

September 16, 2022

District Supervisor Oil Conservation Division, District 1 1625 N. French Dr Hobbs, NM 88240

Re: Closure Report - Revised ConocoPhillips (Heritage Concho) Phillips State #1 (Heater Treater Release) API # 30-025-30956 Unit Letter O, Section 17, Township 21 South, Range 35 East Lea County, New Mexico Incident ID nOY1733235874 1RP-4883

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to complete remedial actions at the Phillips State #1 (API No. 30-025-30956) as a result of a of heater treater release (Site), located approximately fourteen miles west of Eunice in Lea County, New Mexico, as shown on Figures 1 and 2.

#### BACKGROUND

The Heritage Concho Phillips State #1 is located at approximately 32.4744949°, -103.3875351° in Public Land Survey System (PLSS) Unit Letter O, Section 17, Township 21 South, and Range 35 East. Based on information provided by COP representatives, the well and associated lease pad are located on land leased by the Merchant Livestock Company (MLSCO). The well itself is plugged. A review of the online imaging database maintained by the NMOCD indicates that one open release incident is associated with the well. The C-141 for the open release is included in Appendix A.

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release occurred on November 26, 2017, due to a hole that developed on the bottom of the heater treater. Approximately 3 barrels (bbls) of oil and 13 bbls of produced water were released inside of the unlined earthen berms surrounding the heater treater, and no free liquids were recovered during initial response actions. The NMOCD approved the initial C-141 on November 28, 2017, and subsequently assigned the release the Incident ID nOY1733235874 and the Remediation Permit (RP) Number 1RP-4883.

Previous assessment and remediation work was conducted at the Heater Treater Release Site and documented in a *Remediation Summary and Risk-Based Site Closure Request* (Closure Request) that was submitted to NMOCD in September 2018. This Closure Request is documented as approved in the NMOCD imaging database for the incident. Remediation of a portion of the nOY1733235874 release extent immediately around the heater treater equipment was approved for deferral until abandonment of the facility. A copy of the closure request is included in Appendix B.

#### SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated

municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one (1) documented well within 800 meters (approximately ½ mile) of the Site that was drilled to 200 feet bgs with no groundwater encountered. The average depth to groundwater based on data from three (3) water wells located within 3,600 meters (approximately 2.25 miles) of the Site is 126 feet below ground surface (bgs). The site characterization data is included in Appendix C.

#### **REGULATORY FRAMEWORK**

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	<b>Reclamation Requirements</b>
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

#### SUMMARY OF PREVIOUS ASSESSMENT AND REMEDIATION ACTIVITIES

On February 7, 2018, Concho Resources (COG) submitted via email a *Soil Investigation Summary and Proposed Remediation Workplan* dated January 23, 2018 (*Workplan*), to NMOCD, proposing remedial actions to address the release. The remedial actions proposed included excavating the impacted soil within the release extent and at sample location North @ 6" to a depth of 10 inches bgs, or until field tests indicated soil concentrations below the Site RRALs. Confirmation floor and sidewall samples were proposed for collection at approximate fifty-foot increments. The Workplan was approved via email dated February 19, 2018, with the condition that the additional delineation sample locations proposed for collection during the proposed excavation be collected at two depth intervals.

Remediation activities commenced at the Site on March 8, 2018, per the approved Workplan. A *Remediation Summary and Permission to Backfill Request* dated June 26, 2018, was submitted to NMOCD following the remedial actions taken at the Site between March and July 2018. In response, NMOCD requested additional sampling to complete delineation of the release in the vicinity of sample locations Floor 1 and Floor 2. On July 25, 2018, two (2) soil samples (SP #1b @ 2' and SP #2b @ 3.5') were successfully collected from the floor of the excavation.

The final confirmation sampling results were below the Site RRALs for all constituents except for the floor samples, which both exceeded the TPH RRAL of 100 mg/kg. An *Amended Remediation Summary and Permission to Backfill Request* dated August 7, 2018 was submitted to NMOCD, summarizing the

Closure Report September 16, 2022 Page 3 of 204

assessment and remediation activities taken at the Site. In this report, COG requested permission to backfill the open excavation and also requested deferral of the TPH impacts at the base of the excavation until abandonment of the facility, citing safety concerns for the onsite production equipment. These areas include the sample locations SP #1 @ 10"-R (5,337 mg/kg TPH and 1,520 mg/kg chloride), North @ 6" (687 mg/kg chloride), FL-1 (2,933.4 mg/kg TPH and 1,260 mg/kg chloride), FL-2 (1,125.6 mg/kg TPH and 968 mg/kg chloride), and ESWb (3,890.9 mg/kg TPH), as shown in the final closure report/deferral request in Appendix B. The NMOCD approved the report and granted permission to backfill on August 21, 2018. Concurrence from the New Mexico State Land Office (NMSLO) was provided via email dated August 29, 2018. Regulatory correspondence is found in the incident file on the NMOCD imaging database.

Thus, on August 30, 2018, the excavation was backfilled with locally sourced, non-impacted, like material and contoured to meet the needs of the facility. The final dimensions of the excavated area were approximately 45 feet in length by 35 feet in width, with depths ranging from 1 to 3 feet bgs. Approximately 120 cubic yards of contaminated soils were transported to R360 Halfway facility in Hobbs, NM for disposal.

In September 2018 the Closure Request summarizing the assessment and remediation activities performed at the Site was submitted to NMOCD (Appendix B). On November 6, 2018, NMOCD approved the site for closure, with remaining impacted soils to be left in place under the active production equipment until abandonment of the facility.

#### **REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING**

Based upon the NMOCD approval of the aforementioned *Remediation Summary and Risk-Based Site Closure Request*, the remaining Site impacts would be addressed at time of abandonment, retrofit or inactivity. From February 21 – March 2, 2022, Tetra Tech personnel were onsite to supervise the additional remediation activities at the former heater treater release area, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD division district office was notified via email on February 25, 2022. Documentation of associated regulatory correspondence is included in Appendix D. Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site.

Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance. Confirmation samples were collected from the former heater treater area such that each discrete sample (sidewall and floor) were representative of no more than 200 square feet of excavated area. A total of three (3) floor sample locations and six (6) sidewall sample locations were collected during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-"A"-# with preceding cardinal directions (N/S/E/W or C for central), and confirmation floor sample locations were labeled with "FS"-"A"-#. Excavated areas, depths and confirmation sample locations are shown in Figure 3.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal Laboratories in Hobbs, New Mexico. The soil samples were analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method SM4500Cl-B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Based on the results of the prior assessment and remediation activities and confirmation sampling results, the previously deferred impacted heater treater area was excavated from 3 to 5 feet below existing grade. All confirmation soil samples (floor and sidewall) were below the respective RRALs and reclamation requirements for chloride, BTEX, and TPH. The results of the February 2022 confirmation sampling events are summarized in Table 1.

All the excavated material was transported offsite for proper disposal. Approximately 545 cubic yards of material from the former heater treater release area and other pad areas were transported to the R360

Closure Report September 16, 2022

facility in Hobbs, New Mexico. Photographs from the excavated areas prior to backfill are provided in Appendix F. Once confirmation sampling activities were completed and associated analytical results were below the RRALs, the excavated areas were backfilled with clean material to surface grade. Copies of the waste manifests are included in Appendix G.

#### SITE RECLAMATION AND RESTORATION

Final pad reclamation activities were conducted at the Site from April 11-29, 2022 in coordination with the MLSCO. Approximately 1,989 CY of clean topsoil were brought in to grade the former pad site to conform to the surrounding landform, while controlling erosion. After the Site was backfilled and graded, it was seeded to establish vegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. Photographic documentation of the reclamation activities and final landform are presented in Appendix F.

#### CONCLUSION

The well is plugged, and the facility is abandoned. The former heater treater release area and other pad areas identified in the October 2021 assessment were remediated following NMOCD guidelines and the former pad was reclaimed in coordination with the MLSCO in April, 2022.

NMOCD has previously granted closure for the remediation which occurred in 2018 for nOY1733235874/1RP-4883. The remaining impacts identified for deferral at that time were to be addressed at time of abandonment, retrofit, or inactivity. However, incident 1RP-4883 is still open due to the area deferred for remediation. This closure report details the final remediation of the deferred release site (former heater treater area) and the results of the confirmation sampling.

ConocoPhillips respectfully requests closure of this release based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities performed at the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Samantha Abbott, P.G. Project Manager

cc: Mr. Ike Tavarez, RMR - ConocoPhillips

Christian M. Llull, P.G. Program Manager

Closure Report September 16, 2022

ConocoPhillips

#### LIST OF ATTACHMENTS

#### Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Remediation Extent and Confirmation Sampling Map – Deferred Heater Treater Release Area

#### Tables:

Table 1 – Summary of Analytical Results – Site Remediation

#### Appendices:

Appendix A – C-141 Forms

Appendix B – Closure Request (September 2018)

Appendix C – Site Characterization Data

Appendix D – Regulatory Correspondence

Appendix E – Laboratory Analytical Data

Appendix F – Photographic Documentation

Appendix G – Waste Manifests

# FIGURES

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# TABLES

	Total TPH	(GRO+DRO+EXT DRO)	Q mg/kg		25.5	113	DN	QN	120	QN	DN	QN	QN				
	EXT DRO	> C <sub>28</sub> - C <sub>36</sub>	mg/kg 0		< 10.0	15.3	< 10.0	< 10.0	10.7	< 10.0	< 10.0	< 10.0	< 10.0				
TPH <sup>3</sup>			ď		×		v	Ě		v	-	Ľ	~				
	DRO	> C <sub>10</sub> - C <sub>28</sub>	mg/kg		25.5	97.9	< 10.0	< 10.0	109	< 10.0	< 10.0	< 10.0	< 10.0				
		10	σ														
	GRO	C <sub>6</sub> - C <sub>10</sub>	mg/kg		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0				
	TEV	5	σ														
	Totol BTEV		mg/kg		< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300				
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	Luv Luter	i otali Aylenes	mg/kg	MENT AREA	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150		nation Requi	,s	
	040	2	σ	ER DEFER											or Reclan	ation floor	
BTEX <sup>2</sup>	Ethidhonzono	Eunyiden	mg/kg	FORMER HEATER TREATER DEFERMENT AREA	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.	Gold highlight represents soil horizons that were removed during deepening of excavation floors.	
	-	P	σ	FORMER H											Remediatic	ring deepe	
	Tollior	I Oluene	mg/kg		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		of proposed H	e removed du	
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	Bonzo	Deuzene	mg/kg		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		es indicate ex	s soil horizon	
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	Chloride <sup>1</sup>		mg/kg		528	704	32.0	336	576	64.0	352	112	64.0		Bold and itali	Gold highlight	
	Sample Depth		ft. bgs		m	ĸ	5					'					
	Ctor Clames	Sample Date			2/23/2022	2/23/2022	2/25/2022	2/23/2022	2/23/2022	2/25/2022	2/23/2022	2/23/2022	2/25/2022			rface	
	Clamp2	Sample ID			FS-A-1	FS-A-2	FS-A-2 (5')*	NSW-A-1	ESW-A-1	ESW-A-1 (3')*	SSW-A-1	WSW-A-1	WSW-A-2	NOTES:	ft. Feet	bgs Below ground surface	

QUALIFIERS:

Method SM4500Cl-B

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Gasoline range organics Diesel range organics

GRO DRO

Method 8021B

Method 8015M Nondetect ND w N

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# APPENDIX A C-141 Forms

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1025 N. French Dr., Hoods, NM 88240		New Mex					Form C-141
811 S. First St., Artesia, NM 88210			I Resources				Revised April 3, 2017
1000 KIO Brazos Koad, Aziec, NM 8/410		rvation Di <sup>.</sup> h St. Franc		Subi	nit I Copy ac	to appropri- cordance wi	ate District Office in the 19.15.29 NMAC
110 S. St. Econolo De, Soute En NIM 97505		e, NM 875					
Release Notifi				ction			
		OPERA'			🛛 Initi	al Report	Final Report
Name of Company: COG Operating, LLC (OGRID# 229	9137)		bert McNeill				
Address: 600 West Illinois Avenue, Midland TX 79701 Facility Name: Phillips State #001			No.: 432-683-74				
			e: Tank Batter	ry			
Surface Owner: State Mineral	Owner:	State			API No	: 30-025-3	0956
		N OF RE		<u> </u>			
Unit LetterSectionTownshipRangeFeet from theO1721S35E990	North	South Line South	Feet from the 1980	1	/est Line last	County	Lea
Latitude: 32.474494	49 Lon	gitude: -103	.3875351	NAD83		·	_
		OF REL					
Type of Release: Oil and Produced Water		Volume of	Release:			Recovered:	
Source of Release: Heater Treater			& 13bbls PW lour of Occurrence	۰ <u>۵</u> ۰		& Obbls PW Hour of Dise	
		11/26/2017				7 9:00am	covery.
Was Immediate Notice Given?		If YES, To	Whom?		1. a mar		·
Yes 🛛 No 🖾 Not R	equired						
By Whom? Was a Watercourse Reached?		Date and H	lour: olume Impacting (	the Water	COURSe		
🗋 Yes 🛛 No			anne mibaenne i		eourse.		
Describe Cause of Problem and Remedial Action Taken.*			Olivia Yu			, Nov 2	8, 2017
The heater treater developed a hole in the bottom of the vessel. The	he vesse	l will be evalu	ated for repair or	replacen	nent.		
Describe Area Affected and Cleanup Action Taken.*							8
The release remained inside of the unlined earthen berms surroun from the release and we will present a remediation work plan to the second seco	ding the he NMC	heater treater CD for appro	Concho will hav val prior to any si	ve the spi ignificant	ll area eva remediati	luated for an on activities	y possible impact
I hereby certify that the information given above is true and comp regulations all operators are required to report and/or file certain a public health or the environment. The acceptance of a C-141 repo- should their operations have failed to adequately investigate and r or the environment. In addition, NMOCD acceptance of a C-141 federal, state, or local laws and/or regulations.	release n ort by th remediat	otifications ar e NMOCD ma e contaminati	nd perform correct arked as "Final Ro on that pose a three	tive actio eport" do eat to gro	ons for rele es not reli und water	ases which i eve the opera , surface wat	may endanger ator of liability ter, human health
			OIL CON	SERV	ATION	DIVISIO	N
Signature: Shelden Jein	_				201		
Printed Name: Sheldon L. Hitchcock		Approved by	Environmental S	pecialist:	τJ		
Title: HSE Coordinator		Approval Dat	11/28/20	17 <sub>F</sub>	xpiration I	Date:	
-mail Address: slhitchcock@concho.com		Conditions of	-				
Date: 11/27/2017 Phone: 575-746-20			ched directi	ve		Attached	
ttach Additional Sheets If Necessary							
A.2		1RP-488	3 nOY	17332	35874		
			ΓΩ	(1733)	236190		
			IPO I	11002	_00100		

#### Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_11/27/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4883\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_12/28/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Received by OCD: 9/16/2022 1:46:10 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 16 of 2	<i>U4</i>
Incident ID	nOY1733235874	
District RP	1RP-4883	
Facility ID		
Application ID		

#### 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?	<u>126</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗸 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
   Field data
- $\mathbf{\overline{V}}$  Data table of soil contaminant concentration data
- $\checkmark$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
  - **Z** 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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Page 3

Received by OCD: 9/16/20	22 1:46:10 PM State of New Mexico			Page 17 of 20
			Incident ID	nOY1733235874
Page 4	Oil Conservation Division	on	District RP	1RP-4883
			Facility ID	
			Application ID	
public health or the environ failed to adequately investig	> 5	he OCD does not relieve the threat to groundwater, surfur of responsibility for comparison of responsibility for comparison of the thread of t	ne operator of liability sl face water, human healtl pliance with any other fo nager, Remediation	hould their operations have n or the environment. In
OCD Only Received by: Jocelyn	Harimon	Date:(	09/16/2022	

Page 6

Oil Conservation Division

Incident ID	nOY1733235874
District RP	1RP-4883
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) **Description of remediation activities** I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Ike Tavarez \_\_\_\_\_ Title: Program Manager, Remediation Signature: \_\_\_\_\_\_ Date: 5/31/2022 email: lke.Tavarez@conocophillips.com Telephone: 432-701-8630 **OCD Only** Received by: Jocelyn Harimon Date: 09/16/2022 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:*Brittany Hall*Date:9/19/2022Printed Name:Brittany HallTitle:Environme Title: Environmental Specialist

# APPENDIX B Closure Request (September 2018)



NMOCD grants closure to the remediated area for 1RP-4883 and deferral for the identified section to be addressed at time of abandonment, retrofit, or inactivity.

# REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

COG Operating, LLC Phillips State #001 Lea County, New Mexico Unit Letter "O", Section 17, Township 21 South, Range 35 East Latitude 32.4744949° North, Longitude 103.3875351° West NMOCD Reference No. 1RP-4883

Prepared For:

**COG Operating, LLC** 600 W Illinois Avenue Midland, Texas 79701

Prepared By:

#### **TRC Environmental Corporation** 10 Desta Drive, Suite 150E

Midland, Texas 79705

September 2018

Joel Lowry Senior Project Manager

not I Stanley

Curt Stanley Senior Project Manager

#### **TABLE OF CONTENTS**

INTRODUCTION & BACKGROUND INFORMATION	1
INITIAL INVESTIGATION AND PROPOSED REMEDIATION WORKPLAN	l
SUMMARY OF SOIL REMEDIATION ACTIVITIES	3
SITE CLOSURE REQUEST	4
LIMITATIONS	4
DISTRIBUTION	5

#### FIGURES

Figure 1 – Site Location Map Figure 2 – Site & Sample Location Map

#### TABLES

Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil

#### **APPENDICES**

Appendix A – Laboratory Analytical Reports

Appendix B – Photographs

Appendix C – Release Notification and Corrective Action (Form C-141)

#### **INTRODUCTION & BACKGROUND INFORMATION**

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Risk-Based Soil Closure Request* for the Site known as Phillips State #001. The legal description of the Site is Unit Letter "O", Section 17, Township 21 South, Range 35 East, in Lea County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the site are N 32.4744949° W 103.3875351°. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site & Sample Location Map.

On November 26, 2017, COG discovered a release had occurred at the Phillips State #001. The release was attributed to the heater treater developing a hole in the bottom if the vessel, resulting in the release of approximately thirteen (13) barrels (bbls) of produced water and three (3) bbls of crude oil, with no recovery. The release affected an area within the earthen containment measuring approximately four hundred (400) square feet (sq. ft.) Upon discovering the release, the NMOCD and NMSLO were notified. A copy of the Form C-141 is provided in Appendix C.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 17, Township 21 South, Range 35 East. A reference map utilized by the NMOCD Carlsbad District Office indicated groundwater should be encountered at approximately seventy-five (75) feet below ground surface (bgs.). Based on the NMOCD site classification system, ten (10) points will be assigned to the subject area ranking as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

The NMOCD guidelines indicate the Phillips State #001 Release Site has a ranking score of ten (10). Recommended Remediation Action Levels (RRAL) for a site with a ranking score of ten (10) points are as follows:

- Benzene 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) 1,000 mg/kg
- Chloride 600 mg/kg

#### INITIAL INVESTIGATION AND PROPOSED REMEDIATION WORKPLAN

On December 21, 2017, TRC conducted an initial investigation at the Release Site. During the initial investigation, a hand-augured soil bore (SP #1) was advanced within the release margins in an effort to determine the vertical extent of soil impacts. During the advancement of the soil bore an impenetrable rock layer was encountered at approximately the (10) inches bgs. One (1) soil

sample (SP #1 @ 10"-R) was collected and submitted to Xenco Laboratories in Lubbock, Texas for determination of TPH, BTEX, and chloride utilizing Method SW 846-8015M, Method SW 846-8021B, and Method 300/300.1. Laboratory analytical results indicated a TPH concentration of 5,337 mg/kg, a BTEX concentration of 56.03 mg/kg, and a chloride concentration of 1,520 mg/kg. TPH, BTEX, and chloride concentrations were above NMOCD Recommended Remediation Action Levels (RRAL). Collection of additional soil samples from deeper intervals was precluded due to presence of an impenetrable rock layer.

In addition, TRC collected four (4) soil samples (North @ 6", South @ 6", East @ 6" and West @ 6") from the edges of the inferred release margins and submitted them to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD RRAL in each of the submitted soil samples with the exception of soil sample North @ 6", which exhibited a TPH concentration of 1.435 mg/kg and chloride concentration of 687 mg/kg. Soil sample locations are depicted in Figure 2 – Site and Sample Location Map. Laboratory analytical results are summarized in Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil. Laboratory analytical reports are provided in Appendix A.

On February 7, 2018, COG submitted a *Soil Investigation Summary and Proposed Remediation Workplan (Workplan)* to the NMOCD and NMSLO, proposing the following remediation activities designed to advance the site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the release margins to a depth of greater than ten (10) inches (in.) bgs., or until field test results indicate impacted soil affected above NMOCD RRAL has been removed.
- Advance the sidewall of the excavation in the area characterized by soil sample North @ 6" until field test indicates impacted soil affected above the NMOCD RRAL has been removed.
- Affected soil adjacent to and/or beneath active oil and gas equipment impacted above the NMOCD RRAL will be excavated to the maximum extent practicable, as necessary, in an effort to mitigate risks to human health and property.
- Upon excavating impacted soil from within the release margins, confirmation soil samples will be collected from the floor and sidewalls of the excavated area at approximately fifty (50) ft. increments and submitted to the laboratory for analysis of TPH, BTEX and chloride.
- Temporarily stockpile excavated soil on-site, atop an impermeable liner, pending final disposition at an NMOCD-approved disposal facility.
- Upon receiving laboratory analytical results from confirmation soil samples, transport impacted soil to an NMOCD-approved disposal facility and backfill the excavated area with locally sourced, non-impacted "like" material.
- Upon completion of remediation activities and receipt of laboratory analytical results from confirmation soil samples, TRC will prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and NMSLO detailing remediation activities and laboratory analytical results from confirmation soil samples.

The *Workplan* was subsequently approved. Please reference the *Soil Investigation Summary and Proposed Remediation Workplan*, dated January 23, 2018, for additional details regarding the initial soil investigation.

#### SUMMARY OF SOIL REMEDIATION ACTIVITIES

On March 8, 2018, remediation activities commenced at the Release Site. As per the approved *Workplan*, impacted soil was excavated and stockpiled on-site, atop an impermeable liner, pending final disposition. During the excavation of impacted soil, a resilient rock layer was encountered at depths ranging from ten (10) inches (in.) to three (3) ft. bgs. Additional excavation was precluded due to safety concerns associated with attempting to break the rock in close proximity to the active production equipment.

On March 30, 2018, TRC collected six (6) soil samples (FL-1, FL-2, NSW, SSW, ESW and WSW) from the floor and sidewalls of the excavated area and submitted the soil samples to an NMOCD-approved laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from 43.3 mg/kg in soil sample WSW to 2,933.4 mg/kg in soil sample FL-1. Soil samples FL-1 and FL-2 were also analyzed for concentrations of chloride, which were determined to be 1,260 mg/kg and 968 mg/kg, respectively. Chloride field test results suggested concentrations of chloride in sidewall soil samples exceeded the NMOCD RRAL.

On April 26 and 27, 2018, TRC revisited the Release Site with a backhoe equipped with a different set of "rock teeth". Excavation sidewalls were advanced until chloride field test results indicated concentrations of chloride were below the NMOCD RRAL. Attempts to advance the floor of the excavation resulted in broken backhoe teeth and risked destabilizing the heater treater. Upon advancing the excavation sidewalls, four (4) soil samples (NSWb, ESWb, SSWb and WSWb) were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations range from 121 mg/kg in soil sample NSWb to 524 mg/kg in soil sample WSWb. Soil sample ESWb was also analyzed for concentrations of TPH, which were determined to be 3,890 mg/kg.

On May 29, 2018, the backhoe was remobilized to the Release Site. The excavation sidewall was advanced in the area represented by soil sample ESWb and additional attempts were made to advance the floor of the excavation. Upon excavating impacted soil from the area represented by soil sample ESWb, one (1) soil sample (ESW\*) was collected and submitted to the laboratory for analysis of TPH and chloride. Laboratory analytical results indicated soil sample ESW\* exhibited a TPH concentration of less than the applicable laboratory reporting limit and a chloride concentration of 145 mg/kg.

On June 26, 2018, TRC submitted a *Remediation Summary and Permission to Backfill Request* to the NMOCD and NMSLO summarizing remediation activities conducted to date and requesting permission to backfill the excavated area. Upon review of the *Remediation Summary and Permission to Backfill Request* it was determined the further delineation in the areas characterized by soil samples FL-1 and FL-2 would be required.

On July 25, 2018, TRC revisited the Release Site with a backhoe equipped with a "hammerhoe" attachment. During the site visit, two (2) soil samples (SP #1b @ 2' and SP #2b @ 3.5') were collected and submitted to the laboratory for analysis of TPH and chloride. Soil sample SP #1 @ 2' was collected from the area characterized by soil sample FL-1. Laboratory analytical results indicated soil sample SP #1b @ 2' exhibited a TPH concentration of 175 mg/kg and chloride concentration of 212 mg/kg.

Soil sample SP #2b @ 3.5' was collected from the area characterized by soil sample FL-2. Laboratory analytical results indicated soil sample SP #2b @ 3.5' exhibited a TPH concentration of 112 mg/kg and chloride concentration of 181 mg/kg.

On August 7, 2018, TRC submitted an *Amended Remediation Summary and Permission to Backfill Request* to the NMOCD and NMSLO summarizing remediation activities conducted to date and laboratory analytical results from delineation soil samples. The permission to backfill request was subsequently approved.

On August 30, 2018, the excavation was backfilled with locally sourced, non-impacted, like material and contoured to meet the needs of the facility. The final dimensions of the excavated area were approximately forty-five (45) ft. in length, thirty-five (35) ft. in width and one (1) to three (3) ft. in depth. On August 1 and 2, 2018, approximately one hundred twenty (120) cubic yards of impacted soil was transported to R360 Halfway facility.

#### SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with the NMOCD. Impacted soil within the release margins was excavated and transported to an NMOCD-approved disposal facility. Impacted soil remaining in-situ in the floor of the excavated area and adjacent to the heater treater affected above the NMOCD RRAL for TPH and chloride will be further investigated and/or remediated at time of abandonment (TOA). Based on laboratory analytical results and field activities conducted to date, TRC recommends COG provide copies of this *Remediation Summary and Risk-Based Soil Closure Request* to the NMOCD and BLM and request closure status to the Phillips State #001.

#### LIMITATIONS

TRC has prepared this *Remediation Summary and Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

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#### DISTRIBUTION

Copy 1:	Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210
Copy 2:	Ryan Mann Hobbs Field Office 2827 N. Dal Paso, Suite 117 Hobbs, New Mexico 88240
Copy 3:	Rebecca Haskell COG Operating, LLC 600 W. Illinois Avenue Midland, Texas 79701
Copy4:	TRC Environmental Corporation 10 Desta Drive, Suite 150E Midland, Texas 79705





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# CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

# COG OPERATING, LLC PHILLIPS STATE #001 LEA COUNTY, NEW MEXICO

						METHO	METHODS: SW 846-8021b	\$02.1h				METHOR	METHOD: SW 8015M		METHOD E300
SAMPLE LOCATION	SAMPLE DATE	SUTATUS	SAMPLE DEPTH	BENZENE	NE TOLUENE	ETHYL- BENZENE	m, p - XYLENE S	0 -	TOTAL XYLENE S	TOTAL BTEX	TPH GRO C <sub>6</sub> -C <sub>10</sub>	TPH DRO TPH ORO C <sub>&gt;10</sub> -C <sub>28</sub> C <sub>28</sub> -C <sub>36</sub>	TPH ORO C28-C35	TOTAL TPH C <sub>6</sub> -C <sub>28</sub>	CHLORIDE
SP #1 @ 10"-R	12/21/2017	Excavated	10"	<0.0998	5.26	2.77	31.3	16.7	48	56.03	1,010	3,900	427	5,337	1,520
North @ 6"	12/21/2017	Excavated	.9	0.176	0.353	0.107	0.100	0.0337	0.1337	0.7697	10.8	982	442	1,435	687
East @ 6"	12/21/2017	In-Situ	.9	<0.00100	< 0.00100	<0.00100	<0.00200	< 0.00100	<0.001	<0.001	<4.95	<14.9	<14.9	<14.9	81.8
South @ 6"	12/21/2017	In-Situ	.9	0.00259	0.00238	<0.00100	< 0.00201	0.00165	0.00165	0.00662	<4.96	16.0	<14.9	16.0	77.0
West @ 6"	12/21/2017	In-Situ	6"	<0.0248	0.157	0.0285	0.0894	0.0399	0.01293	0.3148	<4.95	15.9	<14.9	15.9	48.9
FL-1	3/30/2018	In-Situ	1.	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	<15.0	2,870	63.4	2,933.4	1,260
FL-2	3/30/2018	In-Situ	٤،	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00202	<0.00202	<15.0	1,080	45.6	1,125.6	896
NSW	3/30/2018	Excavated	9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.002	<0.002	<14.9	64.3	<14.9	64.3	-
SSW	3/30/2018	Excavated	9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	20.5	673	6'66	793.4	-
ESW	3/30/2018	Excavated	.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.002	<0.002	36.8	2,130	336	2,502.8	
WSW	3/30/2018	Excavated	.9	<0.00202	<0.00202	<0.00202	< 0.00403	<0.00202	<0.00202	<0.00202	<15.0	43.3	<15.0	43.3	
NSWb	4/26/2018	In-Situ	١,				-	-							121
ESWb	4/26/2018	Excavated	1,				-	-			119	3,740	31.9	3,890.9	450
SSWb	4/27/2018	In-Situ	,1				-								422
WSWb	4/27/2018	In-Situ	1,		-			-		-	-	-	•	-	524
ESW*	5/29/2018	In-Situ	1'								<15.0	<15.0	<15.0	<15	145
SP#1b @ 2'	7/25/2018	In-Situ	2'							•	<15.0	175	<15.0	175	212
SP #2b @ 3.5'	7/25/2018	In-Situ	3.5'		-					•	<15.0	112	<15.0	112	181
NMOCD Recommended Remediation Action Level	od Remediation Act	tion Level		10	ı	ı	I	I	I	50	·	·		1,000	009
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# Analytical Report 572225

for TRC Solutions, Inc

Project Manager: Joel Lowry

Phillips State #001

#### 15-JAN-18

Collected By: Client



#### 6701 Aberdeen, Suite 9 Lubbock, TX 79424

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

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

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Received by OCD: 9/16/2022 1:46:10 PM





15-JAN-18

Project Manager: Joel Lowry **TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 572225 Phillips State #001 Project Address: Lea Co. NM

#### Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 572225. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 572225 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns Boah

**Kelsey Brooks Project Manager** 

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

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



#### Sample Cross Reference 572225

#### TRC Solutions, Inc, Midland, TX

Phillips State #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP #1 @ 10"-R	S	12-21-17 14:25	10 In	572225-001
North @ 6"	S	12-21-17 14:50	6 In	572225-002
East @ 6"	S	12-21-17 14:55	6 In	572225-003
South @ 6"	S	12-21-17 15:00	6 In	572225-004
West @ 6"	S	12-21-17 15:05	6 In	572225-005

.



Page 33 of 204

Client Name: TRC Solutions, Inc Project Name: Phillips State #001

Project ID: Work Order Number(s): 572225 Report Date: 15-JAN-18 Date Received: 12/28/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3037445 BTEX by SW 8260B SAMPLE 572225-005 IS ROCKS. CANNOT RUN ANY LOWER DILUTION.

Batch: LBA-3037542 BTEX by SW 8260B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

XENC		Joel Lowry
	Project Id:	Contact:

Released to Imaging: 9/19/2022 9:00:49 AM

# **Certificate of Analysis Summary 57225** TRC Solutions, Inc, Midland, TX

Project Name: Phillips State #001

**Date Received in Lab:** Thu Dec-28-17 05:12 pm Report Date: 15-JAN-18

Requested         Lab It: Field It: Daptic         57225-001         57225-0039         57225-0039         57225 </th <th>Proiect Location: Lea Co NM</th> <th></th> <th></th> <th></th> <th></th> <th>Proie</th> <th>Project Manager: Kelsev Brooks</th> <th>S</th>	Proiect Location: Lea Co NM					Proie	Project Manager: Kelsev Brooks	S
								3
Industrie field the set if is 10°. It is 10°. In the field of the field		Lab Id:	57225-001	57225-002	57225-003	57225-004	57225-005	
	Analysis Domostad	Field Id:	SP #1 @ 10"-R	North @ 6"	East @ 6"	South @ 6"	West @ 6"	
	narcanhavr sistimus	Depth:	10- In	6- In	6- In	6- In	6- In	
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Sampled:	Dec-21-17 14:25	Dec-21-17 14:50	Dec-21-17 14:55	Dec-21-17 15:00	Dec-21-17 15:05	
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	SUB: TX104704215-17-23	Analyzed:	Jan-03-18 20:54	Jan-04-18 13:47	Jan-03-18 19:51	Jan-03-18 20:07	Jan-03-18 20:22	
		Units/RL:						
	Benzene							
	Toluene							
	Ethylbenzene							
	m,p-Xylenes							
nes $48$ 0.0938         0.1337         0.025 $< < 0.001$ 0.00165         0.001         0.1293           X $56.03$ 0.0998         0.7697         0.025 $< < 0.001$ 0.0065         0.001         0.0145         0.01         0.0145           VB: TX104704215-17-23         Extracted:         Jan-03-1814:00         Jan-04-1800:55         Jan-04-1800:55         Jan-04-1800:55         Jan-04-1800:55         Jan-04-1800:55         Jan-04-1800:55         Jan-04-1800:55         Jan-03-1810:0         Jan-03-1810:0         Jan-04-1800:55         Jan-03-1810:0	o-Xylene							
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SUB: TX104704215-17-23       Analyzed:       Jan-03-18 23:37       Jan-03-18 23:34       Jan-04-18 00:22       Jan-04-18 00:55       Jan-04-18 00:50       Jan-04-18 00:50 <t< th=""><th>Chloride by EPA 300</th><th>Extracted:</th><th>Jan-03-18 14:00</th><th>Jan-03-18 14:00</th><th>Jan-03-18 14:00</th><th>Jan-03-18 14:00</th><th>Jan-03-18 14:00</th><th></th></t<>	Chloride by EPA 300	Extracted:	Jan-03-18 14:00					
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Interview         <		Units/RL:						
DRO-ORO By SW8015B         Extracted:         Jan-03-18 10:45         Jan-03-18 10:45         Jan-03-18 10:51         Jan-03-18 10:52         Jan-04-18 10:50         Jan-04-18 1	Chloride							
	DRO-ORO By SW8015B	Extracted:	Jan-03-18 10:42	Jan-03-18 10:45	Jan-03-18 10:48	Jan-03-18 10:51	Jan-03-18 10:54	
	SUB: TX104704215-17-23	Analyzed:	Jan-04-18 02:18	Jan-05-18 04:51	Jan-04-18 17:59	Jan-03-18 18:38	Jan-03-18 18:59	
		Units/RL:						
Hydrocarbons (ORO)       427       14.9       442       14.9       < 14.9	Diesel Range Organics (DRO)							
H GRO by EPA 8015 Mod.         Extracted:         Jan-04-18 15:00         Jan-04-18 10:00         Jan-04-1	Oil Range Hydrocarbons (ORO)							
SUB: TX104704215-17-23     Analyzed:     Jan-04-18 16:29     Jan-04-18 11:44     Jan-04-18 12:16     Jan-04-18 12:50     Jan-04-18 13:2       Units/RL:     mg/kg     RL     mg/kg     RL     mg/kg     RL     mg/kg     RL     mg/kg       1010     99.8     10.8     4.95     <4.95     <4.96     4.96     <4.95	TPH GRO by EPA 8015 Mod.	Extracted:	Jan-04-18 15:00	Jan-04-18 10:00	Jan-04-18 10:00	Jan-04-18 10:00	Jan-04-18 10:00	
Umits/RL:         mg/kg         RL         mg/kg	SUB: TX104704215-17-23	Analyzed:	Jan-04-18 16:29	Jan-04-18 11:44	Jan-04-18 12:16	Jan-04-18 12:50	Jan-04-18 13:23	
1010 99.8 10.8 4.95 <4.95 4.96 <4.96 <4.95 <4.96		Units/RL:						
	TPH-GRO		0					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgement of XENCO Laboratories. XENCO Laboratories assumes to responsibility and makes to warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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# **Flagging Criteria**

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

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2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



## Form 2 - Surrogate Recoveries

Project Name: Phillips State #001

	rders: 57222 #: 3037397	5, Sample: 572225-004 / SMP	Bate	Project ID: h: 1 Matrix			
Units:	mg/kg	<b>Date Analyzed:</b> 01/03/18 18:38	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-O	ORO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	•	72.4	99.4	73	70-135	
o-Terpheny	rl		35.7	49.7	72	70-135	
Lab Batch	#: 3037397	Sample: 572225-005 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	<b>Date Analyzed:</b> 01/03/18 18:59	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-O	ORO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	Anarytes	74.6	99.0	75	70-135	
o-Terpheny			38.5	49.5	73	70-135	
1 5	#: 3037445	Sample: 572225-003 / SMP	Batc			/0-155	
Units:	mg/kg	Date Analyzed: 01/03/18 19:51		RROGATE R		STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0512	0.0500	102	74-126	
	oethane-D4		0.0464	0.0500	93	80-120	
Toluene-D8	8		0.0532	0.0500	106	73-132	
Lab Batch	#: 3037445	Sample: 572225-004 / SMP	Batc	h: 1 Matrix	: Soil	1	<u> </u>
U <b>nits:</b>	mg/kg	Date Analyzed: 01/03/18 20:07	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0512	0.0500	102	74-126	
1,2-Dichlor	roethane-D4		0.0469	0.0500	94	80-120	
Toluene-D8	8		0.0521	0.0500	104	73-132	

\* Surrogate outside of Laboratory QC limits

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

All results are based on MDL and validated for QC purposes.


	<b>: ders :</b> 57222 #: 3037445	Sample: 572225-005 / SMP	Batch	Project II n: 1 Matri	x: Soil		
U <b>nits:</b>	mg/kg	Date Analyzed: 01/03/18 20:22	SU	RROGATE	RECOVERY	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Dibromoflu	oromethane		0.0553	0.0500	111	74-126	
1,2-Dichlor	oethane-D4		0.0477	0.0500	95	80-120	
Toluene-D8	3		0.0499	0.0500	100	73-132	
Lab Batch	#: 3037445	Sample: 572225-001 / SMP	Batch	n: 1 Matri	x: Soil		
Units:	mg/kg	Date Analyzed: 01/03/18 20:54	SU	RROGATE	RECOVERYS	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Dibromoflu			0.0510	0.0500	102	74-126	
1,2-Dichlor			0.0504	0.0500	101	80-120	
Toluene-D8			0.0498	0.0500	100	73-132	
	#: 3037397	Sample: 572225-001 / SMP	Batch	n: 1 Matri	x: Soil		
Units:	mg/kg	<b>Date Analyzed:</b> 01/04/18 02:18	SU	<b>RROGATE</b>	RECOVERY	STUDY	
	DRO-O	RO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		104	99.1	105	70-135	
o-Terpheny			43.7	49.6	88	70-135	
Lab Batch	#: 3037523	Sample: 572225-002 / SMP	Batch	n: 1 Matri	x: Soil		
Units:	mg/kg	Date Analyzed: 01/04/18 11:44	SU	<b>RROGATE</b>	RECOVERYS	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflu	orobenzene		0.0269	0.0300	90	80-120	
Lab Batch	#: 3037523	Sample: 572225-003 / SMP	Batch	n: 1 Matri	x: Soil		
Units:	mg/kg	Date Analyzed: 01/04/18 12:16	SU	RROGATE	RECOVERY	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4 Bromoflu	orobenzene		0.0277	0.0300	92	80-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Phillips State #001

	r <b>ders :</b> 57222 #: 3037523	5, Sample: 572225-004 / SMP	Batch	Project ID : 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/04/18 12:50	SU	RROGATE R	RECOVERY	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4 Due une flu	orobenzene	Analytes	0.0202	0.0200		00.100	
	#: 3037523	Sample: 572225-005 / SMP	0.0292 Batch	0.0300	97 	80-120	
Lab Batch		•				~~~~~	
Units:	mg/kg	Date Analyzed: 01/04/18 13:23	SU	RROGATE R	RECOVERYS	STUDY	
	TPH GRO	) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4 Promofi	orobenzene	Anarytes	0.0273	0.0300	91	80-120	
	#: 3037542	Sample: 572225-002 / SMP	Batch			80-120	
Units:	mg/kg	<b>Date Analyzed:</b> 01/04/18 13:47					
Units.	mg/kg	Date Analyzeu. 01/04/18 13.47	SU	RROGATE R	RECOVERY	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Dibromoflu	oromethane		0.0558	0.0500	112	74-126	
1,2-Dichlor	oethane-D4		0.0554	0.0500	111	80-120	
Toluene-D8	3		0.0431	0.0500	86	73-132	
Lab Batch	#: 3037523	Sample: 572225-001 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 01/04/18 16:29	SU	RROGATE R	RECOVERY	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflu	orobenzene		0.0295	0.0300	98	80-120	
Lab Batch	#: 3037397	Sample: 572225-003 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 01/04/18 17:59	SU	RROGATE R	RECOVERY	STUDY	
	DRO-O	ORO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		70.1	99.6	70	70-135	
o-Terpheny							
0-1 erpneny	1		35.1	49.8	70	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Phillips State #001

		Batc	•			
mg/kg	<b>Date Analyzed:</b> 01/05/18 04:51				STUDY	
DRO-O	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
tane		70.7	99.2	71	70-135	
rl		35.3	49.6	71	70-135	
#: 3037397	Sample: 7636876-1-BLK / E	BLK Bate	h: 1 Matrix	: Solid		
mg/kg	<b>Date Analyzed:</b> 01/03/18 11:56	SU	RROGATE R	ECOVERY	STUDY	
DRO-O	·	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
tane		99.2	100	99	70-135	
ıl		56.7	50.0	113	70-135	
#: 3037445	Sample: 7636978-1-BLK / E	BLK Bate	h: 1 Matrix	: Solid		
mg/kg	Date Analyzed: 01/03/18 18:33	SU	RROGATE R	ECOVERYS	STUDY	
BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	[**]		[D]	701	
oromethane	-	0.0489	0.0500	98	74-126	
oethane-D4		0.0467	0.0500	93	80-120	
3		0.0558	0.0500	112	73-132	
#: 3037523	Sample: 7637012-1-BLK / E	BLK Bate	h: 1 Matrix	: Solid	1	
mg/kg	<b>Date Analyzed:</b> 01/04/18 11:10	SU	RROGATE R	ECOVERYS	STUDY	
TPH GRO	·	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
orobenzene	J~	0.0290	0.0300	97	80-120	
	<pre>#: 3037397 mg/kg DRO-O tane 1 #: 3037397 mg/kg DRO-O tane 1 #: 3037445 mg/kg BTE2 toromethane toethane-D4 #: 3037523 mg/kg TPH GRO</pre>	mg/kg       Date Analyzed: 01/05/18 04:51         DRO-ORO By SW8015B         Analytes         tane         1         #: 3037397       Sample: 7636876-1-BLK / F         mg/kg       Date Analyzed: 01/03/18 11:56         DRO-ORO By SW8015B         Analytes         tane         1         #: 3037445         Sample: 7636978-1-BLK / F         mg/kg       Date Analyzed: 01/03/18 18:33         BTEX by SW 8260B         Analytes         oromethane         oethane-D4         3         #: 3037523       Sample: 7637012-1-BLK / F         mg/kg       Date Analyzed: 01/04/18 11:10         TPH GRO by EPA 8015 Mod.       Analytes	#: 3037397       Sample: 572225-002 / SMP       Batc         mg/kg       Date Analyzed: 01/05/18 04:51       SU         DRO-ORO By SW8015B       Amount Found [A]       Amount Found [A]         Analytes       70.7         tane       70.7         1       35.3         #: 3037397       Sample: 7636876-1-BLK / BLK       Batc         mg/kg       Date Analyzed: 01/03/18 11:56       SU         DRO-ORO By SW8015B       Amount Found [A]       Amount Found [A]         tane       99.2       56.7         #: 3037445       Sample: 7636978-1-BLK / BLK       Batc         mg/kg       Date Analyzed: 01/03/18 18:33       SU         BTEX by SW 8260B       Amount Found [A]       SU         BTEX by SW 8260B       Amount Found [A]       SU         Malytes       0.0489       0.0489         ocommethane       0.0467       0.0467         3       Sample: 7637012-1-BLK / BLK       Batc         mg/kg       Date Analyzed: 01/04/18 11:10       SU         mg/kg       Date Analyzed: 01/04/18 11:10       SU         TPH GRO by EPA 8015 Mod.       Amount Found [A]       Found [A]	#: 3037397       Sample: 572225-002 / SMP       Batch:       1       Matrix         mg/kg       Date Analyzed:       01/05/18 04:51       SURROGATE R         DRO-ORO By SW8015B       Amount [A]       True Amount [A]       True Amount [B]         tame       70.7       99.2         1       35.3       49.6         #: 3037397       Sample: 7636876-1-BLK / BLK       Batch:       1       Matrix         mg/kg       Date Analyzed:       01/03/18 11:56       SURROGATE R         DRO-ORO By SW8015B       Amount [A]       True Amount [A]       True Amount [B]         tane       99.2       100         4       50.0       56.7       50.0         #: 3037445       Sample: 7636978-1-BLK / BLK       Batch:       1       Matrix         mg/kg       Date Analyzed:       01/03/18 18:33       SURROGATE R         BTEX by SW 8260B       Amount [A]       True Amount [A]       True Amount [B]         ororomethane       0.0489       0.0500       0.0500         octhane-D4       0.0467       0.0500       0.0558       0.0500         wg/kg       Date Analyzed:       01/04/18 11:10       SURROGATE R         TPH GRO by EPA 8015 Mod.       Amount [A]       T	#: 3037397       Sample: 572225-002 / SMP       Batch:       1       Matrix: Soil         mg/kg       Date Analyzed: 01/05/18 04:51       SURROGATE RECOVERY 5         DRO-ORO By SW8015B       Amount [A]       True Amount [B]       Recovery %R         Analytes       70.7       99.2       71         tane       70.7       99.2       71         1       35.3       49.6       71         #: 3037397       Sample: 7636876-1-BLK / BLK       Batch:       1       Matrix: Solid         mg/kg       Date Analyzed: 01/03/18 11:56       SURROGATE RECOVERY 5         DRO-ORO By SW8015B       Amount [A]       True Amount [A]       Matrix: Solid         mg/kg       Date Analyzed: 01/03/18 11:56       SURROGATE RECOVERY 5         Matorix       Sample: 7636978-1-BLK / BLK       Batch:       1       Matrix: Solid         mg/kg       Date Analyzed: 01/03/18 18:33       SURROGATE RECOVERY 5         Mg/kg       Date Analyzed: 01/03/18 18:33       SURROGATE RECOVERY 5         BTEX by SW 8260B       Amount [A]       True Amount [A]       Recovery %R         mg/kg       Date Analyzed: 01/03/18 18:33       SURROGATE RECOVERY 5         Matrix: 3010       99       113       101         ##: 3037523	#: 3037397       Sample: 572225-002 / SMP       Bath:       1       Matrix: Soil         mg/kg       Date Analyzed: 01/05/18 04:51       SURROGATE RECOVERY STUDY         DRO-ORO By SW8015B       Amount Found [A]       True Amount [B]       Recovery %R [D]       Control Limits %R         tane       70.7       99.2       71       70-135         1       35.3       49.6       71       70-135         #: 3037397       Sample: 7636876-1-BLK / BLK       Batch:       1       Matrix: Solid         mg/kg       Date Analyzed: 01/03/18 11:50       SURROGATE RECOVERY STUDY         DRO-ORO By SW8015B       Amount [A]       True Amount [A]       Recovery %R       Control %R         tane       99.2       100       99       70-135         1       Analytes       Solo       113       70-135         1       Sample: 7636978-1-BLK / BLK       Batch:       1       Matrix: Solid         tane       99.2       100       99       70-135         1       Sample: 7636978-1-BLK / BLK       Batch:       1       Matrix: Solid         tane       99.2       100       99       70-135         1       Matrix: Solid       Matrix: Solid       Solid       Solid

\* Surrogate outside of Laboratory QC limits

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



Work Ord Lab Batch #:	ers: 57222	5, <b>Sample:</b> 7637024-1-BLK /	BLK Batch	Project ID n: 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/04/18 12:32	SU	RROGATE R	ECOVERY S	STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoro		Anarytes	0.0520	0.0500	104	74-126	
1,2-Dichloroet			0.0320	0.0500	99	80-120	
Toluene-D8	inane-D4		0.0490	0.0500	99	73-132	
Lab Batch #:	3037397	<b>Sample:</b> 7636876-1-BKS /				15 152	
Units:	mg/kg	Date Analyzed: 01/03/18 11:15		RROGATE R		STUDY	
		PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 (11)		Analytes		100			
1-Chlorooctan	e		115	100	115	70-135	
o-Terphenyl	2027445	<b>Sample:</b> 7636978-1-BKS / /	62.6 BKS Batch	50.0 1: 1 Matrix	125	70-135	
Lab Batch #: Units:	mg/kg	Date Analyzed: 01/03/18 16:25		RROGATE R	-	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Dibromofluor	omethane		0.0499	0.0500	100	74-126	
1,2-Dichloroet	thane-D4		0.0503	0.0500	101	80-120	
Toluene-D8			0.0520	0.0500	104	73-132	
Lab Batch #:	3037542	Sample: 7637024-1-BKS /	BKS Batch	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 01/04/18 10:07	SU	RROGATE R	ECOVERY S	STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
			0.0515	0.0500	103	74-126	
Dibromofluor	omethane		0.0315	0.0500	100	/ 120	
Dibromofluoro 1,2-Dichloroet			0.0494	0.0500	99	80-120	

\* Surrogate outside of Laboratory QC limits

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



Project Name: Phillips State #001

	#: 3037523	Sample: 7637012-1-BKS /					
Units:	mg/kg	Date Analyzed: 01/04/18 18:41	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromofluc	orobenzene		0.0290	0.0300	97	80-120	
Lab Batch	#: 3037397	Sample: 7636876-1-BSD /	BSD Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 01/03/18 11:36	SU	RROGATE R	ECOVERY	STUDY	
	DRO-O	RO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ane		102	100	102	70-135	
o-Terphenyl			52.9	50.0	106	70-135	
Lab Batch	#: 3037445	Sample: 7636978-1-BSD /	BSD Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 01/03/18 17:29	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Dibromofluc	oromethane		0.0521	0.0500	104	74-126	
1,2-Dichloro	oethane-D4		0.0558	0.0500	112	80-120	
Toluene-D8			0.0454	0.0500	91	73-132	
Lab Batch	#: 3037542	Sample: 7637024-1-BSD /	BSD Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 01/04/18 11:28	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluc	oromethane	-	0.0498	0.0500	100	74-126	
1,2-Dichlord	oethane-D4		0.0503	0.0500	101	80-120	
Toluene-D8			0.0520	0.0500	104	73-132	
Lab Batch	#: 3037523	Sample: 7637012-1-BSD /	BSD Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 01/04/18 19:13	SU	RROGATE R	ECOVERY	STUDY	
	TPH GRO	) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	orobenzene	v	0.0287	0.0300	96	80-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



### Form 2 - Surrogate Recoveries

	• <b>ders :</b> 57222 #: 3037445	5, <b>Sample:</b> 572221-022 S / MS	Bato	Project ID: h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/03/18 16:57		JRROGATE R		STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane	-	0.0496	0.0500	99	74-126	
1,2-Dichlor	oethane-D4		0.0500	0.0500	100	80-120	
Toluene-D8			0.0498	0.0500	100	73-132	
Lab Batch	#: 3037542	Sample: 572221-024 S / MS	Bate	h: 1 Matrix	: Soil	11	
Units:	mg/kg	Date Analyzed: 01/04/18 11:08	st	JRROGATE R	ECOVERY S	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes	0.0541	0.0500	. ,	<b>54 10 (</b>	
Dibromoflu			0.0541	0.0500	108	74-126	
,			0.0563	0.0500	113	80-120	
Toluene-D8	#: 3037523	<b>Sample:</b> 572225-005 S / MS	0.0459	0.0500 h: 1 Matrix	92 92	73-132	
Jab Batch	mg/kg	<b>Date Analyzed:</b> 01/04/18 19:47		JRROGATE R	-	TUDV	
		) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene	7 mary cc3	0.0270	0.0300	90	80-120	
	#: 3037445	<b>Sample:</b> 572221-022 SD / M				00 120	
U <b>nits:</b>	mg/kg	Date Analyzed: 01/03/18 17:13	SU	JRROGATE R	ECOVERY	STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu			0.0496	0.0500	99	74-126	
1,2-Dichlor			0.0498	0.0500	100	80-120	
Toluene-D8			0.0537	0.0500	107	73-132	

\* Surrogate outside of Laboratory QC limits

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



### Project Name: Phillips State #001

	rders : 57222 #: 3037542	5, <b>Sample:</b> 572221-024 SD / M	ASD Batcl	Project ID: n: 1 Matrix:			
Units:	mg/kg	Date Analyzed: 01/04/18 16:49	SU	RROGATE RI	ECOVERYS	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	ıoromethane	Anarytes	0.0538	0.0500	108	74-126	
1,2-Dichlo	roethane-D4		0.0576	0.0500	115	80-120	
Toluene-D	8		0.0460	0.0500	92	73-132	
Lab Batch	#: 3037523	Sample: 572225-005 SD / N	ASD Batch	n: 1 Matrix:	Soil	11	
Units:	mg/kg	Date Analyzed: 01/04/18 20:19	SU	RROGATE RI	ECOVERY	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflu	ıorobenzene		0.0266	0.0300	89	80-120	

\* Surrogate outside of Laboratory QC limits

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



### **BS / BSD Recoveries**

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	Projec	Project Name:	: Phillips State #001	State #(	01						
Work Order #: 572225							Proj	Project ID:			
Analyst: JTR	ũ	ate Prepar	Date Prepared: 01/03/2018	8			Date A	Date Analyzed: 01/03/2018	1/03/2018		
Lab Batch ID: 3037445         Sample: 7636978-1-BKS	-BKS	Batch #:	a#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	K /BLANK	SPIKE / I	<b>BLANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVE	RECOVERY STUDY	Y	
BTEX by SW 8260B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	D	[E]	Result [F]	[6]				
Benzene	<0.00100	0.100	0.0967	67	0.100	0.115	115	17	62-132	25	
Toluene	<0.00100	0.100	0.103	103	0.100	0.0967	97	6	66-124	25	
Ethylbenzene	<0.00100	0.100	0.0971	67	0.100	0.104	104	7	71-134	25	
m.p-Xylenes	<0.00200	0.200	0.199	100	0.200	0.214	107	7	69-128	25	
o-Xylene	<0.00100	0.100	0.0979	98	0.100	0.103	103	5	72-131	25	
Analyst: JTR	ã	ate Prepar	Date Prepared: 01/04/2018	18			Date A	Date Analyzed: 01/04/2018	01/04/2018		_
Lab Batch ID: 3037542         Sample: 7637024-1-BKS	-BKS	Batch #:	n#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	K /BLANK	SPIKE / I	<b>BLANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	1 1	RECOVE	RECOVERY STUDY	Y	
BTEX by SW 8260B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			2	2	<u>[</u> ]	result [r]	5				
Benzene	< 0.00100	0.100	0.102	102	0.100	0.114	114	11	62-132	25	
Toluene	<0.00100	0.100	0.0920	92	0.100	0.0987	66	7	66-124	25	

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

25 25 25

71-134

 $^{14}$ 12 15

100 102 101

0.0998

0.1000.2000.100

87 91 87

0.0871

0.100

<0.00100 <0.00200 < 0.00100

Ethylbenzene m,p-Xylenes o-Xylene

0.0869

0.1000.200

0.181

0.2040.101

72-131 69-128

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### **BS / BSD Recoveries**

### **Project Name:** Phillips State #001

							ţ				
Work Order #: 572225							Proj	Project ID:			
Analyst: DHE	ã	ate Prepar	Date Prepared: 01/03/2018	18			Date A	nalyzed: (	Date Analyzed: 01/03/2018		
Lab Batch ID: 3037378 Sample: 7636897-1-BKS	-1-BKS	Batch #:	<b>h</b> #: 1					Matrix: Solid	Solid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	SPIKE / ]	<b>BLANK</b>	SPIKE DUP		RECOVI	RECOVERY STUDY	Y	
Chloride by EPA 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[c]	a	[E]	Result [F]	[6]				
Chloride	<1.00	10.0	9.77	98	10.0	9.75	98	0	80-120	20	
Analyst: ARL	Ő	ate Prepar	<b>Date Prepared:</b> 01/03/2018	8			Date A	nalyzed: (	Date Analyzed: 01/03/2018		
Lab Batch ID: 3037397         Sample: 7636876-1-BKS	-1-BKS	Batch #:	<b>h</b> #: 1					Matrix: Solid	Solid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	SPIKE / ]	<b>BLANK</b>	SPIKE DUP		RECOVI	RECOVERY STUDY	Y	
DRO-ORO By SW8015B	Blank Sample Result	Spike Added	Blank Spike Decult	Blank Spike	Spike Added	Blank Spike Durdicato	Blk. Spk Dup. 0. D	RPD	Control Limits	Control Limits	Flag
Analytes	[v]	[B]			Ε	Duplicate Result [F]	10 [G]	<b>0</b> ⁄	70K	70 MFD	
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1000	100	1000	904	60	10	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1000	1010	101	4	70-135	35	
Analyst: JTR	ũ	Date Prepared:	ed: 01/04/2018	18			Date A	nalyzed: (	Date Analyzed: 01/04/2018		
Lab Batch ID: 3037523         Sample: 7637012-1-BKS	-1-BKS	Batch #:	<b>h</b> #: 1					Matrix: Solid	Solid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	SPIKE / ]	<b>BLANK</b>	SPIKE DUP		RECOVERY	ERY STUDY	Y	
TPH GRO by EPA 8015 Mod.	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
TPH-GRO	<5.00	25.0	20.9	84	25.0	20.1	80	4	75-135	35	

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

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## Form 3 - MS / MSD Recoveries

### Project Name: Phillips State #001

		•		(								
Work Order # :	57225						Project ID:	••				
Lab Batch ID:	3037445 Q	QC- Sample ID:	572221-022 S	022 S	Ba	Batch #:	1 Matrix:	: Soil				
Date Analyzed:	01/03/2018 I	Date Prepared:	01/03/2018	018	An	Analyst: JTR	IR					
Reporting Units:	mg/kg		Μ	ATRIX SPIKI	E / MAT	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	<b>FE RECO</b>	<b>DVERY 5</b>	STUDY		
B	BTEX by SW 8260B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	(D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	)
Benzene		<0.000998	0.0998	0.102	102	0.0996	0.0924	93	10	62-132	25	
Toluene		<0.000998	0.0998	0.102	102	0.0996	0.104	104	2	66-124	25	
Ethylbenzene		<0.000998	8660.0	0.110	110	0.0996	0.0925	93	17	71-134	25	
m,p-Xylenes		<0.00200	0.200	0.225	113	0.199	0.192	96	16	69-128	25	
o-Xylene		<0.000998	0.0998	0.109	109	0.0996	0.0932	94	16	72-131	25	
Lab Batch ID:	3037542 Q	QC- Sample ID:	572221-024 S	024 S	Ba	Batch #:	1 Matrix: Soil	: Soil				
Date Analyzed:	01/04/2018	Date Prepared:	01/04/2018	018	An	Analyst: JTR	IR					
Reporting Units:	mg/kg		Μ	ATRIX SPIKI	E / MAT	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	IE RECO	<b>OVERY 5</b>	STUDY		
B	BTEX by SW 8260B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		<0.000992	0.0992	0.125	126	0.0998	0.129	129	3	62-132	25	
Toluene		<0.000992	0.0992	0.0829	84	0.0998	0.0851	85	ю	66-124	25	
Ethylbenzene		<0.000992	0.0992	0.0911	92	0.0998	0.0951	95	4	71-134	25	
m,p-Xylenes		<0.00198	0.198	0.196	66	0.200	0.198	66	1	69-128	25	

 $\label{eq:matrix_spike} \begin{array}{l} \mbox{Matrix Spike Percent Recovery} & [D] = 100^{*}(C-A)/B \\ \mbox{Relative Percent Difference} & RPD = 200^{*}[(C-F)/(C+F)] \\ \end{array}$ 

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

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

Page 17 of 23

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66

0.0992

0.0998

66

0.0984

0.0992

<0.000992

o-Xylene

Project Name:         Project State #001           :         57225         Project D:           :         572194-01         Batch #:         1         Matrix Soil           :         01/04/2018         Date Prepared:         01/03/2018         Analyst:         Diff         Natrix Soil           :         01/04/2018         Date Prepared:         01/03/2018         Matrix Soil         Project D:           :         01/04/2018         Date Prepared:         01/03/2018         Matrix Soil         Project D:           :         01/04/2018         Date Prepared:         01/03/2018         Matrix Soil         Project D:           :         01/04/2018         Date Prepared:         01/03/2018         Matrix Soil         Project D:           :         01/03/2018         Date Prepared:         01/03/2018         Matrix Soil         Project D:           :         01/03/2018         Date Prepared:         01/03/2018         Matrix Soil         Project D:           :         01/03/2018         Date Prepared:         01/03/2018         Matrix: Soil         Project D:           :         01/03/2018         Date Prepared:         01/03/2018         Matrix: Soil         Project D:           :         01/03/2018	572255 572255 3037378 01/04/2018 mg/kg Chloride by EPA 300 Analytes 3037378 01/03/2018 mg/kg 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Project Name         QC-Sample ID: 5721         Date Prepared: 01/05         Sample         Sample         Adde         [A]         [B]         4620         482         QC-Sample ID: 5722         Date Prepared: 01/05         Date Prepared: 01/05         Date Prepared: 01/05         Date Prepared: 01/05	<ul> <li>Phillips Sta</li> <li>4-001 S</li> <li>2018</li> <li>AATRIX SPIKI</li> <li>MATRIX SPIKI</li> <li>Spiked Sample</li> <li< th=""><th>te #001 Batch # Analyst Analyst Sample Spi %R Add [D] [E [D] [E 104 48 Batch # Batch # Analyst</th><th>Project I Project I</th><th>D: ix: Soil ATE RECC Spiked [G] 98 98 ix: Soil</th><th>DVERY S RPD 1</th><th>sTUDY Control Limits %R</th><th>Control Limits %RPD</th><th>년 평 60</th></li<></ul>	te #001 Batch # Analyst Analyst Sample Spi %R Add [D] [E [D] [E 104 48 Batch # Batch # Analyst	Project I Project I	D: ix: Soil ATE RECC Spiked [G] 98 98 ix: Soil	DVERY S RPD 1	sTUDY Control Limits %R	Control Limits %RPD	년 평 60
Forgarch       Project ID:         303732       OC-Sample ID:       Strong ID:       Parceit       TATAIX SPIKE DIFFICATE RECOVERY STUDY         0.0042018       Date Prepared:       01/03/2018       Batch #:       1       Matrix:       Solid       Solid <th< th=""><th>572255 3037378 01/04/2018 mg/kg Chloride by EPA 300 Analytes 3037378 01/03/2018 mg/kg 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018</th><th>Sample ID: e Prepared: Parent Sample Result [A] 4620 4620 e Prepared: e Prepared:</th><th>4-001 S 2018 MATRIX SPIKI Spiked Sample [Spiked Sample] 5130 5130 5130 5130 5130 5130 5130 5130</th><th>Batch # Analyst Analyst Spiked Spi %R Add [D] [F [D] [F [D] 48 Batch # Batch # Analyst</th><th>Project I Project I</th><th>D: ix: Soil ATE RECC Spiked Dup. 98 98 ix: Soil</th><th>DVERY S RPD 1</th><th>STUDY Control Limits %R</th><th>Control Limits %RPD</th><th>ेत म्य</th></th<>	572255 3037378 01/04/2018 mg/kg Chloride by EPA 300 Analytes 3037378 01/03/2018 mg/kg 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Sample ID: e Prepared: Parent Sample Result [A] 4620 4620 e Prepared: e Prepared:	4-001 S 2018 MATRIX SPIKI Spiked Sample [Spiked Sample] 5130 5130 5130 5130 5130 5130 5130 5130	Batch # Analyst Analyst Spiked Spi %R Add [D] [F [D] [F [D] 48 Batch # Batch # Analyst	Project I Project I	D: ix: Soil ATE RECC Spiked Dup. 98 98 ix: Soil	DVERY S RPD 1	STUDY Control Limits %R	Control Limits %RPD	ेत म्य
	3037378 01/04/2018 mg/kg Chloride by EPA 300 Analytes 3037378 01/03/2018 mg/kg 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Sample ID: e Prepared: Parent Sample Result [A] 4620 4620 Sample ID: e Prepared:	4-001 S 2018 MATRIX SPIKI Spiked Sample Result ICJ ICJ ICJ S-002 S 5-002 S 2018 MATRIX SPIKI	Batch # Analyst Analyst Spiked Spi %R Add [D] [F 104 48 Batch # Analyst Analyst	#:     1     Matr       I:     DHE     Matr       SPIKE DUPLIC/     Duplicate       ded     Spiked Sample       diad     Result [F]       39     5100       #:     1       #:     1	ix: Soil ATE RECC Spiked [G] 98 ix: Soil	DVERY S	TUDY Control Limits %R	Control Limits %RPD	FIag
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	01/04/2018 mg/kg Chloride by EPA 300 Analytes 3037378 01/03/2018 mg/kg 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	e Prepared: Parent Sample Result [A] 4620 4620 e Prepared: e Prepared:	2018 MATRIX SPIKI Spiked Sample [Spiked Sample] [C] [C] [C] [C] [C] [C] [C] [C] [C] [C	Analyst Spiked Spiked Spiked [D] [F] [D] [F] Add %R Add [D] [F] [Add [D] [F] Add [D] [F] Add [D] [F] Add [D] [F] Add [D] [F] A	t: DHE SPIKE DUPLIC/ Spike Spiked Sample ded Result [F] 39 5100 f: DHE t: DHE	ATE RECC Spiked Dup. %R [G] 98 ix: Soil	DVERY S RPD %	TUDY Control Limits %R	Control Limits %RPD	Flag
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	mg/kg Chloride by EPA 300 Analytes 3037378 01/03/2018 mg/kg mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Parent Sample Result [A] 4620 2620 Earent Parent	MATRIX SPIKI Spiked Sample Result [C] 5-002 S 2018 MATRIX SPIKI	Spiked Spi Sample Spi %R Add [D] [F] 104 48 Batch # Analyst	SPIKE DUPLIC/       Buplicate       ike     Duplicate       ded     Result [F]       3]     5100       #:     1       #:     1	ATE RECC Spiked 0up. %R [G] 98 ix: Soil	DVERY S RPD %	TUDY Control Limits %R	Control Limits %RPD	Flag
	Chloride by EPA 300 Analytes 3037378 3037378 01/03/2018 mg/kg mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Parent Sample Result [A] 4620 Sample ID: e Prepared:	Spiked Sample       Result       Result       [C]       5130       5-002 S       2018       MATRIX SPIKI	Spiked Spi %R Add %D    E  D     E  04   48 Batch # Analyst	e Spiked S d Result 510 510 DHE		RPD %	Control Limits %R	Control Limits %RPD	Flag
AnalytesResult [A]Result [B]Result [B]Added [B]Result [F] $\%$ R	Analytes 3037378 01/03/2018 mg/kg mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Result [A] [A] 4620 Sample ID: e Prepared:	5130           5130           5-002 S           2018           MATRIX SPIKI	%R         Add           [D]         [F           104         48           Batch #         Analyst           Analyst         Analyst	d Result 510 1 DHE		- %	%R	% <b>RPD</b>	
	3037378 3037378 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	4620 Sample ID: e Prepared: Parent	5130 5-002 S 2018 MATRIX SPIKI	104 48 Batch # Analyst	510 1 DHE		-		20	
	3037378 01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018	Sample ID: e Prepared: Parent	5-002 S 2018 MATRIX SPIKI	Batch # Analyst // MATRIX	1 DHE		-	80-120		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	01/03/2018 mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018		2018 MATRIX SPIKI	Analyst //MATRIX						
mg/kgMATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDYChloride by EPA 300ParentSpiked SampleSpiked Sample3037523 </td <td>mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018</td> <td></td> <td>MATRIX SPIKI</td> <td>/ MATRIX</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	mg/kg Chloride by EPA 300 Analytes 3037523 01/04/2018		MATRIX SPIKI	/ MATRIX						
	Chloride by EPA 300 Analytes 3037523 01/04/2018				SPIKE DUPLICA	ATE RECC	<b>DVERY S</b>	TUDY		
AnalytesKesult [a]Added [b][c]%.8Added [c]Result [F]%.8%.6%.6%.6 $3037523$ $687$ $489$ $1180$ $101$ $489$ $1180$ $101$ $0$ $80-120$ $3037523$ $01/04/2018$ $ate Prepared:$ $01/04/2018$ $Analyst:$ $1$ $Atrix:$ $Soil01/04/2018Date Prepared:01/04/2018Analyst:1Matrix:Soil01/04/2018Date Prepared:01/04/2018Analyst:1Matrix:Soilmg/kgMatrixBatch #:1Matrix:Soil00MatrixBatch #:1Matrix:Soil000MatrixBatch #:1Matrix:Soil000MatrixBatch #:1Matrix:Soil000MatrixMatrixMatrixMatrix:Matrix:000MatrixMatrixMatrixMatrix:Matrix:Matrix:Matrix:Matrix:MatrixMatrixMatrixMatrixMatrixMatrix:Matrix:Matrix:Matrix:MatrixMatrixMatrixMatrixMatrixMatrix:Matrix:Matrix:Matrix:Matrix:MatrixMatrixMatrixMatrixMatrix:Matrix:Matrix:Matrix:Mat$	Analytes 3037523 01/04/2018						RPD	Control Limits	Control Limits	Flag
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	3037523 01/04/2018					/s [G]	%	%R	%RPD	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	3037523 01/04/2018		1180			101	0	80-120	20	
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		e Prepared:	/2018	Analyst	t: JTR					
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Matrix Spike Percent Recovery  $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD =  $200^{*}(C-F)/(C+F)|$ 

.

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

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

Form 3 - MS / MSD Recoveries

Page 18 of 23

Final 1.001

CARGEACONICS CARGERATORIES etting the Standard since 1990

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Relippuished by Date Times Received Bast 1 June Town Factor Preserved where applicable On Ice Cooler Tamp. Therma. Corr. Factor 7 June Corr. Facto	Relinquished by       Date-Time:       Raceived 64::       Context Seat #       Dreserved where applicable       On Ice       Cooler Tamp.       Thoma. Corr. Factor Tamp.         Relinquished by       Difference       Differee       Difference       Di	Relinduished by:		A Rec	eived By.	X			Rel	nquishe	d By:			Dat	Time:		Received	By:				1 of
	Notice Mode: Significative of this focument and relimpuishment of samples on structures as valid purchase order fidant client. Company to Xenoo, its attilides and subformations, it assigns standard tennes, and conditions of samples and shall not assume apyresponsibility for any to the cost of samples and shall not assume apyresponsibility for any to service. Xenoo will be lable only for the cost of samples and shall not assume apyresponsibility for any to service. Xenoo will be lable only for the cost of samples and shall not assume apyresponsibility for any to service. Xenoo will be lable only for the cost of samples and shall not assume apyresponsibility for any to service. Xenoo will be lable only for the cost of samples and shall not assume apyresponsibility for any to service. Xenoo service is a standard tenne apyres of \$75 will be applied to each project. Xenoo's lability will be lipited to the cost has a service. Xenoo service is a standard tenne apyresponsibility for any to choose or expenses incurred by the Client for the cost of samples. These terms will be invited at \$5 per sample. These terms will be invited at \$5 per sample.	Rajhrquished by: Date	S. U.	L, Re	Bived		6 1	Jan		tedy Ber	1	9	U Pre	served	where appl	licable		ou te	Cooler	Jemp.	Thermo. Corr. Fac	tor 1 0

Released to Imaging: 9/19/2022 9:00:49 AM

Page 19 of 23

Final 1.001

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<b>E</b> BORA	

		XENCO			Inter-Office Shipment	nt			Page 1 of 2	
<b>IDS Number 1053903</b> Subservine: 12/28/17 17:44	• <b>105</b>	<b>1053903</b> 12/28/17 17:44	Created by:	Brenda Ward	Ple	Please send report to:	to: Kelsey Brooks	rooks		
Lab# From:	Lubt	ock	Delivery Priority	ority:		Address:		erdeen,	6701 Aberdeen, Suite 9 Lubbock, TX 79424	124
Lab# To:	Houe	ston	Air Bill No.:	: 771105606137		Fnone: E-Mail:	rnone: E-Mail: kelsey.brooks@xenco.com	ooks@	xenco.com	
Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
57225-001	s	SP#1 @ 10"-R	12/21/17 14:25	E300_CL	Chloride by EPA 300	01/04/18	01/18/18	KEB	cr	
57225-001	S	SP #1 @ 10"-R	12/21/17 14:25	SW8021B	BTEX by EPA 8021B	01/04/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
57225-001	S	SP #1 @ 10"-R	12/21/17 14:25	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/04/18	01/04/18	KEB	PHCG	
57225-001	S	SP #1 @ 10"-R	12/21/17 14:25	SW8015B_DROORO	DRO-ORO By SW8015B	01/04/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
57225-002	S	North @ 6"	12/21/17 14:50	E300_CL	Chloride by EPA 300	01/04/18	01/18/18	KEB	CL	
57225-002	S	North @ 6"	12/21/17 14:50	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/04/18	01/04/18	KEB	PHCG	
57225-002	S	North @ 6"	12/21/17 14:50	SW8015B_DROORO	DRO-ORO By SW8015B	01/04/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
57225-002	S	North @ 6"	12/21/17 14:50	SW8021B	BTEX by EPA 8021B	01/04/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
57225-003	S	East @ 6"	12/21/17 14:55	SW8021B	BTEX by EPA 8021B	01/04/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
57225-003	S	East @ 6"	12/21/17 14:55	SW8015B_DROORO	DRO-ORO By SW8015B	01/04/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
57225-003	S	East @ 6"	12/21/17 14:55	E300_CL	Chloride by EPA 300	01/04/18	01/18/18	KEB	CL	
57225-003	S	East @ 6"	12/21/17 14:55	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/04/18	01/04/18	KEB	PHCG	
57225-004	s	South @ 6"	12/21/17 15:00	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/04/18	01/04/18	KEB	PHCG	
57225-004	s	South @ 6"	12/21/17 15:00	SW8021B	BTEX by EPA 8021B	01/04/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
57225-004	s	South @ 6"	12/21/17 15:00	E300_CL	Chloride by EPA 300	01/04/18	01/18/18	KEB	cL	
57225-004	s	South @ 6"	12/21/17 15:00	SW8015B_DROORO	DRO-ORO By SW8015B	01/04/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
57225-005	S	West @ 6"	12/21/17 15:05	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/04/18	01/04/18	KEB	PHCG	
57225-005	S	West @ 6"	12/21/17 15:05	SW8015B_DROORO	DRO-ORO By SW8015B	01/04/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
57225-005	s	West @ 6"	12/21/17 15:05	E300_CL	Chloride by EPA 300	01/04/18	01/18/18	KEB	cL	
57775 005	σ	West @ 6"	20-21 /1 / 1 / 1 / 1 / 2 / 2	SW/8071B	BTEX by EPA 8021B	01/04/18	01/04/18	KER	RR4FR7 R7 R7MF FR7 X	

Final 1.001

Page 20 of 23

<b>—</b> (I)	
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$( \neg )$	
-	

WV 67:00:6 2202/17 DRO added to 12/29/17 DRO added to 12/28/17 17:44

Delivery Priority: Created by:

Brenda Ward

771105606137 Air Bill No.:

Inter Office Shipment or Sample Comments:

12/29/17 DRO added to IOS. HT

Dard ) renda la

Brenda Ward Relinquished By

Date Relinquished: 12/28/2017

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424 Please send report to: Kelsey Brooks Phone:

E-Mail: kelsey.brooks@xenco.com

R. CULLAT.

Rene Vandenberghe Received By:

Date Received: 12/29/2017 10:00

3.6 Cooler Temperature:

Page 21 of 23

Final 1.001



### **XENCO** Laboratories

### BORATORIES Inter Office Report- Sample Receipt Checklist

Sent To: Houston IOS #: 1053903

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : hou-068

Sent By:	Brenda Ward	Date Sent:	12/28/2017 05:44 PM
Received By:	Rene Vandenberghe	Date Received:	12/29/2017 10:00 AM

### Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

### NonConformance:

12/29/17 DRO added to IOS. HT

**Corrective Action Taken:** 

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by: Rene Vandenberghe Date: 12/29/2017

Received by OCD: 9/16/2022 1:46:10 PM



### **XENCO** Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 12/28/2017 05:12:00 PM Temperature Measuring device used : IR-3 Work Order #: 572225 Comments Sample Receipt Checklist 1.1 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6\*Custody Seals Signed and dated? N/A #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Date: 12/28/2017

N/A

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: Mms Moah Kelsev Brooks

Date: 12/31/2017

### Analytical Report 581097

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

COG Phillips State

### 09-APR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176)



09-APR-18

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 581097 COG Phillips State Project Address:

### Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 581097. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 581097 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns Roah

Kelsey Brooks Project Manager

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

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







### Sample Cross Reference 581097



### TRC Solutions, Inc, Midland, TX

COG Phillips State

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL-1	S	03-30-18 14:00	1 ft	581097-001
FL-2	S	03-30-18 14:05	3 ft	581097-002
NSW	S	03-30-18 14:10	6 ft	581097-003
SSW	S	03-30-18 14:15	6 ft	581097-004
ESW	S	03-30-18 14:20	6 ft	581097-005
WSW	S	03-30-18 14:25	6 ft	581097-006



### CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: COG Phillips State

Project ID: Work Order Number(s): 581097 Report Date: 09-APR-18 Date Received: 04/03/2018

### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3045814 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



### **Certificate of Analysis Summary 581097** TRC Solutions, Inc, Midland, TX **Project Name: COG Phillips State**



Date Received in Lab: Tue Apr-03-18 10:18 am

Report Date: 09-APR-18 ć  $V_{cloc}$ Stock NV. à

Received by OCD: 9/16/2022 1:46:10 PM

Project Location:					Proje	Project Manager: Kelsey Brooks	Brooks
			-			-	
	Lab Id:	581097-001	581097-002	581097-003	581097-004	581097-005	581097-006
Analucic Docuseted	Field Id:	FL-1	FL-2	NSW	SSW	ESW	WSW
naicanhay sistimut	Depth:	1- ft	3- ft	6- ft	6- ft	6- ft	6- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Mar-30-18 14:00	Mar-30-18 14:05	Mar-30-18 14:10	Mar-30-18 14:15	Mar-30-18 14:20	Mar-30-18 14:25
BTEX by EPA 8021B	Extracted:	Apr-05-18 10:00	Apr-05-18 10:00	Apr-05-18 10:00	Apr-05-18 10:00	Apr-05-18 10:00	Apr-05-18 10:00
	Analyzed:	Apr-05-18 17:24	Apr-05-18 17:46	Apr-05-18 18:06	Apr-05-18 18:44	Apr-05-18 19:04	Apr-05-18 19:23
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene	-	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00402 0.00402	< 0.00404 0.00404	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	< 0.00403  0.00403
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.002 0.002	<0.00199 0.00199	<0.002 0.002	<0.00202 0.00202
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.002 0.002	<0.00199 0.00199	<0.002 0.002	<0.00202 0.00202
Chloride by EPA 300	Extracted:	Apr-03-18 16:45	Apr-03-18 16:45				
	Analyzed:	Apr-03-18 23:28	Apr-03-18 23:33				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		1260 25.0	968 25.0				
TPH by SW8015 Mod	Extracted:	Apr-03-18 16:00	Apr-03-18 16:00	Apr-03-18 16:00	Apr-05-18 12:00	Apr-05-18 12:00	Apr-05-18 12:00
	Analyzed:	Apr-04-18 15:08	Apr-04-18 15:36	Apr-04-18 16:09	Apr-05-18 16:17	Apr-05-18 16:37	Apr-05-18 16:58
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	20.5 15.0	36.8 15.0	<15.0 15.0
Diesel Range Organics (DRO)		2870 15.0	1080 15.0	64.3 14.9	673 15.0	2130 15.0	43.3 15.0
Oil Range Hydrocarbons (ORO)		63.4 15.0	45.6 15.0	<14.9 14.9	99.9 15.0	336 15.0	<15.0 15.0
Total TPH		2933.4 15	1125.6 15	64.3 14.9	793.4 15	2502.8 15	43.3 15

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgement of XENCO Laboratories. XENCO Laboratories assumes to responsibility and makes to warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

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Page 57 of 204



### **Flagging Criteria**



Page 58 of 204

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



VOLK OFUC	ers: 581097 3045685	<b>Sample:</b> 581097-001 / SMP	Batcl	Project ID: n: 1 Matrix			
Units:	mg/kg	Date Analyzed: 04/04/18 15:08	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	e		94.3	99.9	94	70-135	
o-Terphenyl			64.1	50.0	128	70-135	
Lab Batch #:	3045685	Sample: 581097-002 / SMP	Batcl	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/04/18 15:36	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		Anarytes	99.9	99.7	100	70-135	
o-Terphenyl			63.9	49.9	128	70-135	
Lab Batch #:	3045685	Sample: 581097-003 / SMP	Batcl			10 155	
Jub Duten #: Units:	mg/kg	Date Analyzed: 04/04/18 16:09		RROGATE R		STUDV	
				1			
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.011		Analytes					
1-Chlorooctane	9		90.4	99.6	91	70-135	
o-Terphenyl	2015020	501007-004/(3) ID	47.6	49.8	96	70-135	
Lab Batch #:		Sample: 581097-004 / SMP	Batcl				
Units:	mg/kg	Date Analyzed: 04/05/18 16:17	SU	RROGATE R	ECOVERY S	STUDY	
		by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	e		98.7	99.7	99	70-135	
o-Terphenyl			48.5	49.9	97	70-135	
Lab Batch #:	3045830	Sample: 581097-005 / SMP	Batcl	n: 1 Matrix	: Soil	<u> </u>	
U <b>nits:</b>	mg/kg	Date Analyzed: 04/05/18 16:37	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		•			+		
1-Chlorooctane	e		98.5	99.7	99	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Work Orde Lab Batch #:		7, <b>Sample:</b> 581097-006 / SMP	Batch	Project ID: 1 Matrix			
Units:	mg/kg	<b>Date Analyzed:</b> 04/05/18 16:58	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane			98.2	99.9	98	70-135	
o-Terphenyl			50.6	50.0	101	70-135	
Lab Batch #:	3045814	Sample: 581097-001 / SMP	Batch	1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/05/18 17:24	SU	RROGATE R	ECOVERY S	STUDY	
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoroben		Anarytes	0.0300	0.0300	100	70-130	
4-Bromofluorob			0.0304	0.0300	100	70-130	
Lab Batch #:		Sample: 581097-002 / SMP	Batch				
	mg/kg	<b>Date Analyzed:</b> 04/05/18 17:46		RROGATE R		STUDY	
	DTEV		Amount	True		Control	
		X by EPA 8021B Analytes	Found [A]	Amount [B]	Recovery %R [D]	Limits %R	Flags
1,4-Difluoroben			0.0273	0.0300	91	70-130	
4-Bromofluorob			0.0295	0.0300	98	70-130	
Lab Batch #:	3045814	Sample: 581097-003 / SMP	Batch				
	mg/kg	Date Analyzed: 04/05/18 18:06		RROGATE R		STUDY	
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoroben	zene		0.0308	0.0300	103	70-130	
4-Bromofluorob	oenzene		0.0282	0.0300	94	70-130	
Lab Batch #:	3045814	Sample: 581097-004 / SMP	Batch	n: 1 Matrix	: Soil	1	
Units:	mg/kg	<b>Date Analyzed:</b> 04/05/18 18:44	SU	RROGATE R	ECOVERY S	STUDY	
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		•					
1,4-Difluoroben	izene		0.0289	0.0300	96	70-130	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



	r <b>ders :</b> 58109' #: 3045814	7, <b>Sample:</b> 581097-005 / SMF	Batch	Project ID 1: 1 Matrix			
Units:	mg/kg	Date Analyzed: 04/05/18 19:04	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	obenzene		0.0292	0.0300	97	70-130	
4-Bromoflue	orobenzene		0.0263	0.0300	88	70-130	
Lab Batch	#: 3045814	Sample: 581097-006 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/05/18 19:23	SU	RROGATE R	ECOVERY	STUDY	
		K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro		1 xindiy (C)	0.0291	0.0300	97	70-130	
4-Bromoflue			0.0293	0.0300	98	70-130	
Lab Batch	#: 3045685	Sample: 7641971-1-BLK /					
Units:	mg/kg	<b>Date Analyzed:</b> 04/04/18 02:48		RROGATE R	ECOVERY	STUDY	
	TPH b	by SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
		Analytes	[A]	[B]	%R [D]	%R	
1-Chlorooct	ane		99.3	100	99	70-135	
o-Terphenyl	l		50.5	50.0	101	70-135	
Lab Batch	#: 3045814	Sample: 7642116-1-BLK /	BLK Batch	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 04/05/18 11:19	SU	RROGATE R	ECOVERY	STUDY	
		K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0269	0.0300	90	70-130	
4-Bromoflue	orobenzene		0.0256	0.0300	85	70-130	
Lab Batch	#: 3045830	Sample: 7642101-1-BLK /	BLK Batcl	n: 1 Matrix	: Solid		
U <b>nits:</b>	mg/kg	Date Analyzed: 04/05/18 13:09	SU	RROGATE R	ECOVERY	STUDY	
	TPH b	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes			1 1 1	1 1	
1-Chlorooct		Analytes	92.7	100	93	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Work Ore Lab Batch #	<b>ders :</b> 58109 <sup>°</sup> #: 3045685	7, <b>Sample:</b> 7641971-1-BKS /	BKS Bate	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 04/04/18 03:19	SU	RROGATE R	ECOVERYS	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ine		124	100	124	70-135	
o-Terphenyl			54.4	50.0	109	70-135	
Lab Batch #	<b>#:</b> 3045814	Sample: 7642116-1-BKS /	BKS Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 04/05/18 09:22	SU	RROGATE R	ECOVERY	STUDY	
		K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorol		Anaryus	0.0313	0.0300	104	70-130	
4-Bromofluo			0.0314	0.0300	105	70-130	
Lab Batch #	<b>#:</b> 3045830	Sample: 7642101-1-BKS /					
Units:	mg/kg	Date Analyzed: 04/05/18 13:31		RROGATE R	ECOVERY	STUDY	
	трц і	w SW9015 Mod	Amount	True		Control	
		oy SW8015 Mod Analytes	Found [A]	Amount [B]	Recovery %R [D]	Limits %R	Flags
1-Chloroocta		Anarytes	97.1	100	97	70-135	
o-Terphenyl			48.5	50.0	97		
Lab Batch #	4. 2045685	Sample: 7641971-1-BSD /				70-135	
Lab Batch # Units:	mg/kg	<b>Date Analyzed:</b> 04/04/18 03:50					
Units:	mg/kg	Date Analyzeu: 04/04/18 05:50	SU	RROGATE R	ECOVERY	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta	ine		126	100	126	70-135	
o-Terphenyl			56.8	50.0	114	70-135	
Lab Batch #	<b>#:</b> 3045814	Sample: 7642116-1-BSD /	BSD Bate	h: 1 Matrix	: Solid		
	mg/kg	Date Analyzed: 04/05/18 09:42	SU	RROGATE R	ECOVERY	STUDY	
Units:	mg/kg	5					
Units:	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Units:	BTEX		Found	Amount	•	Limits	Flags

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Work Ord Lab Batch #	l <b>ers :</b> 58109' : 3045830	7, <b>Sample:</b> 7642101-1-BSD / B	SD Batch	Project ID : 1 Matrix			
Units:	mg/kg	Date Analyzed: 04/05/18 13:52	SU	RROGATE R	ECOVERYS	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctar	ne		99.2	100	99	70-135	
o-Terphenyl			49.3	50.0	99	70-135	
Lab Batch #	: 3045685	Sample: 581095-001 S / MS	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	<b>Date Analyzed:</b> 04/04/18 04:50	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar			119	99.9	119	70-135	
o-Terphenyl			52.6	50.0	105	70-135	
Lab Batch #	: 3045814	<b>Sample:</b> 581096-004 S / MS	Batch				
Units:	mg/kg	<b>Date Analyzed:</b> 04/05/18 10:01		RROGATE R		STUDY	
		Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorob		Anarytes	0.0274	0.0300	91	70-130	
4-Bromofluor			0.0274	0.0300	91		
Lab Batch #		Sample: 581096-005 S / MS	Batch			70-130	
Lab Batch # Units:	mg/kg	<b>Date Analyzed:</b> 04/05/18 15:36		RROGATE R		TUDV	
onno.	ing/kg	Date Analyzed. 01/05/10 15:50	50	KRUGATE R		STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar		•	109	99.8	109	70-135	
o-Terphenyl			53.5	49.9	107	70-135	
Lab Batch #	: 3045685	Sample: 581095-001 SD / M	SD Batch	: 1 Matrix	: Soil	1	
Units:	mg/kg	Date Analyzed: 04/04/18 05:21	SU	RROGATE R	ECOVERY	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar		·	121	99.7	121	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



### Project Name: COG Phillips State

Work O	rders : 581097	7,		Project ID:	1		
Lab Batch	#: 3045814	Sample: 581096-004 SD / N	MSD Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/05/18 10:20	SU	RROGATE R	ECOVERY S	STUDY	
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0276	0.0300	92	70-130	
4-Bromoflu	iorobenzene		0.0304	0.0300	101	70-130	
Lab Batch	#: 3045830	Sample: 581096-005 SD / M	MSD Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/05/18 15:57	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	etane		124	100	124	70-135	
o-Terpheny	/1		47.7	50.0	95	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



### **BS / BSD Recoveries**

Project Name: COG Phillips StateProject ID:Date Prepared: 04/05/2018Project ID:Date Prepared: 04/05/2018Project ID:Date Prepared: 04/05/2018Project ID:Date Prepared: 04/05/2018Date Analyzed: 04/05/2018Batch #: 1Date Analyzed: 04/05/2018Batch #: 1Date Analyzed: 04/05/2018Batch #: 1Date Namelyzed: 04/05/2018Bank [Ald [Ald [Ald [Ald [Ald [Ald [Bl<]]	•			<b>BS / BSD Recoveries</b>	D Rec	overie	S				South States	1.2
Foject ID: Date Prepared: 04/05/2018Project ID: Project ID: Date Analyzed: 04/05/2018Date Prepared: 04/05/2018Date Analyzed: 04/05/2018Date Prepared: 04/05/2018Date Analyzed: 04/05/2018Matrix: SolidBlankSpikeBlankSpikeBlankSpikeBlankSpike <t< th=""><th>ហ</th><th>Projec</th><th>ct Name</th><th>: COG PI</th><th>nillips St</th><th>ate</th><th></th><th></th><th></th><th></th><th>LOWRON .</th><th></th></t<>	ហ	Projec	ct Name	: COG PI	nillips St	ate					LOWRON .	
Date Frepared: 04/05/2018       Date Frepared: 04/05/2018         Batch #: 1       Matrix: Solid         IE: 7642116-1-BKS       Date #: 1         Matrix: Solid         Blank       B								Proj	ect ID:			
le: 7642116-1-BKSBatch #: 1Amtrix: SolidBlanch #: 1Match #: 1Matrix: SolidBlanck /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDYSample ResultSpikeBlankSpikeBlankBlankSpikeDup.RoutofControlSample ResultAddedSpikeBlankSpikeBlankSpikeDup.RoutofControlSample ResultAddedSpikeMatedSpikeDup.RoutofControlControlI/AlBlICIIDIIEIResult IFIIGIControlSol <ctd><ctd><ctd><ctd>0.1000.1271270.1010.113112670-13035<ctd><ctd><ctd><ctd><ctd>0.02010.1000.1201200.103112670-13035<ctd><ctd><ctd><ctd><ctd>0.02010.1000.1151130.103112670-13035<ctd><ctd><ctd><ctd>0.0100.1171170.1010.113112670-13035<ctd><ctd><ctd>&lt;</ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd></ctd>		D	ate Prepar	ed: 04/05/20	18			Date A	nalyzed: (	04/05/2018		
BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATERECOVERY STUDYBlank<	Sample: 7642116-	1-BKS	Bate	<b>h</b> #: 1					Matrix: 3	Solid		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			BLAN	K/BLANK	SPIKE / I	<b>3LANK 5</b>	PIKE DUP	LICATE	RECOVI	ERY STUI	Y	
.00201         0.100         0.127         127         0.101         0.120         119         6         70-130           .00201         0.100         0.120         120         0.101         0.113         112         6         70-130           .00201         0.100         0.115         115         0.101         0.103         107         6         70-130           .00402         0.201         0.238         118         0.202         0.223         110         7         70-130           .00402         0.201         0.117         117         0.101         0.111         110         7         70-130           .00201         0.100         0.117         117         0.101         0.111         110         7         70-130           .00201         0.100         0.117         117         0.101         0.111         110         5         70-130           .00201         0.100         0.117         117         0.101         0.111         110         5         70-130           .00201         0.100         0.102         0.101         0.111         110         5         70-130           .00201         0.100         0.101	8021B	Blank Sample Result [A]		Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
.00201     0.100     0.120     120     0.101     0.113     112     6     70-130       .00201     0.100     0.115     115     0.101     0.108     107     6     70-130       .00201     0.100     0.115     118     0.202     0.223     110     7     70-130       .00201     0.100     0.117     117     0.101     0.111     110     7     70-130       .00201     0.100     0.117     117     0.101     0.111     110     5     70-130       .00201     0.100     0.117     117     0.101     0.111     110     5     70-130       .00201     0.100     0.117     117     0.101     0.111     110     5     70-130       .00201     0.100     0.117     117     0.101     0.111     110     5     70-130       .012     Date Prepared:     04/03/2018            .0201     0.100     0.111     110     5     70-130       .0201     0.101     0.111     110     5     70-130       .0201     0.101     0.111     110     5     70-130       .0201     0.101     0.111 <td></td> <td>&lt;0.00201</td> <td>0.100</td> <td>0.127</td> <td>127</td> <td>0.101</td> <td>0.120</td> <td>119</td> <td>6</td> <td>70-130</td> <td>35</td> <td></td>		<0.00201	0.100	0.127	127	0.101	0.120	119	6	70-130	35	
.00201         0.100         0.115         115         0.101         0.108         107         6         70-130           .00402         0.201         0.238         118         0.202         0.223         110         7         70-130           .00201         0.100         0.117         117         0.101         0.111         110         5         70-130           Date Prepared:         0.4/03/2018         Date Aralyzed:         04/03/2018         Date Aralyzed:         04/03/2018		<0.00201	0.100	0.120	120	0.101	0.113	112	9	70-130	35	
(00402         0.201         0.238         118         0.202         0.223         110         7         70-130           (00201         0.100         0.117         117         0.101         0.111         110         5         70-130           (00201         0.100         0.117         117         0.101         0.111         110         5         70-130           Date Prepared:         04/03/2018         Matrix: Solid           Batch #: 1         Matrix: Solid		<0.00201	0.100	0.115	115	0.101	0.108	107	9	70-130	35	
.00201         0.100         0.117         117         0.101         0.111         110         5         70-130           Date Prepared:         04/03/2018         Date Analyzed:         04/03/2018         Date Analyzed:         04/03/2018           Batch #:         1         Matrix:         Solid		<0.00402	0.201	0.238	118	0.202	0.223	110	7	70-130	35	
Date Prepared: 04/03/2018 Batch #: 1		<0.00201	0.100	0.117	117	0.101	0.111	110	5	70-130	35	
Batch #: 1		D	ate Prepar	ed: 04/03/20	18			Date A	nalyzed: (	04/03/2018		
	<b>Sample:</b> 7641966-	1-BKS	Batc	<b>h</b> #: 1					Matrix: 5	Solid		

Jnits: mg/kg Chloride by EPA 300	Blank Sample Result [A]	BLAN. Spike Added	BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY       Blank     Control     ded       ded     Spike     Added     Spike     Blank     Control     ded       ded     Spike     Added     Spike     Dup.     RPD     Limits       Result     %R     MR     Mnplicate     %R     %R     %R	SPIKE / B Blank Spike %R	LANK S Spike Added	PIKE DUPI Blank Spike Duplicate	JICATE I Blk. Spk Dup. %R	RECOVE RPD %	ERY STUD Control Limits %R	V Control Limits %RPD	Flag
Analytes		[B]	[c]	[D]	[E]	Result [F]	[ <u></u> ]				
Chloride	<5.00	250	241	96	250	236	94	2	90-110	20	

Lab Batch ID: 3045650

OJS

Analyst:

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

Lab Batch ID: 3045814

mg/kg

Units:

Work Order #: 581097

ALJ

Analyst:

BTEX by EPA 8021B

Analytes

Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Final 1.000



Released to Imaging: 9/19/2022 9:00:49 AM

### **BS / BSD Recoveries**

## Project Name: COG Phillips State



20

70-135

4

95

951

1000

91

910

1000

<15.0

Diesel Range Organics (DRO)

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

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		7

## Form 3 - MS / MSD Recoveries

### **Project Name: COG Phillips State**



Work Order # :	581097
Lab Batch ID:	3045814
Date Analyzed:	04/05/2018
Reporting Units:	mg/kg
	DTEV L.: ED A 9031D

Project ID: Batch #:

Matrix: Soil

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QC- Sample ID: 581096-004 S

Received by OCD: 9/16/2022 1:46:10 PM

Date Analyzed:	04/05/2018	Date Prepared: 04/05/2018	04/05/2	018	An	Analyst: ALJ	LJ					
Reporting Units:	mg/kg		Σ	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MAT	AIX SPH	KE DUPLICA	TE REC	<b>DVERY</b>	STUDY		
	BTEX by EPA 8021B	Parent Sample	Snike	Spiked Sample Result	Spiked	Snike	Duplicate Sniked Samule	Spiked	RPD	Control Limits	Control Limits	Flao
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]		%	%R	%RPD	0
Benzene		<0.00202	0.101	0.0537	53	0.0994	0.0583	59	~	70-130	35	×
Toluene		<0.00202	0.101	0.0365	36	0.0994	0.0414	42	13	70-130	35	×
Ethylbenzene		<0.00202	0.101	0.0248	25	0.0994	0.0327	33	27	70-130	35	x
m,p-Xylenes		0.00869	0.202	0.0597	25	0.199	0.0707	31	17	70-130	35	×
o-Xylene		0.00436	0.101	0.0315	27	0.0994	0.0399	36	24	70-130	35	×
Lab Batch ID:	3045650	QC- Sample ID:	581087-014 S	-014 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared:	04/03/2018	018	An	Analyst: O	OJS					
Reporting Units:	mg/kg		Σ	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MAT	IIX SPII	KE DUPLICA	TE REC	<b>DVERY</b>	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		264	250	504	96	250	514	100	5	90-110	20	
Lab Batch ID:	3045650	QC- Sample ID:	581087-017	-017 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	04/03/2018	Date Prepared: 04/03/2018	04/03/2	018	An	Analyst: O	OJS					
Reporting Units:	mg/kg		Z	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MAT	AIX SPH	KE DUPLICA	TE REC	<b>DVERY</b>	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	

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

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

20

90-110

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96

280

250

97

283

250

41.0

Chloride

Page 15 of 18

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	110	4
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1		
		/

## Form 3 - MS / MSD Recoveries

**Project Name: COG Phillips State** 



				!	:							
Date Analyzed:	04/04/2018	Date Prepared: 04/03/2018	04/03/20	)18	An	Analyst: ARM	RM					
<b>Reporting Units:</b>	mg/kg		Μ	ATRIX SPIKI	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	<b>DVERY</b>	STUDY		
	TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	SO	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	<u>[</u> ]	8% [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range	Gasoline Range Hydrocarbons (GRO)	<15.0	666	096	96	697	971	97	-	70-135	20	
Diesel Range Organics (DRO)	rganics (DRO)	26.5	666	1000	26	697	1010	66	-	70-135	20	
Lab Batch ID:	3045830	QC- Sample ID:	ple ID: 581096-005 S	005 S	Ba	Batch #:	1 Matrix	Matrix: Soil				
Date Analyzed:	04/05/2018	Date Prepared: 04/05/2018	04/05/20	)18	An	Analyst: ARM	RM					
<b>Reporting Units:</b>	mg/kg		M	ATRIX SPIKI	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	<b>DVERY</b>	STUDY		
	TPH by SW8015 Mod	Parent Samule	Snilzo	Spiked Sample Spiked Beente Sample	Spiked	Snika	Duplicate Suited Semule	Spiked	uaa	Control I imite	Control I imite	Flag
		Result	Added		%R	Added	Result [F]	%R	%	%R	%RPD	2011
	Analytes	[ <b>A</b> ]	B		D	Ε		<u></u>				

50 20

 $\infty | -$ 

70-135 70-135

90

990 1880

1000

93

1020 1860

998 898

91.9 743

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*(C-F)/(C+F)

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

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

Matrix: Soil

---

Batch #:

QC-Sample ID: 581095-001 S

581097 3045685

Released to Imaging: 9/19/2022 9:00:49 AM

Work Order # : Lab Batch ID:

**Project ID:** 

Page 16 of 18

Final 1.000

# CHAIN OF CUSTODY

6 Relin	Rolfin					Ū			10	9	œ	7	6	5	4	3	2	1	No.		Samplers	Project Contact: Joel Lov	ilo	2057 C Midland,	<b>Company Address:</b>	Company TRC En	0		
Relinquished by:	Refinquished by:	in the bulk bulk to be a set of the bulk bulk bulk bulk bulk bulk bulk bulk	TAT Starts Day received by I ab if received by 5:00 nm		2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround Time (Business days)					JSVN	50	500	NSW	52-2	62-1	Field ID / Point of Collection		Samplers's Name Joel Lowry	Contact Joel Lowry	lowry@trcsolutions.com	2057 Commerce Drive Midland, TX 79703	Address:	Company Name / Branch: TRC Environmental	Client / Reporting Information		
		SAMPLE CUSTO	I ah if received hy 5.0		x Contract TAT	7 Day TAT	6 Day TAT	ys)											Collection										
Date Time:	Date Time:	DY MUST B	10 mm										6"	6	6.	6"	W	1'	Sample Depth										
	18 315	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COL											3-30-18	3-30-18	00	-		3-30-18	Date	Collection		5 1		Invoice To:	Project Location:	Project Name/Numbe			
Received By: 5		BELOW EAC			Lev	Lev	Lev						2:25	2:20	2:15	2:10	2:05	2:00	Time			ending	ADENATIS				Proje		
By:	By	H TIME SA	I NNP Checkins		Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Dat					5	5	2	5	2	2	Matrix b				ł			HILLIPS	Project Information		WWW
100	LARA	MPLES CH	Ist		Forms)	QC+ Forms	C	a Deliverab					-	-	-	-	-	-	# of bottles			2	2			4	ation		WWW.Xenco.com
		ANGE POS				_		Data Deliverable Information											NaOH/Zn Acetate	Numbe		10	CN.			AVE			
Custo	2 Relink	SESSION, I		-	UST	TRRI	Leve	ion			- 1								HNO3 H2SO4	Number of preserved bottles		4	AND						
Custody Seal #	Reinquisted By:	NCLUDING		1100-111	UST / RG -411	TRRP Level IV	Level IV (Full Data												NaOH NaHSO4	ved bottle		-	HAKK						
	mer	COURIER																	MEOH NONE		V		Warl						
Pres	14	JRIER DELIVERY					Pkg /raw data)						XX	XX	XX	XX	XX	XX	TPH 80 BTEX 8	_	1	-		-			-		
orved whe	Date Time:																×	X	Chlorid	e			_		_	_		Analy	
Preserved where applicable	Mis:		PED-E	50		0	50	z																				Analytical Information	
ible	K2 Reha		FED.EX/IIDS: Tracking #	d STAPL		tacv	DW2	Notes:									-					-					_	nation	Manual and a
Onlee	Retaived By:		FD.FX /IIPS: Tracking #	ANE		20	) Low Try Q		Ι,				-								_					-	-		
	$\left \right\rangle$		-	40		20	75		001101	orrect	19-5	F.(0-6	Temm: . 3	-					-	-					_			(	DC
Cooler Temp. -D, S	4	2	utions ida	1.5	li	PHACKELL @ CANCHO-COM	TRESOLUTIONS			Corrected Temp:	(A-23. +0.2°C)	CF(0-6: -0.2°C)	ىن														-	(and	CC
p. The	T		Sildy	1 KCSOLUTION	1	5	4500			mp:	2°C)	C)							Field Co	A	WW	N	OW SL.	P =	GW	s=		M	1
Thermo, Corr. Páctor	6			477		2	Ĩ						IR IC						Field Comments	A = Air	WW= Waste Water	WI = Wipe	SW - Surface water SL = Sludge OW =Ocean/Sea Water	DW = Drinking Water P = Product	GW =Ground Water	W = Water S = Soil/Sed/Solid		Matrix Codes	
Páctor	101	-		0105	c	-	Cor						IR ID:R-8								Water		e water Sea Wate	ng Water	Water	Solid		Sa	

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Final 1.000

ge 69 of 204

LABORATORIES

Received by OCD: 9/16/2022 1:46:10 PM



### XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 04/03/2018 10:18:00 AM Temperature Measuring device used : R8 Work Order #: 581097 Comments Sample Receipt Checklist #1 \*Temperature of cooler(s)? .1 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6\*Custody Seals Signed and dated? N/A #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes TPH received in bulk container #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No #18 Water VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 04/03/2018

Checklist reviewed by:

fession kramer

Jessica Kramer

Date: 04/03/2018

### Analytical Report 585254

for TRC Solutions, Inc

Project Manager: Joel Lowry Phillips State #1 IRP-4882

### 14-MAY-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-25), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





14-MAY-18

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **585254 Phillips State #1 IRP-4882** Project Address: Lea Co, NM

### Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 585254. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 585254 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns Roah

Kelsey Brooks Project Manager

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

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






### Sample Cross Reference 585254



### TRC Solutions, Inc, Midland, TX

Phillips State #1 IRP-4882

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NSW b	S	04-26-18 10:42	1 ft	585254-001
ESW b	S	04-26-18 14:12	1 ft	585254-002
SSW b	S	04-27-18 16:40	1 ft	585254-003
WSW b	S	04-27-18 11:05	1 ft	585254-004



### CASE NARRATIVE

Page 74 of 204

Client Name: TRC Solutions, Inc Project Name: Phillips State #1 IRP-4882

Project ID: Work Order Number(s): 585254

ATORIES

Report Date:14-MAY-18Date Received:05/08/2018

### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-3049874 Chloride by EPA 300

Lab Sample ID 585254-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 585254-001, -002, -003, -004. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

XENCO		Joel Lowry
X	Project Id:	Contact:

Lea Co, NM

**Project Location:** 

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### **Certificate of Analysis Summary 585254** TRC Solutions, Inc, Midland, TX



**Date Received in Lab:** Tue May-08-18 10:30 am

Project Manager: Kelsey Brooks **Report Date: 14-MAY-18** 

	Lab Id:	585254-001	585254-002	585254-003	585254-004		
Analysis Domostal	Field Id:	NSW b	ESW b	SSW b	WSW b		
naisanhay sistimuy	Depth:	1- ft	1- Ĥ	1- ft	1- ft		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Apr-26-18 10:42	Apr-26-18 14:12	Apr-27-18 16:40	Apr-27-18 11:05		
Chloride by EPA 300	Extracted:	May-11-18 16:30	May-11-18 16:30	May-11-18 16:30	May-11-18 16:30	-	
	Analyzed:	May-11-18 22:14	May-11-18 22:44	May-11-18 22:50	May-11-18 23:08		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		121 4.93	450 25.0	422 49.9	524 4.94		
TPH by SW8015 Mod	Extracted:		May-08-18 16:00				
	Analyzed:		May-09-18 05:09				
	Units/RL:		mg/kg RL				
Gasoline Range Hydrocarbons (GRO)	-		119 15.0				
Diesel Range Organics (DRO)			3740 15.0				
Oil Range Hydrocarbons (ORO)			31.9 15.0				
Total TPH			3890.9 15				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgement of XENCO Laboratories. XENCO Laboratories assumes to responsibility and makes to warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

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### LABORATORIES

### **Flagging Criteria**



Page 76 of 204

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



### Form 2 - Surrogate Recoveries

Project Name: Phillips State #1 IRP-4882

Lab Batch #:		Sample: 585254-002 / SMP	Bate				
Units:	mg/kg	Date Analyzed: 05/09/18 05:09	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	)		98.3	99.8	98	70-135	
o-Terphenyl			62.0	49.9	124	70-135	
Lab Batch #:	3049423	<b>Sample:</b> 7644346-1-BLK / B	LK Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 05/08/18 20:41	SU	RROGATE R	ECOVERY S	STUDY	
		y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			82.8	100	83	70-135	
o-Terphenyl			43.4	50.0	83	70-135	
Lab Batch #:	3049423	<b>Sample:</b> 7644346-1-BKS / B				70-155	
Units:	mg/kg	<b>Date Analyzed:</b> 05/08/18 21:08		RROGATE R		STUDY	
	TPH b	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	()	(- <b>)</b>	[D]		
1-Chlorooctane	2		100	100	100	70-135	
o-Terphenyl			47.8	50.0	96	70-135	
Lab Batch #:	3049423	Sample: 7644346-1-BSD / B	SD Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 05/08/18 21:35	SURROGATE RECOVERY STUE		STUDY		
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1 011		Analytes					
1-Chlorooctane	2		101	100	101	70-135	
o-Terphenyl	2040422	G	49.2	50.0	98	70-135	
Lab Batch #:		Sample: 585093-001 S / MS	Bate				
Units:	mg/kg	<b>Date Analyzed:</b> 05/08/18 22:28	SU	RROGATE R	ECOVERY S	STUDY	
		y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	2		98.1	99.8	98	70-135	
o-Terphenyl			50.4	49.9	101	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



### Form 2 - Surrogate Recoveries

### Project Name: Phillips State #1 IRP-4882

	rders : 585254 #: 3049423	4, Sample: 585093-001 SD / 1	MSD Batcl	Project ID: n: 1 Matrix:			
Units:	mg/kg	Date Analyzed: 05/08/18 22:55	SU	RROGATE RI	<b>ECOVERY</b> S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	etane		99.3	99.9	99	70-135	
o-Terpheny	/1		48.9	50.0	98	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

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### **BS / BSD Recoveries**

# Project Name: Phillins State #1 IRP-4882

		Project	t Name:	Project Name: Phillips State #1 1RP-4882	State #1	IRP-48	882					
Work Orde	Work Order #: 585254							Proj	Project ID:			
Analyst:	SCM	Da	ite Prepare	Date Prepared: 05/11/2018	8			Date A	nalyzed: 0	Date Analyzed: 05/11/2018		
Lab Batch ID: 3049874	<b>D:</b> 3049874 <b>Sample:</b> 7644562-1-BKS	BKS	Batch #:	<b>  #:</b> 1					Matrix: Solid	solid		
Units:	mg/kg		BLAN	K /BLANK 9	SPIKE / H	<b>STANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVI	RECOVERY STUDY	λ	
	Chloride by EPA 300	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Ana	Analytes	<u>द</u>	[B]	[c]	[0]	[E]	Result [F]	[ <u></u> ]	e,	<b>VI</b> 0/		
Chloride		<5.00	250	275	110	250	273	109	1	90-110	20	
Analyst:	ARM	Da	te Prepare	Date Prepared: 05/08/2018	8			Date A	nalyzed: 0	Date Analyzed: 05/08/2018		
Lab Batch ID: 3049423	<b>D:</b> 3049423 <b>Sample:</b> 7644346-1-BKS	BKS	Batch #:	L#: 1					Matrix: Solid	olid		
Units:	mg/kg		BLANI	K /BLANK 9	SPIKE / H	<b>STANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE	RECOVI	ERY STUD	X	
	TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Ana	Analytes		[B]	[c]	[0]	[E]	Result [F]	[6]				
Gasoline	Gasoline Range Hydrocarbons (GRO)	<15.0	1000	924	92	1000	946	95	2	70-135	20	
Diesel R	Diesel Range Organics (DRO)	<15.0	1000	1020	102	1000	1050	105	з	70-135	20	

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

X	XENCO	For	m 3 - ]	Form 3 - MS / MSD Recoveries	SD R	kecov	eries				Sec.	
LAB	IDRATORIES	Project N	Vame: P	Project Name: Phillips State #1 IRP-4882	ate #1 I	[RP-48	82				Hotesser	
Work Order # :	585254						Project ID:	ë				
Lab Batch ID:	3049874	QC- Sample ID:	584965-012 S	12 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	05/11/2018	Date Prepared:	05/11/2018	8	An	Analyst: S	SCM					
<b>Reporting Units:</b>	mg/kg		MA	TRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	OVERY S	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%В	%RPD	)
Chloride		<4.99	250	295	118	250	292	117	1	90-110	20	×
Lab Batch ID:	3049874	QC- Sample ID:	585254-001	01 S	Ba	Batch #:	1 Matrix:	<b>x:</b> Soil				
Date Analyzed:	05/11/2018	Date Prepared:	05/11/2018	8	An	Analyst: S	SCM					
Reporting Units:	mg/kg		MA	TRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	OVERY S	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	N N		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		121	247	405	115	247	410	117	1	90-110	20	x
Lab Batch ID:	3049423	QC- Sample ID:	585093-001	01 S	Ba	Batch #:	1 Matrix:	<b>x:</b> Soil				
Date Analyzed:	05/08/2018	Date Prepared:	05/08/2018	8	An	Analyst: A	ARM					
Reporting Units:	mg/kg		MA	TRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	OVERY S	STUDY		
	TPH by SW8015 Mod	Parent Sample		Spiked Sample Result	N Ü	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	8% B]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range	Gasoline Range Hydrocarbons (GRO)	<15.0	866	912	91	666	929	93	2	70-135	20	
Diesel Range Organics (DRO)	Jrganics (DRO)	<15.0	866	1020	102	666	1030	103	1	70-135	20	

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

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

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Page 10 of 12

Page 80 of 204

### Π DRA RATORIES

# CHAIN OF CUSTODY

Received by	OCD:	9/16/202	2 1:46:10	PM			
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		WW	www.xenco.com	m	- St				Xenco Job #	20
Attended Translations Information		2				_	Analytic	Analytical Information	_	
Company Name/ Branch: TRC Environmental Corporation	Project	Project Name/Number:	SHUG	#1 12P-1	120-4882					44
Company Address: 10 DestaDrive, Suite 150E, Midland, TX, 79705	Project Location:	1	a, lo	-						
Errail: Phone No: ilowry@trcsolutions.com 432-466-4450	Invoice To:		to Becky Haskell	Hashell						
Project Contact: Joel Lowry	Invoice:				1	xt				
Samplers's Name Joel Lowry						1.000	-			
	Collection	otion		Number of pre	Number of preserved bottles	-	-			
No. Field ID / Point of Collection	Sample Depth Date	a Time	# of # of E	NaOH/Zn Acetate HNO3 H2SO4	NaOH NaHSO4 MEOH	NONE TPH 801 Chloride	BTEX 80 Hold			
1 NSW 6	1' 4126/18	5	1			X				
2 ESW b	1. 4120/18		1 1			XX				
3 55Wb	1' 4127/18	18 4:40	1			X				
4 WSW 6	1' 41217/18	1	1			X				
U U										5
σ									Temp:	N
7									CF:(0-6	CF:(0-6: -0.2°C)
8									(6-)	13· +0.2°
9									Correct	Corrected Temp:
0	_						-			
	_	]						nuica.		
Same Day TAT X 5 Day TAT			Level II Std QC		Level IV (Full Data Pkg /raw data)	Pkg /raw data)		ilowry@trc:	lowry@trcsolutions.com	
Next Cay EMERGENCY			Level III Std QC+ Forms		TRRP Level IV			zconder@t	zconder@trcsolutions.com	B
2 Day EMERGENCY     Contract TAT		Le	Level 3 (CLP Forms)		UST / RG -411			kblackburn	kblackburn@trcsolutions.com	com
3 Day EMERGENCY		BL []	TRRP Checklist							
TAT Starts Day received by Lab, if received by 5:00 pm	0 pm		2					FED-EX / U	FED-EX / UPS: Tracking #	
Reinquished by Sampler:	Date Time: Received B	Received	a	Relinquished By:	Relinquished By:	DHIEH DELIVEHY	Date Time:		Received By:	
RellAquished by:	Date Time: <u>5</u> 71/8 31 Date Time:	HS 3 CSP C	Contra (	TONIG/EZAL	Relinguished By: 4 Carron ( Custody Seal #	Sand 12	Preserved where applicable	4:38 applicable	Recolved By:	on los Cooler

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Page 81 of 204

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### **XENCO** Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 05/08/2018 10:30:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 585254	Temperature Measuring device used: R8
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Date: 05/08/2018

Checklist completed by: Katie Lowe Checklist reviewed by: Kelsey Brooks

Date: 05/08/2018

### Analytical Report 587535

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Phillips State

### 05-JUN-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



05-JUN-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 587535 Phillips State Project Address: Lea County, NM

### Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 587535. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 587535 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns Hoah

Kelsey Brooks Project Manager

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

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Sample Id

ESW

### Sample Cross Reference 587535



### TRC Solutions, Inc, Midland, TX

Phillips State

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	05-29-18 08:00		587535-001

.



### CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Phillips State

Project ID: Work Order Number(s): 587535 Report Date: 05-JUN-18 Date Received: 05/30/2018

### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Released to Imaging: 9/19/2022 9:00:49 AM

### **Certificate of Analysis Summary 587535** TRC Solutions, Inc, Midland, TX **Project Name: Phillips State**



Date Received in Lab: Wed May-30-18 10:30 am **Project Manager:** Kelsey Brooks **Report Date: 05-JUN-18** 

Project Location: Lea County, NM				Project Manager: Kelsey Brooks	Kelsey Brooks
	Lab Id:	587535-001	01		
Analysis Dogunated	Field Id:	ESW			
naisanhay sistimuy	Depth:				
	Matrix:	SOIL			
	Sampled:	May-29-18 08:00	8:00		
Chloride by EPA 300	Extracted:	May-31-18 12:00	2:00		
	Analyzed:	Jun-01-18 10:16	0:16		
	Units/RL:	mg/kg	RL		
Chloride		145	5.00		
TPH by SW8015 Mod	Extracted:	May-31-18 07:00	7:00		
	Analyzed:	May-31-18 19:57	9:57		
	Units/RL:	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0		
Diesel Range Organics (DRO)		<15.0	15.0		
Oil Range Hydrocarbons (ORO)		<15.0	15.0		
Total TPH		<15	15		
	-				

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

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Page 5 of 12



### **Flagging Criteria**



- Page 88 of 204
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



### Form 2 - Surrogate Recoveries

Work Ord Lab Batch #	l <b>ers :</b> 587535 : 3052046	5, <b>Sample:</b> 587535-001 / SMP	Bate	Project ID: h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 05/31/18 19:57	SU	JRROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctar	ne		85.8	99.7	86	70-135	
o-Terphenyl			44.5	49.9	89	70-135	
Lab Batch #	: 3052046	Sample: 7655868-1-BLK / I	BLK Bate	ch: 1 Matrix	: Solid	·	
Units:	mg/kg	Date Analyzed: 05/31/18 09:54	SU	JRROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar			86.1	100	86	70-135	
o-Terphenyl			46.2	50.0	92	70-135	
Lab Batch #	: 3052046	<b>Sample:</b> 7655868-1-BKS / E			-		
Units:	mg/kg	<b>Date Analyzed:</b> 05/31/18 10:15		JRROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctar	ne		126	100	126	70-135	
o-Terphenyl			59.6	50.0	119	70-135	
Lab Batch #	: 3052046	Sample: 7655868-1-BSD / E	BSD Bate	ch: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 05/31/18 10:36	SU	JRROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar	ne		128	100	128	70-135	
o-Terphenyl			60.3	50.0	121	70-135	
Lab Batch #	: 3052046	<b>Sample:</b> 587529-001 S / MS	Batc	h: 1 Matrix	Soil		
		Date Analyzed: 05/31/18 11:19	SU	JRROGATE R	ECOVERY S	STUDY	
	mg/kg						
	TPH b	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Units:	TPH b	oy SW8015 Mod	Found	Amount	%R	Limits	Flags

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



### Form 2 - Surrogate Recoveries

Work Orders : 58753 Lab Batch #: 3052046	35, Sample: 587529-001 SD / 1	MSD Batcl	Project ID: 1: 1 Matrix:			
Units: mg/kg	Date Analyzed: 05/31/18 11:41	SU	RROGATE R	ECOVERY S	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		103	99.8	103	70-135	
o-Terphenyl		52.1	49.9	104	70-135	

\* Surrogate outside of Laboratory QC limits

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

All results are based on MDL and validated for QC purposes.

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## **BS / BSD Recoveries**

## **Project Name: Phillips State**



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

X	XENCO	For	.m 3 -	Form 3 - MS / MSD Recoveries	SD R	kecov	eries					
LAE	BORATORIES	Project	Name: 1	Project Name: Phillips State	ate						HOUNDARY	
Work Order # :	587535						Project ID:	ö				
Lab Batch ID:	3052090	QC- Sample ID:	: 587510-004 S	004 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	06/01/2018	Date Prepared:	: 05/31/2018	18	An	Analyst: S	SCM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	<b>OVERY</b>	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	S S	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	<u>.</u>	10]	Added [E]	Result [F]	[G] %	%	%K	%KPD	
Chloride		30.9	246	313	115	246	318	117	7	90-110	20	X
Lab Batch ID:	3052090	QC- Sample ID:	: 587532-003 S	003 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	06/01/2018	Date Prepared:	: 05/31/2018	18	An	Analyst: S	SCM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	<b>OVERY</b>	STUDY		
	Chloride by EPA 300	Sample	Spike	Spiked Sample Result	S S	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	<u>C</u>	10]	Added [E]	Result [F]	[G] %	%	%R	%RPD	
Chloride		74.1	249	356	113	249	354	112	1	90-110	20	Х
Lab Batch ID:	3052046	QC- Sample ID:	: 587529-001 S	001 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	05/31/2018	Date Prepared:	: 05/31/2018	18	An	Analyst: A	ARM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	<b>OVERY</b>	STUDY		
	TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	,	Result [F]	%R [G]	%	%В	%RPD	I
Gasoline Rang,	Gasoline Range Hydrocarbons (GRO)	<15.0	666	896	90	866	894	90	0	70-135	20	
Diesel Range (	Diesel Range Organics (DRO)	<15.0	666	626	98	866	086	98	0	70-135	20	

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

•

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

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

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H (A), ZnAc&nde       VOA: Full-List BTEX-MTBE EtOH Oxyg VOH VOAs       It is typically 5-7 Working Days 6         VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:       VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:         VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:       PAHs SIM 8310 8270         TX-1005 DRO GRO MA EPH MA VPH       SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL         Date & Time       OC Pesticides PCBs Herbicides OP Pesticides         Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2         SPLP - TCLP (Metals VOCs SVOCs Pest. Herb, PCBs)	3) 5) Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S),	shed by (Initials and Sign) Date & Time Relinquished to (Initials and Sign)		The Invoid	H32- 446-
Bh 3d 5d 7d 10d 21d Standard       For level II and 10+ Working days for       EDB / DBCP       X TPH       A Otherwise agreed on writing. Reports       Until paid. Samples will be held 30 da	·	Date & Tin		VOA: Full-List BTEX-MTBE EtOH Oxyg VOH VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	
		the second s		EDB/DBCP	Sh 3d 5d 7d 10d 21d Standard TAT for level II and 10+ Working days for level

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Page 93 of 204

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Page 11 of 12

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Received by OCD: 9/16/2022 1:46:10 PM



### **XENCO** Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 05/30/2018 10:30:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 587535	Temperature Measuring device used:R8
Sample Rece	ipt Checklist Comments
#1 *Temperature of cooler(s)?	1.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Date: 05/30/2018

 Checklist completed by:
 July

 Katie Lowe

 Checklist reviewed by:
 Many Moah

 Kelsey Brooks

Date: 06/01/2018



Lea Co, NM

**Project Location:** 

### **Certificate of Analysis Summary 593804** TRC Solutions, Inc, Midland, TX Project Name: Phillips State #1 TB



Date Received in Lab: Fri Jul-27-18 10:35 am **Project Manager:** Kelsey Brooks Report Date: 02-AUG-18

Received by OCD: 9/16/2022 1:46:10 PM

		100 100001		00010002			
	Tab 1a:	595804-001		293804-002			
Analysis Dogustad	Field Id:	SP#1b @ 2'		SP#2b @ 3.5'			
naisanhay sistimut	Depth:	2- ft		3.5- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Jul-25-18 10:00	00.	Jul-25-18 10:05	5	 	
Chloride by EPA 300	Extracted:	Aug-01-18 15:30	:30	Aug-01-18 15:30	0		
	Analyzed:	Aug-01-18 19:58	:58	Aug-01-18 21:19	6		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		212	4.97	181 4	4.96		
TPH by SW8015 Mod	Extracted:	Jul-27-18 16:00	00	Jul-27-18 16:00			
	Analyzed:	Jul-28-18 01:39	39	Jul-28-18 01:59			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0 1	15.0		
Diesel Range Organics (DRO)		175	15.0	112 1	15.0		
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0 1	15.0		
Total TPH		175	15	112	15		

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Page 1 of 12

### Analytical Report 593804

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Phillips State #1 TB

### 02-AUG-18

Collected By: Client





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Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



02-AUG-18

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **593804 Phillips State #1 TB** Project Address: Lea Co, NM

### Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 593804. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 593804 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns Hoah

Kelsey Brooks Project Manager

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

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





### Sample Cross Reference 593804



### TRC Solutions, Inc, Midland, TX

Phillips State #1 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP#1b @ 2'	S	07-25-18 10:00	2 ft	593804-001
SP#2b @ 3.5'	S	07-25-18 10:05	3.5 ft	593804-002



Page 99 of 204

Client Name: TRC Solutions, Inc Project Name: Phillips State #1 TB

Project ID: Work Order Number(s): 593804 Report Date:02-AUG-18Date Received:07/27/2018

### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



### Certificate of Analytical Results 593804



### TRC Solutions, Inc, Midland, TX

Phillips State #1 TB

Chloride		16887-00-6	212	4.97	mg/kg	08.01.18 19.58		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3058608							
Analyst:	SCM		Date Prep:	08.01.18 15.30		Basis: We	t Weight	
Tech:	SCM					% Moisture:		
Analytical Me	ethod: Chloride by EPA	A 300				Prep Method: E30	00P	
Lab Sample Id	d: 593804-001		Date Colle	cted: 07.25.18 10.00		Sample Depth: 2 ft		
Sample Id:	SP#1b @ 2'		Matrix:	Soil		Date Received:07.	27.18 10.3	5

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	% Moisture:		
Analyst: ARM		Date Pre	p: 07.27	18 16.00	E	Basis: We	t Weight	
Seq Number: 3058101								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.28.18 01.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	175	15.0		mg/kg	07.28.18 01.39		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.28.18 01.39	U	1
Total TPH	PHC635	175	15		mg/kg	07.28.18 01.39		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	07.28.18 01.39		
o-Terphenyl		84-15-1	90	%	70-135	07.28.18 01.39		



### Certificate of Analytical Results 593804



### TRC Solutions, Inc, Midland, TX

Phillips State #1 TB

Sample Id:	SP#2b @ 3.5'		Matrix:	Soil		Date Received:07.	27.18 10.3	5
Lab Sample I	d: 593804-002		Date Colle	cted: 07.25.18 10.05		Sample Depth: 3.5	ft	
Analytical M	ethod: Chloride by EPA	. 300				Prep Method: E3	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	08.01.18 15.30		Basis: We	t Weight	
Seq Number:	3058608							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	181	4.96	mg/kg	08.01.18 21.19		1

Analytical Method: TPH by SW801:	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 07.27.	18 16.00	E	Basis: Wet	Weight	
Seq Number: 3058101								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.28.18 01.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	112	15.0		mg/kg	07.28.18 01.59		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.28.18 01.59	U	1
Total TPH	PHC635	112	15		mg/kg	07.28.18 01.59		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	07.28.18 01.59		
o-Terphenyl		84-15-1	86	%	70-135	07.28.18 01.59		



### **Flagging Criteria**



Page 102 of 204

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



ABORATORIES



### **TRC Solutions, Inc**

Phillips State #1 TB

Analytical Method:	Chloride by EPA 30	00						Pr	ep Method	l: E30	0P	
Seq Number:	3058608			Matrix:	Solid				Date Prep	o: 08.0	1.18	
MB Sample Id:	7659579-1-BLK		LCS Sar	nple Id:	7659579-	I-BKS		LCSI	O Sample I	ld: 7659	9579-1-BSD	
	MD	<b>C</b> 1	LCC				<b>.</b>	0/ D D D		<b>T</b> T <b>1</b> /		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30	00						Pı	ep Meth	od: E30	0P	
Seq Number:	3058608			Matrix:	Soil				Date Pr	ep: 08.0	1.18	
Parent Sample Id:	593804-001		MS Sar	nple Id:	593804-00	01 S		MS	D Sample	e Id: 593	804-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	212	249	479	107	470	104	90-110	2	20	mg/kg	08.01.18 20:05	

Analytical Method:	Chloride by EPA 30	00						$\mathbf{P}_{1}$	rep Meth	od: E300	)P	
Seq Number:	3058608			Matrix:	Soil				Date Pr	ep: 08.0	1.18	
Parent Sample Id:	593866-001		MS Sar	nple Id:	593866-00	01 S		MS	D Sample	e Id: 5938	366-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	340	248	597	104	591	101	90-110	1	20	mg/kg	08.01.18 21:39	

Analytical Method:	TPH by S	W8015 M	od							Prep Method	i: TXI	005P	
Seq Number:	3058101				Matrix:	Solid				Date Prep	p: 07.2	7.18	
MB Sample Id:	7659283-1	-BLK		LCS Sar	nple Id:	7659283-	1-BKS		LC	SD Sample	Id: 765	9283-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	924	92	929	93	70-135	1	20	mg/kg	07.27.18 22:18	
Diesel Range Organics (	(DRO)	<15.0	1000	935	94	952	95	70-135	2	20	mg/kg	07.27.18 22:18	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			Limits	Units	Analysis Date	
1-Chlorooctane		88		1	23		123		,	70-135	%	07.27.18 22:18	
o-Terphenyl		92		9	95		95		,	70-135	%	07.27.18 22:18	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100\*(C-A) / B RPD = 200\* | (C-E) / (C+E) | [D] = 100 \* (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.





### **TRC Solutions, Inc**

Phillips State #1 TB

Analytical Method:	TPH by S	SW8015 M	lod						Prep Method: TX1005P				
Seq Number:	3058101				Matrix:	Soil				Date Prep	p: 07.2	7.18	
Parent Sample Id:	593803-02	21		MS Sar	nple Id:	593803-02	21 S		MS	SD Sample	Id: 593	803-021 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	999	862	86	881	88	70-135	2	20	mg/kg	07.27.18 23:18	
Diesel Range Organics	(DRO)	<15.0	999	897	90	926	93	70-135	3	20	mg/kg	07.27.18 23:18	
Surrogate					AS Rec	MS Flag	MSE %Re			limits	Units	Analysis Date	
1-Chlorooctane				1	21		123		7	0-135	%	07.27.18 23:18	
o-Terphenyl				1	01		98		7	0-135	%	07.27.18 23:18	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100\*(C-A) / B RPD = 200\* | (C-E) / (C+E) | [D] = 100 \* (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

### ABORATORIES

# CHAIN OF CUSTODY

Page 1 Of

San An Midi 2. 1 1210

Phoenix, Arizona (480-355-0900)

emp. Thermo. Corr. Factor d shall not assume any responsibility for will be invoiced at \$5 per sample. These	11-ELL		bcooper@trcsolutions.com		
Released to Imaging: 9	9/19/2022 9:	00:49 AM			De

Received by	OCD:	9/16/2022	1:46:10 PM	

Relinquished by: **Relinquished by:**  Relinquished by Sample

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b - 1 S Date Time:

361

Reçeived By:

Received By:

Date Time: That I've

12:00 Péceivéd By:

Received By:

FED-EX / UPS: Tracking # dneel2@concho.com zconder@trcsolutions.com rhaskell@concho.com

Date lime:

Date Time:

**Received By:** 

Custody Seal #

Preserved where applicable

On Ice

Cooler T

3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

TRRP Checklist

Level III Std QC+ Forms Level II Std QC

Data Deliverable Information

Level IV (Full Data Pkg /raw data)

ilowry@trcsolutions.com

Notes

**TRRP Level IV** 

Level 3 (CLP Forms)

UST / RG -411

Next Day EMERGENCY Same Day TAT

2 Day EMERGENCY

X Contract TAT 7 Day TAT 5 Day TAT 6

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> SP#2b @ 3.5' SP#1b @ 2'

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors, it assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed terms will be enforced unless previously negotiated under a fully executed client contract.

SL = Sludge OW =Ocean/Sea Water WI = Wipe O = Oil WW= Waste Water

A = Air

Email:

ilowry@trcsolutions.com

Phone No: 432-466-4450

COG Operating C/O Becky Haskell

voice To:

Involce:

2057 Commerce Drive Midland, TX 79703

Company Name / Branch: TRC Environmental Corporation Company Address:

Project Name/Number: Phillips State #1 TB Project Location: Lea Co, NM

Project Information

**Client / Reporting Information** 

Samplers's Name Joel Lowry Project Contact: Joel Lowry

<u>N</u>

Field ID / Point of Collection

Sample Depth

3.5ft ĭ₽

7/25/2018

10:05

s S

<u>د</u> -

× ×

× ×

7/25/2018 Date

10:00

Time

Matrix

# of bottles

HCI NaOH/Zn Acetate

INO3

12504

VaOH vaHSO4 меон NONE

TPH 8015 M Ext

Chloride E 300

BTEX 8021B

www.xenco.com	Antonio, Texas (210-509-5354) and, Texas (432-704-5251)
<u>www</u>	пю, техаз (2то-зоз-зз Гехаз (432-704-5251)

Xenco Job	

Analytical Information

593804

Matrix Codes

Field Comments

÷.

P = Product SW = Surface water DW = Drinking Water S = Soil/Sed/Solid GW =Ground Water W = Water Received by OCD: 9/16/2022 1:46:10 PM



### **XENCO** Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 07/27/2018 10:35:00 AM Temperature Measuring device used : R8 Work Order #: 593804 Comments Sample Receipt Checklist .3 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6\*Custody Seals Signed and dated? N/A #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No

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

Analyst:

PH Device/Lot#:

#18 Water VOC samples have zero headspace?

Date: 07/27/2018

N/A

Checklist completed by: Connie Hernandez Checklist reviewed by: Kelsey Brooks

Date: 07/30/2018



Figure 1 - View of the affected area, facing northwest.



Figure 2 - View of the affected area, facing west.



Figure 3 - View of portion of the excavated area, facing southwest.



Figure 4 - View of portion of the excavated area, facing north.


Figure 5 - View of portion of the excavated area, facing west.



Figure 6 - View of affected area after remediation activities, facing northwest.



Figure 7 - View of affected area after remediation activities, facing south.

eceived by OCD: 9/16/2022 1:46:10 PM			<b>Page 111 of 2</b>
023 N. French Dr., Hobbs, NM 88240	of New Mexico als and Natural Resources		Form C-141
III S. First St., Artesia, NM 88210	servation Division	Submit I Con	Revised April 3, 2017
000 Rio Brazos Road, Aztec, NM 87410	outh St. Francis Dr.	a a	y to appropriate District Office in coordance with 19,15,29 NMAC.
110 C. St. Econolis Dr. Santa Fr. NMA 97505	a Fe, NM 87505		
Release Notificat	ion and Corrective	Action	
	OPERATOR		ial Report 📃 Final Repor
Name of Company: COG Operating, LLC (OGRID# 229137 Address: 600 West Illinois Avenue, Midland TX 79701	) Contact: Robert McNeil Telephone No.: 432-683-		
Facility Name: Phillips State #001	Facility Type: Tank Bat		
Surface Owner: State Mineral Own	er: State	APIN	o.: 30-025-30956
LOCATI	ION OF RELEASE		
	orth/South Line Feet from the South 1980	East/West Line East	County Lea
Latitude: 32.4744949 La	ongitude: -103.3875351	NAD83	
NATUR	RE OF RELEASE		
Type of Release: Oil and Produced Water	Volume of Release:		Recovered:
Source of Release: Heater Treater	3bbls Oil & 13bbls PW           Date and Hour of Occurre		& Obbls PW Hour of Discovery:
-	11/26/2017	11/26/20	17 9:00am
Was Immediate Notice Given?	If YES, To Whom?		
By Whom?	Date and Hour:		
Was a Watercourse Reached?	If YES, Volume Impactin	g the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*			
n a watercourse was impacted, Describe Funy.*		-	Nov 20 2047
Describe Cause of Problem and Remedial Action Taken.*	By Olivia T	l al 9.59 am	, Nov 28, 2017
The heater treater developed a hole in the bottom of the vessel. The ve	essel will be evaluated for repair	or replacement.	
Describe Area Affected and Cleanup Action Taken.*			
The release remained inside of the unlined earthen berms surrounding rom the release and we will present a remediation work plan to the NI	the heater treater. Concho will h	ave the spill area eva	aluated for any possible impact
hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by	se notifications and perform con	ective actions for rel	eases which may endanger
should their operations have failed to adequately investigate and remed	diate contamination that pose a t	hreat to ground wate	r, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 repo- ederal, state, or local laws and/or regulations.	rt does not relieve the operator of	f responsibility for c	ompliance with any other
	OIL CO	NSERVATION	DIVISION
Signature: Slidden fein		<del>2</del> 2	
Printed Name: Sheldon L. Hitchcock	Approved by Environmental	Specialist:	
itle: HSE Coordinator	Approval Date: 11/28/2	017 Expiration	Date:
-mail Address: slhitchcock@concho.com	Conditions of Approval:		Attached
Date: 11/27/2017 Phone: 575-746-2010	see attached direc	tive	
Attach Additional Sheets If Necessary	1RP-4883		
	INF-4003 nO	Y1733235874	
	pC	Y1733236190	)

# Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_11/27/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4883\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_12/28/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

# APPENDIX C Site Characterization Data

# Received by OCD: 9/16/2022 1:46:10 PM





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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1=NW (quarters are smalles		=SE) (NAD83 UTM in m	eters)	(In feet)
	POD Sub-	QQQ	Dere	X X	•	th Depth Water
POD Number	Code basin Cou	unty 64 16 4 Sec Tws	Rng	X Y	Distance We	ell Water Column
<u>CP 00755</u>	CP LI	E 1 3 4 17 21S	35E 6514			00
				Avera	age Depth to Wat	er:
					Minimum Dep	th:
					Maximum Dep	th:
Record Count: 1						

UTMNAD83 Radius Search (in meters):

Easting (X): 651525.751

Northing (Y): 3594176.26

Radius: 800

\*UTM location was derived from PLSS - see Help

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

10/12/21 11:08 AM

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(						2=NE 3 st to larç	=SW 4=SE gest) (N/	) AD83 UTM in me	eters)	()	n feet)	
POD Number	POD Sub- Code basin C	County		Q 16		Sec	Tws	Rng	x	Y	Distance	-	Depth Water	Water Column
CP 00755	CP	LE	1				21S	-	651427	3594168* 🌑	99	200		
CP 00667	CP	LE		2	3	20	21S	35E	651144	3592857* 🌍	1373	85		
CP 00939 POD1	CP	LE	4	1	2	07	21S	35E	649974	3596760* 🌑	3013	400	165	235
CP 00940 POD1	CP	LE	4	1	2	07	21S	35E	649974	3596760* 🌑	3013	400	165	235
CP 00585 POD1	CP	LE		1	4	30	21S	35E	649963	3591230* 🌍	3335	50		
CP 01801 POD1	CP	LE	3	3	1	30	21S	35E	649052	3591562 🌍	3598	140	48	92
										Avera	ge Depth to	Water:	126 ·	feet
											Minimum	Depth:	48	feet
											Maximum	Depth:	165 <sup>-</sup>	feet
Record Count: 6														

# UTMNAD83 Radius Search (in meters):

Easting (X): 651525.751

Northing (Y): 3594176.26

Radius: 3600

# \*UTM location was derived from PLSS - see Help

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

Page 118 of 204

# APPENDIX D Regulatory Correspondence

From:	Abbott, Sam
То:	ocd.enviro@state.nm.us
Cc:	Llull, Christian; Tavarez, Ike; MorenoFlores, Ezequiel
Subject:	Remediation Confirmation Sampling Notification - nOY1733235874
Date:	Friday, February 25, 2022 10:03:00 AM
Attachments:	image001.png image002.png image003.png image004.png image005.png

Re: Incident ID (n#) nOY1733235874

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must notify the appropriate division district office prior to conducting confirmation sampling. Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that confirmation sampling will be conducted at this site from February 23 through March 4, 2022. I apologize for the delay in the notification.

**NOTE:** If you have any questions regarding this sampling schedule, please contact me.

Thank you,

Sam

Samantha Abbott, PG | Senior Staff Geoscientist

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

**Tetra Tech, Inc.** | *Leading with Science*<sup>®</sup> | OGA 8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | <u>tetratech.com</u>

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f 🗵 in 🞯 Please consider the environment before printing. <u>Read more</u>



# APPENDIX E Laboratory Analytical Data



February 24, 2022

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: PHILLIPS STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/23/22 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celecz D. Keene

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: NSW - A - 1 (H220706-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/24/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					
Surrogate: 1-Chlorooctane	89.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.7	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: ESW - A - 1 (H220706-02)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/24/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	109	10.0	02/23/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	10.7	10.0	02/23/2022	ND					
Surrogate: 1-Chlorooctane	85.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	<i>93.1</i>	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: SSW - A - 1 (H220706-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/24/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.9	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: WSW - A - 1 (H220706-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/24/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	81.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.8	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS- A - 1 (H220706-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/24/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	25.5	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	84.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.2	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS - A - 2 (H220706-06)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	02/24/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	97.9	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	15.3	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	87.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.6	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

   RPD
   Relative Percent Difference

   \*\*
   Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 9/16/2022 1:46:10 PM

Analysis Request of Chain of Custody Record roject Name: county, state) roject Location: lient Name: Receiving Laboratory: omments: voice to: 74,022 elinquished by LAB USE elinquished by elinquished by LAB # r, t 6 K N ESW-A-1 NSW-A-1 WSW-A-1 SSW-A-1 FS-A-2 FS-A-1 Phillips State #1 Conoco Phillips Lea County, New Mexico Cardinal Labs Tetra Tech, Inc. Tetra Tech, Inc. SAMPLE IDENTIFICATION 3 123/22 Date: Date: Date Ime: Ime Ime S S 5 Site Manager: Project # Contact Info: Sampler Signature EAR: Receiv Received by: 2/23/2022 ORIGINAL COPY Received by 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2/23/2022 DATE 2020 SAMPLING ved by: TIME Sam Abbott WATER MATRIX 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 212C-MD-02601 Phone: (512) 739-7874  $\times \times \times \times$ SOIL ×× HCL Date: SI Date: Date PRESERVATIVE HNO<sub>3</sub> etratech 2 ICE × ×× XX × CC-5C. Time: None Time Ime # CONTAINERS 553 FILTERED (Y/N) BTEX 8260B BTEX 8021B  $\times \times \times \times$ × Sample Temperature îv Ç TPH TX1005 (Ext to C35) (Circle) LAB USE TPH 8015M ( GRU - DRO - ORO - MRO) XX × × ×× HAND DELIVERED PAH 8270C **Circle or Specify Method** Total Metals Ag As Ba Cd Cr Pb Se Hg Ħ TCLP Metals Ag As Ba Cd Cr Pb Se Hg ANALYSIS REQUEST TCLP Volatiles REMARKS: TCLP Semi Volatiles X RUSH: Same Day 24 hr Rush Charges Authorized RCI FEDEX Special Report Limits or TRRP Report GC/MS Vol. 8260B / 624 STANDARD GC/MS Semi. Vol. 8270C/625 UPS PCB's 8082 / 608 NORM Page Tracking PLM (Asbestos) Chloride  $\times$   $\times$   $\times$   $\times$   $\times$   $\times$ No TDS Sulfate Chloride General Water Chemistry (see attached list) 48 hr 72 hr Anion/Cation Balance 9 Hold

Released to Imaging: 9/19/2022 9:00:49 AM

Store 1

Page 130 of 204

Page 9 of 9



February 24, 2022

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: PHILLIPS STATE #1

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celecz D. Keene

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: NSW - B - 1 (H220707-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/24/2022	ND	400	100	400	3.92	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.5	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: ESW - B - 1 (H220707-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	97.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	<b>99</b> .7	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: SSW - B - 1 (H220707-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	132	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	22.3	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.8	% 59.5-14	12						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: WSW - B - 1 (H220707-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	93.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.9	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS- B - 1 (H220707-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	19.3	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.4	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS - B - 2 (H220707-06)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	84.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.3	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: NSW - C - 1 (H220707-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	77.5	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	14.6	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	83.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.2	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: ESW - C - 1 (H220707-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: SSW - C - 1 (H220707-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	<i>94.7</i>	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: WSW - C - 1 (H220707-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	54.9	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	88.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.6	% 59.5-14	2						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS- C - 1 (H220707-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	22.1	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS- C - 2 (H220707-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	86.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.8	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

# Sample ID: FS- C - 3 (H220707-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	21.9	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.6	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager


TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/23/2022	Sampling Date:	02/23/2022
Reported:	02/24/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: FS- C - 4 (H220707-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.16	108	2.00	0.318	
Toluene*	<0.050	0.050	02/24/2022	ND	2.13	106	2.00	0.924	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	0.223	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.42	107	6.00	0.794	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	197	98.3	200	0.746	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	203	101	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					
Surrogate: 1-Chlorooctane	87.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.7	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 9/16/2022 1:46:10 PM

Analysis Request of Chain of Custody Record roject Location roject Name: county, state) lient Name eceiving Laboratory: oice to: LAB USE ments: linquished by LAB # nquished by: Iquished 4 6 FS-B-2 SSW-B-1 ESW-B-1 WSW-B-1 FS-B-1 NSW-B-1 WSW-C-1 SSW-C-1 ESW-C-1 NSW-C-1 Phillips State #1 Conoco Phillips Lea County, New Mexico Cardinal Labs Tetra Tech, Inc **Fetra Tech**, Inc. SAMPLE IDENTIFICATION 2/23/22 Date: Date: Date: Time: I Ime: Ime S S 5 Contact Info: Site Manager: Project #: Sampler Signature 'EAR: 2020 ORIGINAL COPY Received by Received 2/23/2022 (eceived by 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2/23/2022 DATE SAMPLING 0 9 D TIME F Sam WATER MATRIX 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 212C-MD-02601 Phone: (512) 739-7874 SOIL  $\times \times \times \times \times \times$ Sam. Abbot Abbott × XX × HCL Date: Date Date: 0 HNO<sub>3</sub> PRESERVATIVE METHOD 2 × × ICE × × 20 × ×× × X Time: Time IIMe None i 2 # CONTAINERS 153 . FILTERED (Y/N) BTEX 8260B BTEX 8021B XX  $\times \times \times$  $\times \times \times \times$ Circle) HAND DELIVERED ample Temperature TPH TX1005 (Ext to C35) P-0.5 TPH 8015M ( GRO - DRO - ORO - MRO) -8° AB USE ONLY  $\times \times \times$ × × × ××  $\times$ × PAH 8270C **Circle or Specify Method** Total Metals Ag As Ba Cd Cr Pb Se Hg 0 0 TCLP Metals Ag As Ba Cd Cr Pb Se Hg ANALYSIS REQUEST TCLP Volatiles REMARKS TCLP Semi Volatiles X RUSH: Same Day Rush Charges Authorized Special Report Limits or TRRP Report FEDEX RCI GC/MS Vol. 8260B / 624 STANDARD GC/MS Semi. Vol. 8270C/625 UPS PCB's 8082 / 608 NORM Page Tracking # PLM (Asbestos)  $\times \times \times \times \times \times \times \times$ Chloride × 24 hr No. Sulfate TDS Chloride General Water Chemistry (see attached list) 48 hr Anion/Cation Balance 9 72 hr Hold

Released to Imaging: 9/19/2022 9:00:49 AM

\_\_\_\_\_ Page 17 of 18

# Received by OCD: 9/16/2022 1:46:10 PM

Project Location: (county, state) Analysis Request of Chain of Custody Record Receiving Laboratory: roject Name: lient Name: voice to: omments: elinquished by 726 707 LAB USE elinquished by: LAB # pauished ħ 4 N M 5 FS-C-4 FS-C-3 FS-C-2 FS-C-1 Phillips State #1 Conoco Phillips Lea County, New Mexico Cardinal Labs Tetra Tech, Inc **Fetra Tech, Inc.** SAMPLE IDENTIFICATION N 123/22 Date: Date: Date: Time Time: Ime 5 S T Project #: Site Manager: Contact Info: Sampler Signature: ORIGINAL COPY Received by Received Received by 2/23/2022 2/23/2022 2/23/2022 2/23/2022 2020 DATE SAMPLING 9 TIME Sam Abbott WATER MATRIX 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 212C-MD-02601 Phone: (512) 739-7874  $\times \times \times \times$ SOIL Date: HCL Date: Date 0 PRESERVATIVE HNO<sub>3</sub> × × × ICE × Time Time: E.S. None Ime i # CONTAINERS 5 FILTERED (Y/N) BTEX 8021B BTEX 8260B 6.0.5°  $\times \times \times$ × Circle) HAND DELIVERED TPH TX1005 (Ext to C35) 6 ple Temperature TPH 8015M ( GRO - DRO - ORO - MRO) AB USE in ONLY XXX X PAH 8270C **Circle or Specify Method** Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg N ANALYSIS REQUEST TCLP Volatiles REMARKS: TCLP Semi Volatiles X RUSH: Same Day Rush Charges Authorized FEDEX RCI Special Report Limits or TRRP Report GC/MS Vol. 8260B / 624 STANDARD GC/MS Semi. Vol. 8270C/625 UPS PCB's 8082 / 608 NORM Page Tracking #: PLM (Asbestos)  $\times \times \times$ Chloride 24 hr X No TDS Chloride Sulfate General Water Chemistry (see attached list) 48 hr Anion/Cation Balance N Q. 72 hr Hold

**Released to Imaging: 9/19/2022 9:00:49 AM** 

Page 18 of 18



February 28, 2022

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: PHILLIPS STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/25/22 14:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celecz D. Keene

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: SSW - B - 1 (H220745-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	1.97	98.6	2.00	6.45	
Toluene*	<0.050	0.050	02/26/2022	ND	1.96	97.8	2.00	6.70	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	1.89	94.7	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	5.89	98.2	6.00	5.10	
Total BTEX	<0.300	0.300	02/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	200	99.9	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	162	81.0	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					
Surrogate: 1-Chlorooctane	100	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	105	59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 9/16/2022 1:46:10 PM



Hold

# Page 152 of 204

Page 4 of 4



February 28, 2022

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: PHILLIPS STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/25/22 14:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celecz D. Keene

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: FS - A - 2 (H220746-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	1.97	98.6	2.00	6.45	
Toluene*	<0.050	0.050	02/26/2022	ND	1.96	97.8	2.00	6.70	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	1.89	94.7	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	5.89	98.2	6.00	5.10	
Total BTEX	<0.300	0.300	02/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	200	99.9	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	162	81.0	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					
Surrogate: 1-Chlorooctane	92.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.4	% 59.5-14	2						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: ESW - A - 1 (H220746-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	1.97	98.6	2.00	6.45	
Toluene*	<0.050	0.050	02/26/2022	ND	1.96	97.8	2.00	6.70	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	1.89	94.7	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	5.89	98.2	6.00	5.10	
Total BTEX	<0.300	0.300	02/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	200	99.9	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	162	81.0	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					
Surrogate: 1-Chlorooctane	97.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	105 9	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	PHILLIPS STATE #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02601	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

#### Sample ID: WSW - A - 2 (H220746-03)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	1.97	98.6	2.00	6.45	
Toluene*	<0.050	0.050	02/26/2022	ND	1.96	97.8	2.00	6.70	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	1.89	94.7	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	5.89	98.2	6.00	5.10	
Total BTEX	<0.300	0.300	02/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	200	99.9	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	162	81.0	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					
Surrogate: 1-Chlorooctane	96.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	105	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 9/16/2022 1:46:10 PM

# Page 158 of 204



]

# APPENDIX F Photographic Documentation



















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# APPENDIX G Waste Manifests

Received by OCD: 9/16/2022 1:46:10 P	PM			<b>Page 170 of 204</b>
R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	
Facility: CRI				
Product / Service		Quantity L	Inits	
Contaminated Soil (RCRA Exemp	Contaminated Soil (RCRA Exempt) 12.00 yards			
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Ha	esource Conserve described was enerated from o e which is non- gulations, 40 CF n is attached to	vation and Recovery Act (RCRA) and iste is: il and gas exploration and production hazardous that does not exceed the m 'R 261.21-261.24 or listed hazardous v demonstrate the above-described was	operations and inimum standar vaste as defined te is non-hazard	are not mixed with non-exempt waste ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature  Customer Approval		R360 Representative Si	gnature	
	тні	S IS NOT AN INVOID	E!	
Approved By:		Date:		

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Received by OCD: 9/16/2022 1:46:10 1	PM				Page 171 of 204
RBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1277292 O6UJ9A000HH0 2/21/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI					
Product / Service		Qu	antity U	nits	
Contaminated Soil (RCRA Exemp	t)		12.00	yards	
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide description above)					
Driver/ Agent Signature		R360 Represent	ative Si	gnature	
Customer Approval	THI	S IS NOT AN IN	voic	:E!	
Approved By:		Dat	e:		

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Received by OCD: 9/16/2022 1:46:1 RB360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #:	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	Page 172 of 204 700-1277465 O6UJ9A000HH0 2/22/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quan	ntity Units	
Contaminated Soil (RCRA Exer	Contaminated Soil (RCRA Exempt) 18.00 yards			
RCRA Non-Exempt: Oil field w characteristics established in RCRA	Resource Conser- bove described was generated from o aste which is non- regulations, 40 CF tion is attached to	vation and Recovery Act (RCR, aste is: il and gas exploration and prod hazardous that does not exceed FR 261.21-261.24 or listed hazar demonstrate the above-describ	uction operations and the minimum standar dous waste as defined ed waste is non-hazar	are not mixed with non-exempt waster rds for waste hazardous by 1 in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representat	ive Signature	
			1	
Customer Approval		- J		
	THI	S IS NOT AN INV	OICE!	
Approved By:		Date:		

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Received by OCD: 9/16/2022 1:46:10	) <i>PM</i>			Page 173 of 204		
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	30956		
Facility: CRI						
Product / Service		Quar	ntity Units			
Contaminated Soil (RCRA Exemp	ot)	12.00 yards				
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide description above)						
Driver/ Agent Signature		R360 Representat	tive Signature			
Customer Approval Approved By:	THI	S IS NOT AN INV		M.		

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Received by OCD: 9/16/2022 1:46:10	PM			Page 174 of 204		
RB360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well #: Field: Field #: Rig: County			
Facility: CRI						
Product / Service		Qua	ntity Units			
Contaminated Soil (RCRA Exemp	ot)		18.00 yards			
1988 regulatory determination, the above described waste is:         X       RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _       RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         _       MSDS Information						
Customer Approval			的现在分词 使自己相同			
	THIS IS NOT AN INVOICE!					
Approved By: Date:						

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R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #: CR Ordered by: IKE AFE #: PO #: Manifest #: 000 Manif. Date: 2/2	TAVAREZ 2/2022 NABB PARTNERS E	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1277499 O6UJ9A000HH0 2/22/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quanti	ty Units	
Contaminated Soil (RCRA Exe	mpt)	15	5.00 yards	
RCRA Non-Exempt: Oil field v	waste which is non-haza regulations, 40 CFR 20	rdous that does not exceed th 51.21-261.24 or listed hazardo onstrate the above-described	ne minimum standar ous waste as defined waste is non-hazar	in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
amended. The following document MSDS Information RCRA	A Hazardous Waste Ana	R369 Representativ		nde description above)
amended. The following document	A Hazardous Waste Ana			Ide description above)
amended. The following document MSDS Information RCRA	A Hazardous Waste Ana			
amended. The following document MSDS InformationRCRA Driver/ Agent Signature	A Hazardous Waste Ana		e Signature	Inde description above)
amended. The following document MSDS InformationRCRA Driver/ Agent Signature	A Hazardous Waste Ana	R360 Representativ	e Signature	

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**Released to Imaging: 9/19/2022 9:00:49 AM** 

Received by OCD: 9/16/2022 1:46:10	9 <b>PM</b>			Page 176 of 204
R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	30956
Facility: CRI				
Product / Service		Quan	tity Units	
Contaminated Soil (RCRA Exemp	ot)		18.00 yards	
Generator Certification Statemer I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentation MSDS Information _ RCRA H Driver/ Agent Signature	esource Conservove described was enerated from o te which is non- gulations, 40 CF on is attached to	vation and Recovery Act (RCRA iste is: il and gas exploration and produ hazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-described	uction operations and the minimum standar dous waste as defined ed waste is non-hazar edge Other (Prov	are not mixed with non-exempt waster rds for waste hazardous by l in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Customer Approval				
Approved By:	тні	S IS NOT AN INV Date:	$\langle \rangle$	

**Released to Imaging: 9/19/2022 9:00:49** AM

Received by OCD: 9/16/2022 1:46:10 I	PM			Page 177 of 204
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Field: Field #: Rig: County	700-1277536 O6UJ9A000HH0 2/22/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service	<b>公元</b> 與24年後的	Quant	ity Units	
Contaminated Soil (RCRA Exemp	t)	1:	2.00 yards	
1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA H	enerated from o e which is non- gulations, 40 CF n is attached to	il and gas exploration and product hazardous that does not exceed t R 261.21-261.24 or listed hazard demonstrate the above-described	he minimum standar ous waste as defined d waste is non-hazar	ds for waste hazardous by l in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representation	e Signature	
Customer Approval	はないない意味		and the second second	
	тні	S IS NOT AN INV	OICE!	
Approved By:		Date:		

Released to Imaging: 9/19/2022 9:00:49 AM

<b>Received by OCD: 9/16/2022 1:46:10</b>	PM			<b>Page 178 of 204</b>	
R3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	30956	
Facility: CRI					
Product / Service		Qua	ntity Units		
Contaminated Soil (RCRA Exemp	t)		18.00 yards		
I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: <u>X</u> RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste <u>RCRA Non-Exempt:</u> Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): <u>MSDS Information</u> RCRA Hazardous Waste Analysis <u>Process Knowledge</u> Other (Provide description above) <b>Driver/ Agent Signature</b> <b>R360 Representative Signature</b>					
Customer Approval					
	101	S IS NOT AN IN	VOICE!		
Approved By:		Date	»:	Z	

Received by OCD: 9/16/2022 1:46:10	) <b>PM</b>				Page 179 of 204				
R360 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #. Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1277588 O6UJ9A000HH0 2/22/2022 CONOCOPHILLIP 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)	S				
Facility: CRI									
Product / Service Quantity Units									
Contaminated Soil (RCRA Exemp	t)	1							
I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)									
Driver/ Agent Signature R360 Representative Signature									
Customer Approval									
THIS IS NOT AN INVOICE!									
Approved By: Date:									

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**Released to Imaging: 9/19/2022 9:00:49 AM** 

Received by OCD: 9/16/2022 1:46:10 1	PM				Pag	e 180 of 204			
R3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card #	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig:	700-1277766 O6UJ9A000HH0 2/23/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING				
	Job Ref #			County	LEA (NM)				
Facility: CRI									
Product / Service		Quantity Units							
Contaminated Soil (RCRA Exempt)			16.00 yards						
1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information _ RCRA H Driver/ Agent Signature Hugg Z M 31 Customer Approval	enerated from o e which is non- gulations, 40 CF n is attached to	il and gas exploration and hazardous that does not ex R 261.21-261.24 or listed demonstrate the above-de	ceed the m nazardous v scrifted was nowledge	inimum standar vaste as defined ste is non-hazard Other (Prov	ds for waste hazardous b in 40 CFR, part 261, sul dous. (Check the approp	y opart D, as			
THIS IS NOT AN INVOICE!									
Approved By:			Date:						
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Received by OCD: 9/16/2022 1:46:10	PM			Page 181 of 204					
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R3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generato Generato Well Ser. Well Ser. Well Nam Well #: Field: Field #: Rig: County	r #: #:    30956					
Facility: CRI									
Product / Service			Quantity Units						
Contaminated Soil (RCRA Exemp	ot)		16.00 yards						
_ RCRA Non-Exempt: Oil field was characteristics established in RCRA re	te which is non- gulations, 40 CF on is attached to	hazardous that does not ex FR 261.21-261.24 or listed demonstrate the above-de e Analysis Process Kr	acceed the minimum star hazardous waste as def scribed waste is non-ha	ined in 40 CFR, part 261, subpart D, as azardous. (Check the appropriate items):					
11119: 2 1131			<i>P</i> O						
Customer Approval			and the second second second						
	TH	IS IS NOT AN I	NVOICE!						
Approved By:			Date:						

Received by OCD: 9/16/2022 1:46:10	• <b>PM</b>				Page 182 of 204
R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	S	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1277795 O6UJ9A000HH0 2/23/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI					
Product / Service			Quantity U	nits	
Contaminated Soil (RCRA Exempt	t)		16.00	yards	
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes get RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Ha	source Conserv re described was nerated from oi e which is non-h ulations, 40 CF n is attached to o	vation and Recovery Act ste is: l and gas exploration an nazardous that does not of R 261.21-261.24 or listed demonstrate the above-d	d production exceed the mi l hazardous w escribed was	operations and nimum standar vaste as defined te is non-hazard	are not mixed with non-exempt waster ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Repres	entative Si	gnature	
Hugo 7 M.	31				
Customer Approval				and the second	
Approved By:	THI	S IS NOT AN	INVOIC	EI	
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Customer #: CONOCOPHILLIPS Customer #: CRI2190 Ordered by: IKE TAVAREZ AFE #: CGRU200 Permian Basin  Ticket #: 700-1277820 Bid #: OGUJ9A000H10 Date: 2232022 Generator #: Well Sen: #: 30956 Well Sen: #: 30956 Mell Sen: #: 30956 Mell Sen: #: 30956 Driver HUGO Truck #: M31 Card #    Parmian Basin  Ticket #: 001 Mell Sen: #: 30956 Driver HUGO Truck #: M31 Card #  Well Sen: #: 30956 Well Sen: #: 001 Field: Bid #: 001 Field: County: LEA (NM)    Particle Sen: Concord Public Destination (Card #) Job Ref #  Cuantity Units County: LEA (NM)    Particle Sen: Concord Mell Senter (Contaminated Soil (RCRA Exempt)  16:00 yards    Contaminated Soil (RCRA Exempt)  16:00 yards    Prevention Continuation of Waste Status A RCRA Newspire Of Field Horne Source Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: A RCRA Non-Exempt: Of Field Horne Source Conservation and Recovery Act (BCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, store to waste size: A RCRA Non-Exempt: Of Field waste spectrated from of and gas exploration and production operations and are not mixed with non-exempt waste amended. The following documentation is attached to demonstrate the above-described waste is in on-hazardous by characteristics established in RCRA Hazardous Waste Analysis _ Process Knowledg _ Other (Provide description above)    Driver / Agent Signature  RCRA Narazdous Waste Analysis _ Process Knowledg _ Other (Provide description above)    Driver / Agent Signature  RCRA Non-Exempt _ Date:	Received by OCD: 9/16/2022 1:46:10 1	PM				1	Page 183 of 204
Truck # M31 Card # Job Ref #  Field #: Rig: NON-DRILLING County LEA (NM)    Facility: CRI  Ouantity Units    Product / Service  Quantity Units    Contaminated Soil (RCRA Exempt)  16.00 yards    Generator Certification Statement of Waste Status  Increby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste amended. The following documentation is attached to demonstrate the above-described waste is inon-hazardous that does not exceed the minimum standards for waste hazardous by characteristic established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as a defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is inon-hazardous. (Check the appropriate items): MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)    Driver/ Agent Signature  R360 Representative Signature    Human 2 M31  Mathematical Mathematinde Mathmatematical Mathematical Mathematical Mathemat	SOLUTIONS	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler:	CRI2190 IKE TAVAREZ 014 2/23/2022 MCNABB PARTNE		Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #:	O6UJ9A000HH0 2/23/2022 CONOCOPHILLIF 30956 PHILLIPS STATE	°S
Product / Service  Quantity Units    Contaminated Soil (RCRA Exempt)  16.00 yards    Generator Certification Statement of Waste Status  Incredy certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:    X  RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil Field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)    Driver/ Agent Signature  R360 Representative Signature    Hugo a M31  Customer Approval		Truck # Card #			Field #: Rig:		
Contaminated Soil (RCRA Exempt)  16.00 yards    Generator Certification Statement of Waste Status  16.00 yards    I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:  X    X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)    Driver/ Agent Signature  R360 Representative Signature    Hugge 2 M 31  Customer Approval	Facility: CRI						
Generator Certification Statement of Waste Status    I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:    X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste a RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):	Product / Service	网络小利家语		Quantity	Units		
I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) Driver/ Agent Signature _ Hugo 2 M31 Customer Approval THIS IS NOT AN INVOICE!	Contaminated Soil (RCRA Exemp	t)		16.00	) yards		
THIS IS NOT AN INVOICE!	_ RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA Ha Driver/ Agent Signature Hugge 2 M31	e which is non- ulations, 40 CF n is attached to	hazardous that does no R 261.21-261.24 or liste demonstrate the above Analysis Process	t exceed the m ed hazardous described wa Knowledge	ninimum standar waste as defined ste is non-hazard Other (Prov	ds for waste hazardou in 40 CFR, part 261, dous. (Check the appr	us by subpart D, as opriate items):
Approved By:		THI	S IS NOT AN		CE!		
	Approved By:	8		Date:			

<b>Received by OCD: 9/16/2022 1:46:10</b>	PM				Page 18	4 of 204
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	E G G V V S F F F F	Ticket #: Bid #: Date: Generator: Generator #: Vell Ser. #: Vell Name: Vell Name: Vell #: Tield: Tield #: Rig: County	700-1277850 O6UJ9A000HH0 2/23/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)	
Facility: CRI						
Product / Service			Quantity Un	its		
Contaminated Soil (RCRA Exemp	t)		16.00 ya	ards		
1988 regulatory determination, the abov <u>X</u> RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature <u> MJJ</u>	merated from o e which is non- julations, 40 CF n is attached to	il and gas exploration an hazardous that does not o R 261.21-261.24 or listed demonstrate the above-o Analysis Process F	exceed the mini I hazardous was lescribed waste	mum standar ste as defined is non-hazard Other (Prov	ds for waste hazardous by in 40 CFR, part 261, subpart I dous. (Check the appropriate it	D, as
Customer Approval				Not Realling		i Cessie
	THI	S IS NOT AN	INVOICE	E!		
Approved By:			Date:			

<b>Received by OCD: 9/16/2022 1:46:10</b>	PM					Page 185 of 204
R360	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler:	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #:	700-1277890 O6UJ9A000HH0 2/23/2022 CONOCOPHILLIF 30956 PHILLIPS STATE 001	
Permian Basin	Driver Truck # Card # Job Ref #	HUGO M31		Field: Field #: Rig: County	NON-DRILLING LEA (NM)	
Facility: CRI						
Product / Service			Quantity L	Jnits		
Contaminated Soil (RCRA Exemp	ot)		16.00	yards		
X RCRA Exempt: Oil Field wastes ge _ RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio _ MSDS Information _ RCRA H Driver/ Agent Signature 	te which is non- gulations, 40 CF on is attached to azardous Waste	hazardous that does no TR 261.21-261.24 or list demonstrate the above Analysis Process	t exceed the m ed hazardous v described was Knowledge	inimum standar waste as defined ste is non-hazar Other (Prov ignature	rds for waste hazardo d in 40 CFR, part 261 dous. (Check the app	ous by , subpart D, as propriate items):
Approved By:			Date:			

Received by OCD: 9/16/2022 1:46:10 RECEIVER ONMENTAL SOLUTIONS Permian Basin	Customer: C Customer #: C Ordered by: I AFE #: PO #: Manifest #: C Manif. Date: 2 Hauler: M Driver H	KE TAVAREZ	5	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1278115 O6UJ9A000HH0 2/24/2022 CONOCOPHILL 30956 PHILLIPS STATI 001 NON-DRILLING LEA (NM)	PS
Facility: CRI						
Product / Service			Quantity U	nits	<b>这事。这些法国法国的特</b> 制	
Contaminated Soil (RCRA Exemp	t)		16.00 y	vards		
1988 regulatory determination, the abov <u>X</u> RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	nerated from oil e which is non-ha gulations, 40 CFR n is attached to do	and gas exploration and azardous that does not e . 261.21-261.24 or listed emonstrate the above-de Analysis Process K	xceed the mir hazardous wa escribed wast nowledge	nimum standar aste as defined e is non-hazaro Other (Prov	ds for waste hazard in 40 CFR, part 26 dous. (Check the ap	ous by 1, subpart D, as propriate items):
Driver/ Agent Signature	131	R360 Repres	entative Sig	jnature		
Customer Approval						
	THIS	S IS NOT AN	INVOIC	E!		
Approved By:			Date:	11-11-11-11-11-11-11-11-11-11-11-11-11-		

<b>Received by OCD: 9/16/2022 1:46:10</b>	PM		Page 187 of 204
R3600 ENVIRONMENTAL SOLUTIONS	Customer: CONOCOPHILL Customer #: CRI2190 Ordered by: IKE TAVAREZ AFE #: PO #: Manifest #: M31 Manif. Date: 2/24/2022 Hauler: MCNABB PART Driver HUGO Truck # M31 Card # Job Ref #	Bid #: Date: Generator: Generator #: Well Ser. #: Well Name:	700-1278151 O6UJ9A000HH0 2/24/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI		County	
Product / Service		Quantity Units	
Contaminated Soil (RCRA Exempt	t)	16.00 yards	
Generator Certification Statement	of Wasta Status		
X RCRA Exempt: Oil Field wastes gei _ RCRA Non-Exempt: Oil field waste characteristics established in RCRA regi amended. The following documentation _ MSDS Information _ RCRA Ha Driver/ Agent Signature 	e which is non-hazardous that does ulations, 40 CFR 261.21-261.24 or is attached to demonstrate the ab- izardous Waste Analysis Proc	not exceed the minimum standar listed hazardous waste as defined ove-described waste is non-hazard	ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
	THIS IS NOT A	AN INVOICE!	
Approved By:		Date:	

Received by OC.	D: 9/16/.	2022 1:46:1	0 PM							P	age 188 of 204
RC ENVIRONMENT SOLUTIO	AL	50	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #:	CRI2190 IKE TAV 019	'AREZ	S		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name:	700-1278 06UJ9A0 2/24/2022 CONOCO 30956 PHILLIPS	00HH0 PHILLIPS	
Permian Basir			Manif. Date: Hauler: Driver Truck # Card # Job Ref #		B PARTNE	RS		Well #: Field: Field #: Rig: County	NON-DRI LEA (NM)	LLING	
Facility: CRI											
Product / Serv	vice				<b>Well</b> 2018	Q	uantity U	nits			
Contaminated	Soil (R	CRA Exem	pt)				16.00	/ards			
	Cell	pН	CI Cor	nd. %S	olids T	DS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00 0.0	00	0		0.00	0.00			

## **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster \_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_\_\_MSDS Information \_\_\_\_RCRA Hazardous Waste Analysis \_\_\_\_Process Knowledge \_\_\_\_Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Heres I M31	
Customer Approval	

## THIS IS NOT AN INVOICE!

Approved By:

Date:

Received by OCD: 9/16/2022 1:46:10	) PM		Page 189 of 204
R3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: CONOCOPHILLIPS Customer #: CRI2190 Ordered by: IKE TAVAREZ AFE #: PO #: Manifest #: 020 Manif. Date: 2/24/2022 Hauler: MCNABB PARTNE Driver HUGO Truck # M31 Card # Job Ref #	Bid #: Date: Generator: Generator # Well Ser. #: Well Name:	30956
Facility: CRI Product / Service		0	
Contaminated Soil (RCRA Exemp	4)	Quantity Units	
Contaminated Soli (RCRA Exemp	(t)	16.00 yards	
RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature 	gulations, 40 CFR 261.21-261.24 or list n is attached to demonstrate the above azardous Waste Analysis Process	ed hazardous waste as defined -described waste is non-hazar Knowledge Other (Pro esentative Signature	d in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
			<b>\</b>
Approved By:		Date:	t d

**Released to Imaging: 9/19/2022 9:00:49** AM

Received by OCD: 9/16/2022 1:46:10 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin Facility: CRI	0 PM Customer: CONOCOPHILLIPS Customer #: CRI2190 Ordered by: IKE TAVAREZ AFE #: PO #: Manifest #: 021 Manif. Date: 2/24/2022 Hauler: MCNABB PARTNER Driver HUGO Truck # M31 Card # Job Ref #	Bid #: Date: Generator: Generator #: Well Ser. #: Well Name:	
Product / Service		Quantity Units	
	41	Quantity Units	
Contaminated Soil (RCRA Exemp	ic)	16.00 yards	
_ RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA Ha	ve described waste is: enerated from oil and gas exploration a se which is non-hazardous that does not gulations, 40 CFR 261.21-261.24 or liste n is attached to demonstrate the above- azardous Waste Analysis Process	nd production operations and exceed the minimum standar ed hazardous waste as defined described waste is non-hazar Knowledge Other (Prov	are not mixed with non-exempt waster ds for waste hazardous by l in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/Agent Signature	R360 Repre	esentative Signature	
Customer Approval			
	THIS IS NOT AN		
Approved By:		Date:	

<b>Received by OCD: 9/16/2022 1:46:10</b>	РМ				Pa	ige 191 of 204
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	1	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1278473 O6UJ9A000HH0 2/25/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)	
Facility: CRI						
Product / Service			Quantity	/ Units		
Contaminated Soil (RCRA Exemp	t)		16.	00 yards		
1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge _ RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA Ha Driver/ Agent Signature MMM F M 3	enerated from o e which is non- gulations, 40 CF n is attached to	il and gas exploration a hazardous that does no 'R 261.21-261.24 or list demonstrate the above	t exceed the ed hazardou -described v Knowledge	minimum standar is waste as definec waste is non-hazar e Other (Pro	ds for waste hazardous in 40 CFR, part 261, su dous. (Check the approp	by ıbpart D, as
Customer Approval		的計算的設計時間的影響				
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Approved By:			Date:			

Received by OCD: 9/16/2022 1:46:10 <b>Received by OCD:</b> 9/16/202 1:46:10 <b>Received by OCD:</b> 9/16/10 <b>Received by OCD:</b> 9/16/202 1:46:10 <b>Received by OCD</b>	Customer: CONOCOPHILLIPS Customer #: CRI2190 Ordered by: IKE TAVAREZ AFE #: PO #: Manifest #: 023 Manif. Date: 2/25/2022 Hauler: MCNABB PARTNEF Driver JOE Truck # M81 Card # Job Ref #	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: S Well #: Field: Field #: Rig: County	
Product / Service		Quantity Units	
Contaminated Soil (RCRA Exemp	t)	18.00 yards	
Contaminated Soli (KCKA EXemp	y	to.uu yatus	
RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation	ve described waste is: enerated from oil and gas exploration and e which is non-hazardous that does not gulations, 40 CFR 261.21-261.24 or listen is attached to demonstrate the above- azardous Waste Analysis Process	nd production operations and exceed the minimum standar d hazardous waste as defined described waste is non-hazar	are not mixed with non-exempt wastereds for waste hazardous by I in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
		semanve olghature	
Customer Approval			
Approved By:	THIS IS NOT AN	INVOICE!	ł

Received by OCD: 9/16/2022 1:46:10 RECEIVER SOLUTIONS Permian Basin Facility: CRI	Customer: CONOCOPHILLIP: Customer #: CRI2190 Ordered by: IKE TAVAREZ AFE #: PO #: Manifest #: 024 Manif. Date: 2/25/2022 Hauler: MCNABB PARTNE Driver HUGO Truck # M31 Card # Job Ref #	Bid #: O6UJ Date: 2/25/2 Generator: CON Generator #: Well Ser. #: 30956 Well Name: PHILI Well Name: PHILI Field: Field #:	DCOPHILLIPS S LIPS STATE DRILLING
Product / Service		Quantity Units	
Contaminated Soil (RCRA Exemp	it)	16.00 yards	
Generator Certification Statement I hereby certify that according to the Ref 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Hat Driver/ Agent Signature	esource Conservation and Recovery A ve described waste is: enerated from oil and gas exploration te which is non-hazardous that does no gulations, 40 CFR 261.21-261.24 or lis n is attached to demonstrate the above azardous Waste Analysis Proces	and production operations and are not of exceed the minimum standards for ted hazardous waste as defined in 40 ( e-described waste is non-hazardous. (0	mixed with non-exempt waste waste hazardous by CFR, part 261, subpart D, as Check the appropriate items):
Customer Approval			_
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Approved By:		Date:	

<b>Received by OCD: 9/16/2022 1:46:10</b>	PM					Page 194 of 204
R3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Mame: Well #: Field: Field #: Rig: County	700-1278524 O6UJ9A000HH0 2/25/2022 CONOCOPHILLI 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)	PS
Facility: CRI						
Product / Service			Quantity L	Jnits		
Contaminated Soil (RCRA Exemp	ot)		18.00	yards		
Generator Certification Statement I hereby certify that according to the Ref 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Here	esource Conserv ve described wa enerated from o e which is non- gulations, 40 CF n is attached to	vation and Recovery A ste is: il and gas exploration hazardous that does no R 261.21-261.24 or lis demonstrate the above	and production of exceed the m ted hazardous v e-described was	operations and inimum standar waste as defined ste is non-hazard	are not mixed with rds for waste hazardo l in 40 CFR, part 26 dous. (Check the ap	non-exempt waste ous by l, subpart D, as propriate items):
Driver/ Agent Signature	Free Carlos	R360 Repr	esentative S	ignature	and the second second	
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Approved By:			Date			
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<i>Received by OCD: 9/16/2022 1:46:10</i>	PM			Page 1	95 of 204
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #:	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1278546 O6UJ9A000HH0 2/25/2022 CONOCOPHILLIPS	
Facility: CRI					
Product / Service		Qua	ntity Units		
Contaminated Soil (RCRA Exemp	t)		16.00 yards		
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg	ve described wa merated from oi e which is non-l julations, 40 CF	ste is: il and gas exploration and proc hazardous that does not exceed R 261.21-261.24 or listed haza	duction operations and d the minimum standard ardous waste as defined	are not mixed with non-exer ds for waste hazardous by	npt waste
_ MSDS Information _ RCRA Ha	n is attached to	demonstrate the above-describ Analysis _ Process Knowl	bed waste is non-hazarc ledge Other (Prov	lous. (Check the appropriate	t D, as items):
MSDS InformationRCRA Ha	n is attached to	demonstrate the above-describ	bed waste is non-hazarc ledge Other (Prov	lous. (Check the appropriate	t D, as items):
_ MSDS Information _ RCRA Ha	n is attached to azardous Waste	demonstrate the above-describ Analysis _ Process Knowl	bed waste is non-hazarc ledge Other (Prov	lous. (Check the appropriate	t D, as items):
_ MSDS Information _ RCRA Ha	n is attached to azardous Waste	demonstrate the above-describ Analysis _ Process Knowl	bed waste is non-hazarc ledge Other (Prov	lous. (Check the appropriate	t D, as items):
_ MSDS Information _ RCRA Ha	n is attached to azardous Waste	demonstrate the above-describ Analysis _ Process Knowl	bed waste is non-hazarc ledge Other (Prov t <b>ive Signature</b>	lous. (Check the appropriate	t D, as items):
_ MSDS Information _ RCRA Ha	n is attached to azardous Waste	demonstrate the above-describ Analysis Process Knowl R360 Representa	bed waste is non-hazarc ledge Other (Prov t <b>ive Signature</b>	lous. (Check the appropriate ide description above)	t D, as items):

Received by OCD: 9/16/2022 1:46:10 1	PM				Page 196 of 204
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card #	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig:	
	Job Ref #			County	LEA (NM)
Facility: CRI					
Product / Service			Quantity U	nits	
Contaminated Soil (RCRA Exempt	t)		18.00		
X RCRA Exempt: Oil Field wastes get _ RCRA Non-Exempt: Oil field waste characteristics established in RCRA regu amended. The following documentation _ MSDS Information _ RCRA Ha	ulations, 40 CFI	Azardous that does not R 261.21-261.24 or listed demonstrate the above-	exceed the mi hazardous w lescribed wast	nimum standard aste as defined	ds for waste hazardous by in 40 CFR, part 261, subpart D, as
Driver/ Agent Stgnature		R360 Repres	entative Sig	gnature	
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Customer Approval					
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R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1278564 O6UJ9A000HH0 2/25/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING
			County	LEA (NM)
Facility: CRI				
Product / Service		Quantity	Units	
Contaminated Soil (RCRA Exempt	t)	16.00	0 yards	
Generator Certification Statement I hereby certify that according to the Res 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ger RCRA Non-Exempt: Oil field waste characteristics established in RCRA regu	source Conserv e described was nerated from oil which is non-h alations, 40 CFI is attached to c	ation and Recovery Act (RCRA) and te is: and gas exploration and production azardous that does not exceed the n R 261.21-261.24 or listed hazardous	n operations and a ninimum standard waste as defined	are not mixed with non-exempt wasters for waster hazardous by in 40 CFR, part 261, subpart D, as
amended. The following documentation MSDS Information RCRA Ha	zardous Waste	Analysis _ Process Knowledge	_ Other (Provi	de description above)
The following documentation	zardous Waste	Analysis _ Process Knowledge	_ Other (Provi	de description above)
_ MSDS Information _ RCRA Ha	zardous Waste	Analysis _ Process Knowledge R360 Representative S	_ Other (Provi	de description above)
_ MSDS Information _ RCRA Ha	zardous Waste	Analysis _ Process Knowledge	_ Other (Provi	de description above)

Received by OCD: 9/16/2022 1:46:10 1	PM			Pag	e 198 of 204
R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field #: Rig: County		
Facility: CRI					
Product / Service		Qua	antity Units		
Contaminated Soil (RCRA Exempt	:)		18.00 yards		
I hereby certify that according to the Re: 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes gen RCRA Non-Exempt: Oil field waste characteristics established in RCRA regu amended. The following documentation MSDS Information _ RCRA Ha Driver/ Agent Signature	e described was nerated from oi which is non-h ulations, 40 CFl is attached to o	and gas exploration and pro azardous that does not exceet 261.21-261.24 or listed haza demonstrate the above-descri	duction operations and ad the minimum standard ardous waste as defined bed waste is non-hazard ledge Other (Prov	are not mixed with non-e ls for waste hazardous by in 40 CFR, part 261, sub	exempt wasto
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Customer Approval		(	<u> </u>	*	
Customer Approval			House AN PERSON AND AND AND AND AND AND AND AND AND AN		
	THIS	S IS NOT AN IN	OICE!		
Approved By:		Date			

Received by OCD: 9/16/2022 1:46:10	PM			Page 199 of 204
R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1278612 O6UJ9A000HH0 2/25/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quantity U	Inits	
Contaminated Soil (RCRA Exempt	t)	16.00		
Generator Certification Statement	of Waste Sta	itus		
1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ger _ RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA Ha Driver/ Agent Signature	nerated from oi which is non-h ulations, 40 CFI is attached to o	l and gas exploration and production nazardous that does not exceed the mi R 261.21-261.24 or listed hazardous w demonstrate the above-described was	nimum standard aste as defined te is non-hazard Other (Prov	ls for waste hazardous by in 40 CFR, part 261, subpart D, as ous. (Check the appropriate items)
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_ Tur z (1)	1			
Customer Approval				
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Received by OCD: 9/16/2022 1:46:10 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #:	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	Page 200 of 204 700-1278631 O6UJ9A000HH0 2/25/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service	Here The Lang	Qua	ntity Units	
Contaminated Soil (RCRA Exemption	t)		18.00 yards	
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes get RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	e described was nerated from oil which is non-h ulations, 40 CFI is attached to c	ste is: I and gas exploration and pro- lazardous that does not excee & 261.21-261.24 or listed haza demonstrate the above-descrift	duction operations and d the minimum standard rdous waste as defined bed waste is non-hazard	are not mixed with non-exempt wasted ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous (Check the appropriate items):
Driver/ Agent Signature	· · · · · · · · · · · · · · · · · · ·	R360 Representa	tive Signature	
Ale				
Customer Approval				
	THIS	S IS NOT AN INV	/OICE!	
Approved By:		Date		

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<b>Received by OCD: 9/16/2022 1:46:10</b>	PM			Page 201 of 204
R360	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date:	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #:	30956
Permian Basin	Hauler: Driver Truck #	MCNABB PARTNERS JOE M81	Well Name: Well #: Field: Field #:	PHILLIPS STATE 001
	Card # Job Ref #		Rig: County	NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quantit	v Units	
Contaminated Soil (RCRA Exemp	t)		.00 yards	
Driver/ Agent Signature	ulations, 40 CFI	26121-26124 or listed hazardou	e minimum standard is waste as defined waste is non-hazard e Other (Provi	Is for waste hazardous by in 40 CFR, part 261, subpart D, as
Customer Approval				
	THIS	S IS NOT AN INVO	ICE!	
Approved By:		Date:		

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<b>Received by OCD: 9/16/2022 1:</b>	46:10 PM			Page 202 of 204
R360	Customer #: 0 Ordered by: 1 AFE #: PO #: Manifest #: 0 Manif. Date: 2	KE TAVAREZ 033 2/28/2022	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name:	
Permian Basin	Driver H	ICNABB PARTNERS IUGO II31	Well #: Field: Field #: Rig:	001
	Job Ref #		County	NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quan	ntity Units	
Contaminated Soil (RCRA E	xempt)		16.00 yards	
X RCRA Exempt: Oil Field wa RCRA Non-Exempt: Oil fiel characteristics established in RCI	the Resource Conservat he above described waste stes generated from oil a d waste which is non-haz RA regulations, 40 CFR is entation is attached to de RA Hazardous Waste A	ion and Recovery Act (RCR/ e is: and gas exploration and produ- zardous that does not exceed 261.21-261.24 or listed hazard monstrate the above-describe nalysis Process Knowle R360 Representati	uction operations and a the minimum standard dous waste as defined ed waste is non-hazard age Other (Provi we Signature OICE!	in 40 CFR, part 261, subpart D, as
		Date:		

Received by OCD: 9/16/2022 1:46:10	PM			Pag	ge 203 of 204
R360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Field: Field #: Rig: County	700-1279227 O6UJ9A000HH0 2/28/2022 CONOCOPHILLIPS 30956 PHILLIPS STATE 001 NON-DRILLING LEA (NM)	
Facility: CRI					
Product / Service		Qua	ntity Units		
Contaminated Soil (RCRA Exemp	t)		18.00 yards		
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Ha	nerated from oi e which is non-h ulations, 40 CFI n is attached to o	ste is: l and gas exploration and pro azardous that does not excee R 261.21-261.24 or listed haza demonstrate the above-descri	duction operations and d the minimum standard ardous waste as defined bed waste is non bazard	are not mixed with non-e: ds for waste hazardous by in 40 CFR, part 261, subp	xempt wast
Driver/ Agent Signature		R360 Representa	tive Signature		
Har		26			
Customer Approval					
	THIS	S IS NOT AN INV	OICE!		
Approved By:		Date	:		

Released to Imaging: 9/19/2022 9:00:49 AM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
	Action Number:
Midland, TX 79701	144164
	Action Type:
	[C-141] Release Corrective Action (C-141)

## CONDITIONS

Created By		Condition Date
bhall	None	9/19/2022

Page 204 of 204

Action 144164