Received by OCD: 4/14/2023 9:07:40 AM



June 17, 2020

Bradford Billings Hydrologist District 2 Artesia Oil Conservation Division Santa Fe, NM 87505

Subject: Closure Letter Report ConocoPhillips 1RP-3216 Wilder Federal #29-5H Frac Tank Release Lea County, New Mexico

Mr. Billings:

On behalf of ConocoPhillips (COP), Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips Wilder Federal #29-5H well (API No. 30-025-41509) is located approximately 42 miles southeast of Carlsbad in Lea County, New Mexico (Figure 1). The well is located in the Public Land Survey System (PLSS) Unit Letter A, Section 29, Township 26 South, Range 32 East, and its coordinates are 32.018863°, -103.691442°. The release addressed in this report occurred from a clean brine frac tank that was located on the well lease pad (the Site).

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), on July 19, 2014 a release was discovered at the clean brine frac tank located at the Wilder Federal #29-5H well. The onsite supervisor was notified of significant standing water in the tank's secondary "Muscle Wall" and poly-liner containment, as well as moist ground in an arched pattern in front of the secondary containment. Investigation revealed the cause of the release was a 4-inch hose that was not plugged off, and it is believed that the valve, and the hose it connected to it, was the source of the leak.

The total volume of the release into secondary containment was estimated at approximately 20 barrels (bbls) of brine water. Approximately 5 to 10 bbls of the brine water leaked through one or more tears in the secondary containment's poly-liner, saturating the soil outside of the secondary containment. The affected area under and around the secondary containment was estimated at 800 square feet (ft) and was contained within a dirt berm tertiary containment on the lease pad. During the initial response actions, a vacuum truck was called to remove the standing water from inside the secondary containment, estimated between 10 and 15 bbls. The New Mexico Oil Conservation District (NMOCD) was notified of the release on July 21, 2014, and subsequently assigned the Site the Remediation Permit (RP) number 1RP-3216.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. However, the Site is located in an area of high karst potential.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are no water wells located in the PLSS section where the Site is located. Based on data from all sections within the township and range, the average depth to groundwater is 239 ft. The site characterization data is shown in Attachment B.

Bradford Billings NMOCD June 17, 2020

REGULATORY FRAMEWORK

Based upon the release footprint 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 high potential for karst at the Site, the proposed RRALs for the Site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASESSMENT ACTIVITIES

According to the C-141, the release footprint on the ground surface was estimated to be approximately 800 square feet. The C-141 stated that remediation would begin as soon as work on location ended. According to the NMOCD well files, the well was ready to produce January 14, 2015. On February 1, 2015, two soil samples were collected from the release area footprint and submitted to Xenco Laboratories in Odessa, Texas to be analyzed for chloride via EPA Method 300 and TPH via EPA Method SW8015 Mod. A copy of the analytical report is included as Attachment C.

The analytical results are summarized in Table 1. Analytical results associated with both soil samples were below the respective RRALs listed in Table 1 of the NMOCD Spill Rule (19.15.29 NMAC), and no further remediation occurred at the Site.

At the request of COP, Tetra Tech personnel conducted a visual Site Assessment in May 2020 to evaluate current conditions at the Site. The entire well pad location was inspected and an area matching the description in the C-141 was identified as the formerly impacted area. Photographic documentation from the visual assessment is included as Attachment D. A list of field observations describing the Site follow:

- The clean brine frac tank has been removed from the well pad.
- No staining was noted in the vicinity of the approximate release point.

CONCLUSION

Based on review of laboratory analytical results, and the visual Site Assessment at the Site, COP respectfully requests closure for this release. The final C-141 form is enclosed in Attachment A.

Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at <u>christian.llull@tetratech.com</u>.

Sincerely,

Christian M. Llull Project Manager Tetra Tech, Inc.

FIGURES



TABLES

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SITE ASSESSMENT WILDER FEDERAL #29-5H FRAC TANK RELEASE LEA COUNTY, NM 1RP-3216

Released to Imaging: 4/17/2023 11:46:46 AM

					Г	PH ³	
Sample ID	Matrix	Sample Date	Chloride ¹	GRO (C ₆ - C ₁₂)	DRO (C ₁₀ - C ₂₈)	ORO (C ₂₈ - C ₄₀)	ТРН (C ₃ - C ₄₀)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
#1	Soil	02/01/15	83	21.2	21	1	42.2
#2	Soil	02/01/15	253.0	17.9	31	1	48.9

NOTES:

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

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ATTACHMENT A C-141 Forms

AUG 0 8 2014

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Releas Name of Company: CONOCO Phillips Address: Facility Name: Wilder Federal #29-5H	State of Energy Minerals Oil Conser 1220 South Santa Fe se Notification	New Mex and Natura vation Div 5t. France b, NM 875 h and Co OPERA <u>Contact: Jef</u> <u>Telephone I</u> Facility Typ	ico I Resources vision is Dr. 05 Drrective A FOR TOR TM. English No.: (432) 688-0 pe: Well Site	Submi	it l Copy ac	R to appropria cordance wi	Form C-1 tevised August 8, 2 ate District Office ith 19.15.29 NMA	41 511 AC.
Surface Owner	Mineral Owner				API No	.: 30-025-4	41509	
	LOCATIO	N OF RE	LEASE					
Unit Letter Section Township Range F 29 R32E 6 NENE T265	eet from the North 60' North	/South Line	Feet from the 850'	East/We East	est Line	County Lea		
La	titude_ <u>32.01896 N</u>	Longitude	-103.691382 V	<u>v_</u>				
NATURE OF RELEASE								
Type of Release: Brine Water Source of Release: "Frac" tank	Volume of Date and H	Release: est 20b Iour of Occurrence	bls V ce: I	Volume F Date and	Recovered: e	est. 10-15 bbls	_	
Was Immediate Nation Circa?	19-July-20	14, 08:00hrs	The second Division of Divisio	19-July-2	014, 09:00h	rs		
was immediate Notice Given?	II YES, IC	i whom? Jim Ar	nos or BLI	ivi and Di	r. 10mas Ob	eramg of NMOC		
By Whom? Jeff English, CONOCO HSE Coordina	Date and H	lour: 21-July-201	4 <u>, 0</u> 9:45h	rs.				
Was a Watercourse Reached?	If YES, V	olume Impacting	the Watero	course.				
If a Watercourse was Impacted, Describe Fully.*-NA								
AUG 7 2014 Describe Cause of Problem and Remedial Action Taken.* Con July 19, 2014 at 9:00 A.M. supervisor notified there was significant standing water in the clean-brine tank secondary containment and moist ground in an arched pattern in front of the secondary containment, which was itself inside another dirt berm (tertiary Containment) beyond the Secondary "muscle wall" and poly-liner containment. A vacuum truck was called to remove the remainder of the standing water that could be removed from inside the secondary containment. Investigation revealed the cause and mechanism of the spill was an unseen hole/tear in the poly-liner containment. It was found that one end of a 4" hose was not plugged off and it is believed that the valve.								
and the hose it connected to it, was the source of the leak. Estimate of spill into containment was 20BBLs. Unknown quantity leaking through the holes in the secondary containment. The vacuum truck is estimated to have collected between 10 and 15 barrels of brine water with estimates for the brine water leaking through the holes in the secondary containment being 5-10BBLs. Describe Area Affected and Cleanup Action Taken.* Initially a vacuum truck was called to remove the remainder of the standing water that could be removed from inside the secondary containment. The area of ground affected beneath the secondary containment is estimated to be ~800 sq-ft. Remediation will begin as soon as work on location ends.								
I hereby certify that the information given above is regulations all operators are required to report and/o public health or the environment. The acceptance of should their operations have failed to adequately in or the environment. In addition, NMOCD acceptant federal, state, or local laws and/or regulations. Signature:	true and complete to t or file certain release n of a C-141 report by th vestigate and remediat ice of a C-141 report d	he best of my otifications a e NMOCD m e contaminat loes not reliev	knowledge and t nd perform corre- larked as "Final F ion that pose a the re the operator of OIL CON	understand ctive action Report" doo reat to grou responsibi	I that purs ns for rel es not rel und wate ility for c	suant to NM eases which ieve the oper r, surface wa compliance v DIVISIC	OCD rules and may endanger rator of liability ater, human health with any other DN	h
Printed Name: Jcff M. English		Approved by	Environmental S	Specialist:				

Title: CONOCO HSE Coordinator	Approval Date: 8-7-19 Expiration	Date: 10-9-19
E-mail Address: jeff.english@contractor.conocophillips.com Date: 7-August-2014 Phone: (505) 658-0051	Conditions of Approval: Site Syster agent	Attached \Box /RP-3216
* Attach Additional Sheets If Necessary	Deluate & rustinge area as p	- ogrid 217817
	Nonoco gurden . Subul	NTO 1421 952242
	Find C-141 by 10-9-14	PT01421 952485

HOBBS OCD

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Page 6

Oil Conservation Division

Incident ID	nto1421952242
District RP	1RP-3216
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: Charles R. Beauvais II	Title: Environmental Coordinator	
Signature: <i>Charles R. Beauvais 99</i>	Date: 6/16/2020	
email: charles.r.beauvais@conocophillips.com	Telephone: 575-988-2043	

OCD Only

Received by:

Date:

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: Hall	Date:4/17/2023
Printed Name: Brittany Hall	Title: Environmental Specialist

ATTACHMENT B Site Characterization Data

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=P0 been O=orp C=the closed	DD has replaced haned, file is d)	ł, (quar (quar	ters	s ai s ai	re î	1=N\ smal	N 2=N lest to	IE 3=SV largest	N 4=SE)) (NAD8	33 UTM in meters)		(In feet)
		POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code	basin (County	64	16	4	Sec	Tws	Rng	х	Y	Well	Water	Column
<u>C 02271</u>	R	CUB	LE		2	3	21	26S	32E	624449	3544111* 🌍	150	125	25
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010* 🌍	270	250	20
<u>C 02274</u>		CUB	LE	2	1	2	31	26S	32E	621742	3541730* 🌍	300	295	5
<u>C 02323</u>		С	LE	3	2	3	21	26S	32E	624348	3544010* 🌍	405	405	0
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985 🌍	850		
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045 🌍	280	180	100
C 03829 POD1		CUB	LE	3	3	1	06	26S	32E	620628	3549186 🌍	646	350	296
C 04209 POD1		CUB	LE	2	3	3	06	26S	32E	620903	3548619 🌍	360	155	205
C 04209 POD2		С	LE	2	3	3	06	26S	32E	620818	3548657 🌍	340	155	185
											Average Depth to	Water:	239 f	eet
											Minimum	n Depth:	125 f	eet
											Maximum	Depth:	405 f	eet

Record Count: 9

PLSS Search:

Township: 26S Range: 32E

*UTM location was derived from PLSS - see Help

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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.

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Water Bodies



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ATTACHMENT C Laboratory Analytical Report





26-FEB-15

Project Manager: **Dave Williamson Conoco Phillips-Midland** 3300 North A Street Midland, TX 79705

Reference: XENCO Report No(s): 501860 Wilder Federal 29-5H Project Address:

Dave Williamson:

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) 501860. 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. 501860 will be filed for 60 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.

Kins boah

 Kelsey Brooks

 Project Manager

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Sample Cross Reference 501860



Conoco Phillips-Midland, Midland, TX

Wilder Federal 29-5H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
#1	S	02-01-15 12:00		501860-001
#2	S	02-01-15 12:00		501860-002





CASE NARRATIVE



Client Name: Conoco Phillips-Midland Project Name: Wilder Federal 29-5H

Project ID: Work Order Number(s): 501860 Report Date: 26-FEB-15 Date Received: 02/05/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 501860 Conoco Phillips-Midland, Midland, TX Project Name: Wilder Federal 29-5H



Project Id:		Froject Nan	ie: whiter reaeral 29-211		
Contact: Dave Williamson				Date Received in Lab:	Thu Feb-05-15 01:05 pm
Proiset I acation:				Report Date:	26-FEB-15
				Project Manager:	Kelsey Brooks
	Lab Id:	501860-001	501860-002		
Auchinic Docusedad	Field Id:	#1	#2		
naisanhay sistimut	Depth:				
	Matrix:	SOIL	SOIL		
	Sampled:	Feb-01-15 12:00	Feb-01-15 12:00		
Inorganic Anions by EPA 300/300.1	Extracted:	Feb-09-15 14:00	Feb-09-15 14:00		
	Analyzed:	Feb-09-15 23:42	Feb-10-15 00:05		
	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		83.0 10.7	253 21.7		
Percent Moisture	Extracted:				
	Analyzed:	Feb-05-15 17:00	Feb-05-15 17:00		
	Units/RL:	% RL	% RL		
Percent Moisture		6.55 1.00	7.78 1.00		
TPH By SW8015 Mod	Extracted:	Feb-06-15 07:00	Feb-06-15 07:00		
	Analyzed:	Feb-06-15 11:05	Feb-06-15 11:26		
	Units/RL:	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		21.2 16.1	17.9 16.2		
C12-C28 Diesel Range Hydrocarbons		21.0 16.1	31.0 16.2		
C28-C35 Oil Range Hydrocarbons		ND 16.1	ND 16.2		
Total TPH		42.2 16.1	48.9 16.2		

Murs Moal Kelsey Brooks Project Manager

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

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Final 1.000

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Flagging Criteria



Page 21 of 34

- 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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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave. Phoenix AZ 85040

1 none	1 6/1
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Phone

Fax



Form 2 - Surrogate Recoveries

Project Name: Wilder Federal 29-5H

Work Or Lab Batch	r ders : 5 0186 #: 961237	50, 501860 Sample: 501860-001 / SMP	Batcl	Project ID h: 1 Matrix	: : Soil		
Units:	mg/kg	Date Analyzed: 02/06/15 11:05	SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		109	100	109	70-135	
o-Terpheny	1		55.8	50.0	112	70-135	
Lab Batch	#: 961237	Sample: 501860-002 / SMP	Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/06/15 11:26	SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane	1 milly (CS	97.3	99.7	98	70-135	
o-Terphenv	1		48.9	49.9	98	70-135	
Lab Batch	#: 961237	Sample: 668120-1-BLK / B	LK Batcl	h: 1 Matrix	: Solid	10 155	
Units:	mg/kg	Date Analyzed: 02/06/15 08:58	SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[10]		
1-Chlorooct	tane		116	100	116	70-135	
o-Terpheny	1		60.1	50.0	120	70-130	
Lab Batch	#: 961237	Sample: 668120-1-BKS / B	KS Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 02/06/15 08:38	SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		127	100	127	70-135	
o-Terpheny	1		60.1	50.0	120	70-130	
Lab Batch	#: 961237	Sample: 668120-1-BSD / B	SD Batel	h: 1 Matrix	: Solid	1 1	
Units:	mg/kg	Date Analyzed: 02/06/15 08:18	SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane	-	121	100	121	70-135	
o-Terpheny	1		61.6	50.0	123	70.120	

* 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

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



Form 2 - Surrogate Recoveries

Project Name: Wilder Federal 29-5H

Work O	rders : 50186	0, 501860		Project ID:			
Lab Batcl	h #: 961237	Sample: 501868-002 S / MS	S Batcl	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 02/06/15 10:03	SU	RROGATE RI	ECOVERY	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlaraa	atana	Analytes	117	00.9	117	70.125	
1-Chiorood	ctane		11/	99.8	11/	/0-135	
o-Terphen	yl		61.0	49.9	122	70-130	
Lab Batcl	h #: 961237	Sample: 501868-002 SD / N	ASD Batcl	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 02/06/15 10:23	SU	RROGATE RI	ECOVERY	STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chloroov	ctana		125	00.8	125	70.125	
1-01101000	ciane		123	99.8	125	/0-135	
o-Terphen	yl		63.4	49.9	127	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

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

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F	2	3		
7	7	2		
E	-	9		

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BS / BSD Recoveries

Project Name: Wilder Federal 29-5H



Work Order #: 501860, 50	1860							Proj	ect ID:			
Analyst: JUM		Da	ite Prepar	ed: 02/09/201	5			Date A	nalyzed: (02/09/2015		
Lab Batch ID: 961449	Sample: 688242-1-1	BKS	Batcl	n#: 1					Matrix: S	solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	Y	
Inorganic Anions b	y EPA 300/300.1	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			8	[C]		3	Result [F]	5				
Chloride		<2.00	40.0	42.7	107	40.0	41.4	104	б	90-110	20	
Analyst: ARM		Da	te Prepar	ed: 02/06/201	5			Date A	nalyzed: (02/06/2015		
Lab Batch ID: 961237	Sample: 668120-1-1	BKS	Batcl	n#: 1					Matrix: S	solid		
Units: mg/kg			BLAN	K /BLANK &	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	Ŋ	
TPH By SW.	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]	[0]	Ε	Result [F]	[6]				
C6-C12 Gasoline Range Hydi	ocarbons	<15.0	1000	925	93	1000	985	66	9	70-135	35	

35

70-135

ŝ

112

1120

1000

107

1070

1000

<15.0

C12-C28 Diesel Range Hydrocarbons

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

Final 1.000

XENCO Laboratories Proje	Form 3 - MS ect Name: Wilder F	rm 3 - MS Recoveries me: Wilder Federal 29-5H				
Work Order #: 501860						
Lab Batch #: 961449			Proj	ect ID:		
Date Analyzed: 02/09/2015	Date Prepared: 02/	09/2015	Α	nalyst: J	IUM	
QC- Sample ID: 501717-001 S	Batch #:	1	Γ	Matrix: S	Soil	
Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	1110	2000	2470	68	80-120	X
Lab Batch #: 961449	ľ		· · ·			
Date Analyzed: 02/09/2015	Date Prepared: 02/	09/2015	Α	.nalyst: J	IUM	
QC- Sample ID: 501719-003 S	Batch #:	1	I	Matrix: S	Soil	
Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	337	800	1060	90	80-120	

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

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Y	ator
Y	hor
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Form 3 - MS / MSD Recoveries

Project Name: Wilder Federal 29-5H



TPH By SW8015 Mod	Parent	•1	Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
	Sample	Spike	Result	Sample	Spike	Spiked Sample	Dup.	RPD	Limits	Limits	Flag
	Result	Added	[C]	%R	Added	Result [F]	%R	%	%R	%RPD	1
Analytes	[A]	[B]		[D]	Ε	1	[6]				
C6-C12 Gasoline Range Hydrocarbons	18.3	1080	998	91	1080	1030	94	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.2	1080	1120	104	1080	1190	110	9	70-135	35	

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

Final 1.000





Project Name: Wilder Federal 29-5H

Work Order #: 501860

Lab Batch #: 961239			Project I	D:	
Date Analyzed: 02/05/2015 17:00	Date Prepared: 02/05/201	5 Ana	lyst: WRU		
QC- Sample ID: 501854-001 D	Batch #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	e Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	6.94	6.80	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



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Final 1.000

Received by OCD: 4/14/2023 9:07:40 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Conoco Phillips-Midland

Date/ Time Received: 02/05/2015 01:05:00 PM

Work Order #: 501860

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Comments

Temperature Measuring device used :

Sample Receipt Checklist	
#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?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mmg Hoah Kelsey Brooks

Date: 02/05/2015

Checklist reviewed by:

Date:

Client ID# 501860-001

Client ID#



SUMMENTAL TECHNOLOGIES, INC Analytical Laboratories	Summit Environmental Technologi 3310 Cuyahoga Falls, Ohio TEL: (330) 253-8211 FAX: (330) 25 Website: <u>http://www.setu</u>	ies, Inc. Win St. 9 44223 3-4489 tek.com	WO# Date Reported Company Address	 #: 1502056 d: 2/16/201 7: Xenco 1 s: 12600 V Odessa 	54 15 Labora West I- TX 7	tories 20 East 9765		
Lab ID# Collected Analyt	te Result	Units	Received Project# Matrix	l: 2/6/201 ≠: 102619 Method	5 4 DF	RL	Run	Analyst
001 2/1/2015 Sodium Ratio	Adsorption 1.41		Solid	In-House	1		2/12/2015	VVK
Lab ID# Collected Analyt	e Result	Units	Matrix	Method	DF	RL	Run	Analyst

501860-002	002	2/1/2015	Sodium Adsorption	2.12	Non-	In-House	1	2/12/2015	VVK
			Ratio		Potable				
					Water				

ATTACHMENT D Photographic Documentation



TETRA TECH, INC.	DESCRIPTION	View facing south of site signage identification information.	1
212C-MD-01796	SITE NAME	Wilder Federal 29-5H Frac Tank Release	5/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View facing south-southwest of site well pad and well equipment in background.	2
	SITE NAME	Wilder Federal 29-5H Frac Tank Release	5/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View facing northeast of vicinity of former frac tank location on well pad.	3
	SITE NAME	Wilder Federal 29-5H Frac Tank Release	5/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View facing southwest of wellhead location on well pad.	4
	SITE NAME	Wilder Federal 29-5H Frac Tank Release	5/8/2020

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:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	207829
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	4/17/2023

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Action 207829