				
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1948006-MS1)	Sour	ce: P911105-0)1	Prepared: 1	11/25/19 1 A	Analyzed: 1	1/26/19 0			
Chloride	258	20.0	mg/kg	250	ND	103	80-120			
Matrix Spike Dup (1948006-MSD1)	Sour	ce: P911105-0)1	Prepared: 1	11/25/19 1 A	Analyzed: 1	1/26/19 0			
Chloride	259	20.0	mg/kg	250	ND	103	80-120	0.194	20	

QC Summary Report

Comment:

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

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Project Name:

Empanada 6 Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 11/27/19 09:40

Notes and Definitions

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

**

Methods marked with ** are non-accredited methods.

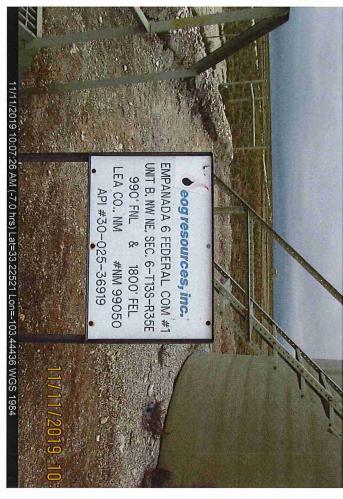
Soil data is reported on an "as received" weight basis, unless reported otherwise.

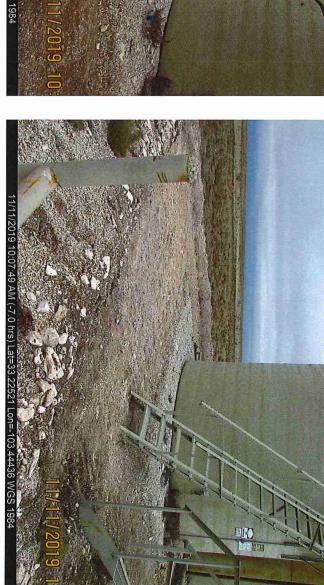
Project Information		Chain of Custody				Page1_of1
Client: EOG Resources, Inc. Project: Empanada 6 Federal Com #1	4	Report Attention Report due by: 11/27/2019	Lab WO#	Lab Use Only Job Number	TAT 10 3D	EPA Program RCRA CWA SDWA
Project Manager: Robert Asher		ber	PQ11105	1000- h20b1		
		_		Analysis and Method	g	State
City, State, Zip Artesia, NM 88210		City, State, Zip Artesia, NM 88210	_			NM CO UT AZ
urces	Fnone: (5/5) /48-441/ Email: robert asher@eogresources.com	Fnone: (5/5) /48-421/ Email: robert asher@eogresources.com	8 yd (010		×
No Containers	Sample ID		Lab DRO/ORG	8 VOC by 8 VOC by 8 VOC by 9 V		Remarks
~	S-1.BB		1 × × ×	×		BGDOC
~	S-1.BY		× × × × 2	×		BGDOC
-	S-1.BG		3 × × × ×	×		BGDOC
-	S-1.BBL		× × ×	×		BGDOC
7	S-1.BW		い × × ×	×		BGDOC
7	S-1.BR		× × ×	×		BGDOC
-						
enticity of be grouns	 (field sampler), attest to the validity and authenticity of this sample. I am aware that ta time of collection is considered fraud and may be grounds for legal action. Sampled by: 	l, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:	05	Samples requiring thermal preservation must be received on ice the day the packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	rvation must be received ove 0 but less than 6°C	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.
۵	Date Time 11/20/2019 9:05 AM	Received by: (Signature)	Date Time 7:45	Received on ice:	Lab Use Only	e Only
)	Date Time	rej /	Date Time	T1 AVG Temp °C_	72	T3
ge, A - results with thi	Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other a those samples received by the laboratory with this COC. The liability of the l	Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other Container Type: B - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA ed to client or disposed of at the client expense. The report for the analysis of the	- poly/plastic, ag - amber ient expense. The report for th	r glass, v - VO/ he analysis of the	above samples is applicable only to
C	envirotech	5796 US Highway 64, Farmington, NM 87401		Ph (505) 632-0615 FX (505) 632-1865	1865	envirotech-inc.com
)		24 hour Emergency Response Phone (800) 362-1879				labadmin@envirotech-inc.com

Analytical Laboratory



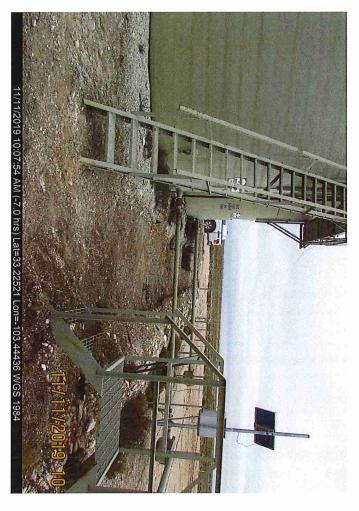
Appendix 8 Photos

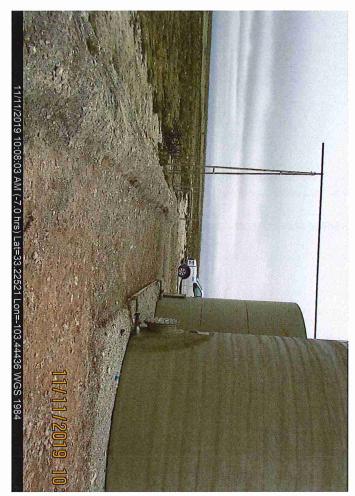


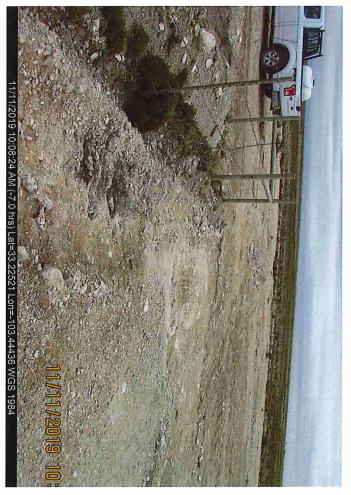


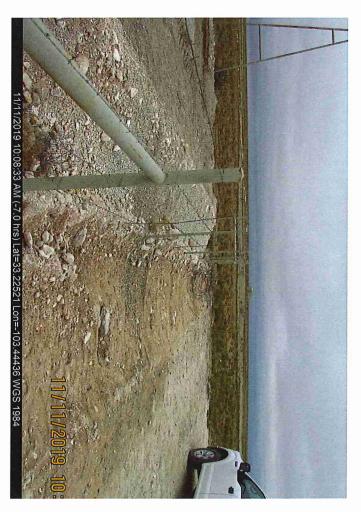


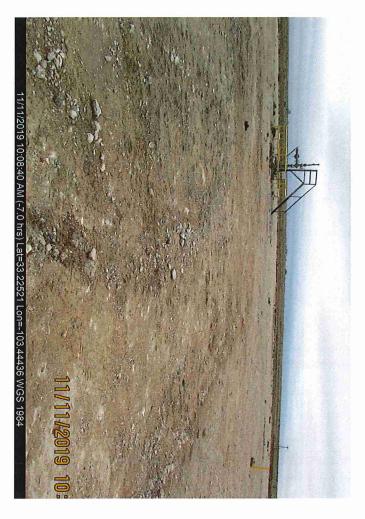


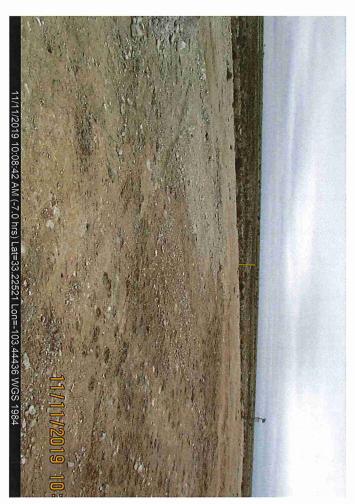




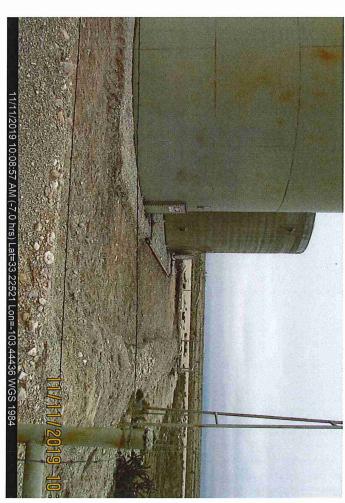


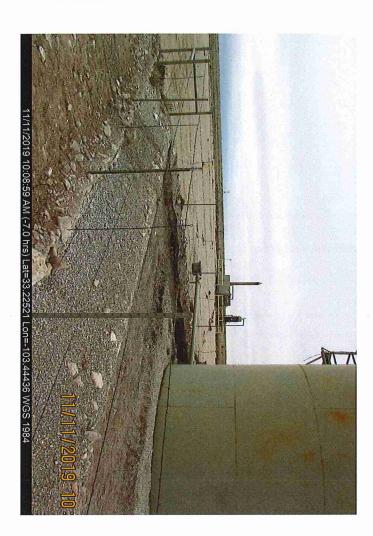








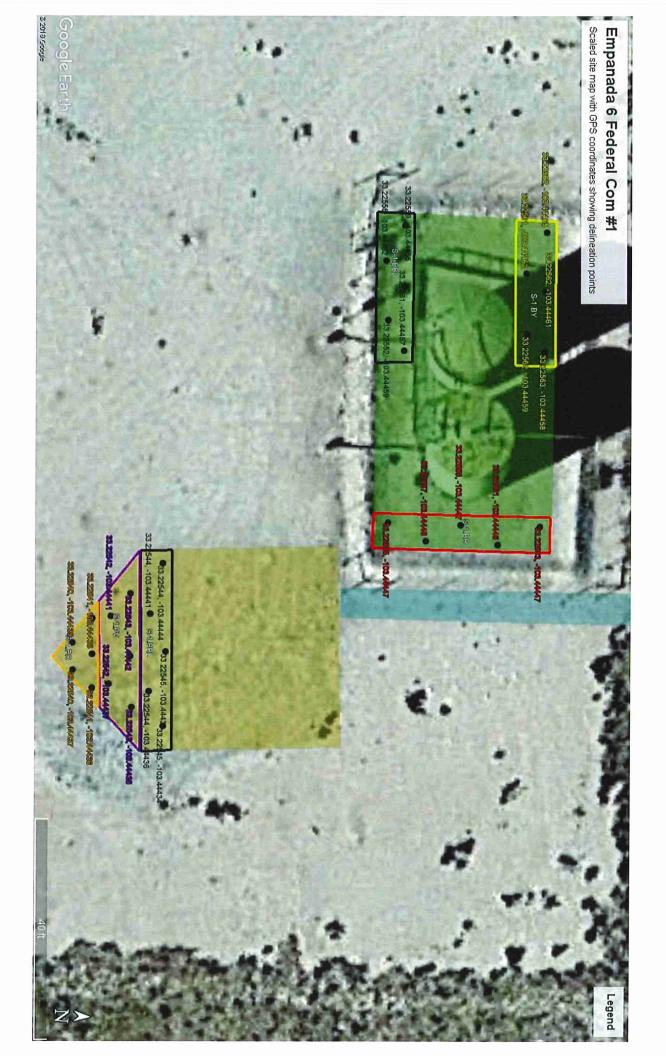


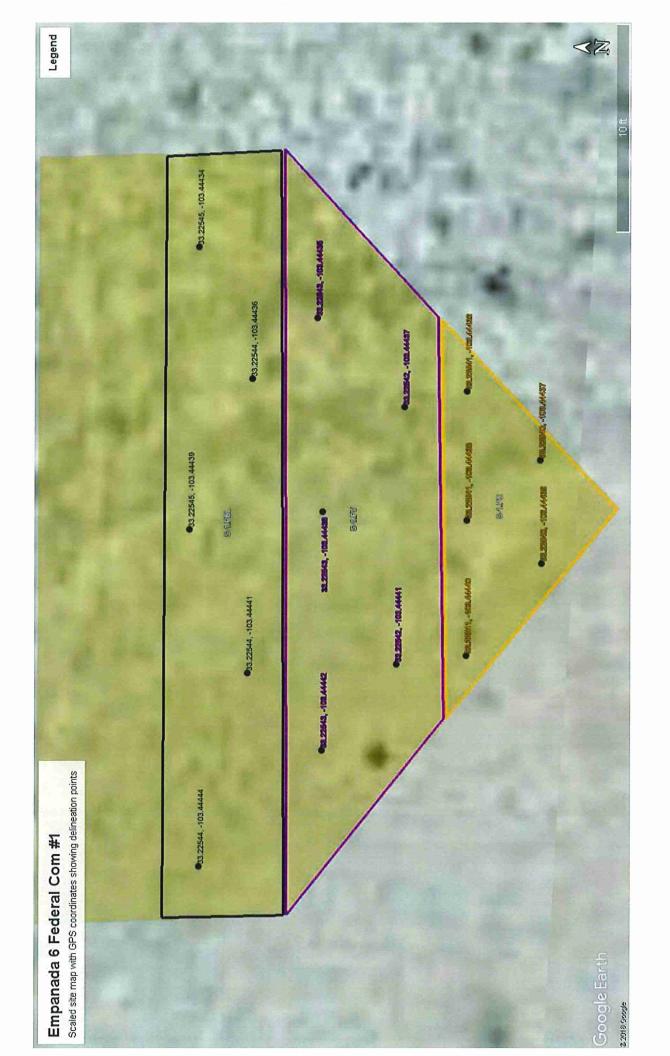


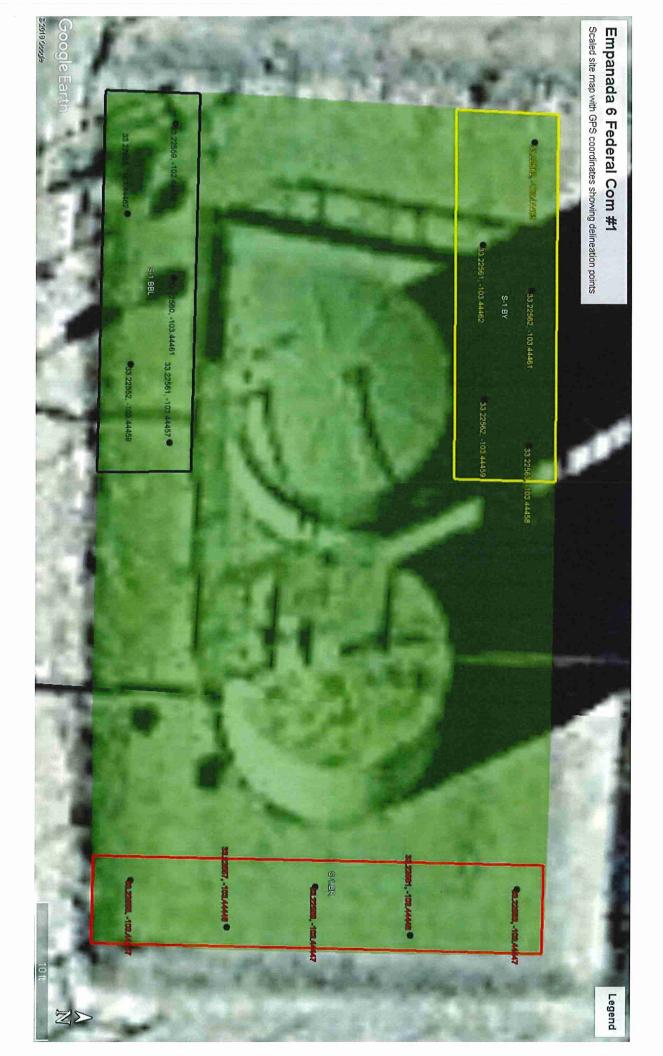


Appendix 9

Scaled site map with GPS coordinates showing delineation points









Appendix 10

Form C-141 Site Assessment/Characterization Remediation Plan

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party EOG Resources, Inc.

Contact Name

Robert Asher

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Telephone 575-748-4217

7377

Contact email			Incident #	(assigned by OCD)			
bob_asher@eogresources.com Contact mailing address							
Contact mail 104 S. 4 th	ing address						
104 5. 4**							***************************************
			Location	a of D	Release So	OHIMOO	
			Location	I OI I	kelease Si	burce	
Latitude 33.2	2530				Longitude _	103.44439	
			(NAD 83 in a	lecimal de	grees to 5 decin		
Sita Nama: E	mnanada 6 I	Federal Com #1			Sita Typa:	Pottomi	
					Site Type: Battery		
Date Release:	Discovered	10/31/19			API# 30-02	25-36919	
		T	i				
Unit Letter	Section	Township	Range		Coun	ity	
В	6	13S	35E	Lea			
							I
Surface Owner	:: State	☐ Federal ☐ Tr	ribal 🛛 Private	(Name:	John R Ingle	?)
			Nature an	d Vo	lume of I	Release	
	Makaala	1/-) D-1	11 4141	1 1 1			
Crude Oil		Volume Release		n caicuia	ions or specific	Volume Reco	volumes provided below) vered (hbls)
Produced	Water	Volume Release	` '			Volume Reco	vered (bbls) 25
			ion of dissolved	chlorid	e in the	Yes N	o
	produced water >10,000 mg/l?						
☐ Condensa	volume Released (bbls)			Volume Reco	vered (bbls)		
☐ Natural G	as	Volume Release	d (Mcf)			Volume Reco	vered (Mcf)
Other (des	scribe)	Volume/Weight	Released (provide	de units)	Volume/Weig	ht Recovered (provide units)
	,	J	VI.	,			,
. C CD-1-				***************************************			
Cause of Rele		ater tank froze and	i failed I eace or	nerator i	colated tank	and had 30 harr	els of water pulled from tank and
		spill from ground.	r rancu. Lease of	ociator i	solated talk (and nad 50 barr	is of water pulled from tank and
		F 8 8					

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Was this a major If Y release as defined by	YES, for what reason(s) does the responsible party consider this a major release?
	.15.29.7 DEFINITIONS:
⊠ Yes □ No	A. "Major release" means:(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice Yes.	e given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Chase Settle, EOG Resources,	
Jim Griswold, ENMRD, emnr	rd-ocd-district1spills.nm.us, blm_nm_cfo@blm.gov Thu, 10/31/2019 10:14 AM (email)
	Initial Response
The responsible party i	must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release h	has been stopped.
	en secured to protect human health and the environment.
	been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	erable materials have been removed and managed appropriately.
If all the actions described abo	ove have <u>not</u> been undertaken, explain why:
Per 19 15 29 8 B (4) NMAC t	the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a nar	rrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
	ea (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	on given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and ired to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environment.	The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have not remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of a C-	-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Robert Asher	Title: Environmental Supervisor
Signature:	Date:
email: bob_asher@eogresource	Telephone: <u>575-748-4217</u>
OCD Only	
Received by:	Date:

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data 	ls.
Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	
 ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps 	
☐ Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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regulations all operators are required to report and/or file certain release notificable to health or the environment. The acceptance of a C-141 report by the Od failed to adequately investigate and remediate contamination that pose a threat addition, OCD acceptance of a C-141 report does not relieve the operator of r and/or regulations.	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have it to groundwater, surface water, human health or the environment. In
Printed Name: Robert Asher	Title: Environmental Supervisor
Signature:	Date: <u>12/17/2019</u>
email: bob_asher@eogresources.com	Telephone: <u>575-748-4217</u>
OCD Only	
Received by: Cristina Eads	Date: 04/07/2020

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Robert Asher Title: Environmental Supervisor Date: 12/17/2019 Telephone: 575-748-4217			
OCD Only			
Received by: Cristina Eads Date: 03/17/2020			
Approved			
Signature: Date: 03/17/2020			