



April 22, 2021

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

Bureau of Land Management, CFO
620 E. Green St.
Carlsbad, NM 88220

Re: Closure Request Report
King Tut Federal 001H (1.22.21)
Tracking # NAPP2103630209
GPS: 32.19428, -103.71959
Unit Letter D Section 30, Township 24 South, Range 32 East
Lea County, New Mexico

To Whom it May Concern,

COG Operating, LLC (COG) is pleased to submit the following closure report in response to a release that occurred at the King Tut Federal 001H located in Unit Letter D Section 30, Township 24 South, Range 32 East in Lea County, New Mexico. The spill site coordinates are 32.19428, -103.71959.

BACKGROUND

The release was discovered on January 22, 2021 and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The release was caused by a flow line rupture in the pasture. Approximately nineteen (19) barrels of produced water was released and no barrels of fluid were recovered. The initial C-141 is shown in Appendix A.

GROUNDWATER AND REGULATORY

According to the New Mexico Office of State Engineer (NMOSE) and the United States Geological Survey (USGS) website no water wells were found within one (1) mile of the release area.

A borehole was drilled within a ½ mile of the release to a depth of fifty-five (55) feet below surface and open for 72 hrs. After 72 hours, the borehole was gauged for presence of groundwater and no water was present. (Drilling log and map of location in Appendix B).

A risk-based evaluation and site determination was performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production facilities in New Mexico (effective August 14, 2018). According to the site character evaluation, the release area is located in low karst. No other receptors (water wells, playas, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site.

The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Low Karst	50-100 ft

Delineation and Closure Criteria:

Remedial Action Levels (RALs)	
Chlorides	10,000 mg/kg
TPH (GRO and DRO and MRO)	2,500mg/kg
Benzene	10 mg/kg
Total BTEX	50 mg/kg

INITIAL ASSESSMENT

- The remediation was done at risk. Excavation was guided by field screens.

REMEDIAL ACTIONS

- The impacted area was excavated to a depth of four (4) ft BGS.
- Table 1 shows the sample depths and analytical results.
- All the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation soil samples were taken from bottom and sidewalls of the excavation per NMAC 19.15.29.
- The site was backfilled with clean “like” material.
- The analytical data shown in Table 1 show that the release area meets NMOCD closure criteria (NMAC 19.15.29.12(E) Table I) and NMAC 19.15.29.13(D)(1).

SAMPLING AND BACKFILLING

Once excavated, soil samples were collected from the sidewalls to confirm the removal of impacted soil greater than 600 mg/kg of chlorides. Composite bottom and sidewall samples were collected every 200 square feet, to be representative of the release area. The confirmation samples (CS-1 thru CS-14) and sidewall samples (SW-1 thru SW-7) results meet NMOCD closure criteria.

Once completed, the excavated area was backfilled with non-contaminated material with concentrations below 600 mg/kg of chlorides.

REQUEST FOR CLOSURE

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the King Tut Federal 001H release that occurred on January 22, 20201 (Tracking # NAPP2103630209). The Final C-141 is included in Appendix B.

Should you have any questions or concerns on the closure report, please do not hesitate to contact me.

Sincerely,

Jacqui Harris
Environmental Coordinator
Jacqui.Harris@conocophillips.com

Maps

COG Operating LLC

King Tut Federal 001H (1.22.21)
Lea County, NM
NMOCD Tracking #NAPP2103630209

Site and Sample Map

Legend

- Closure Sample
- Excavated to 4'
- ▲ Sidewall Sample

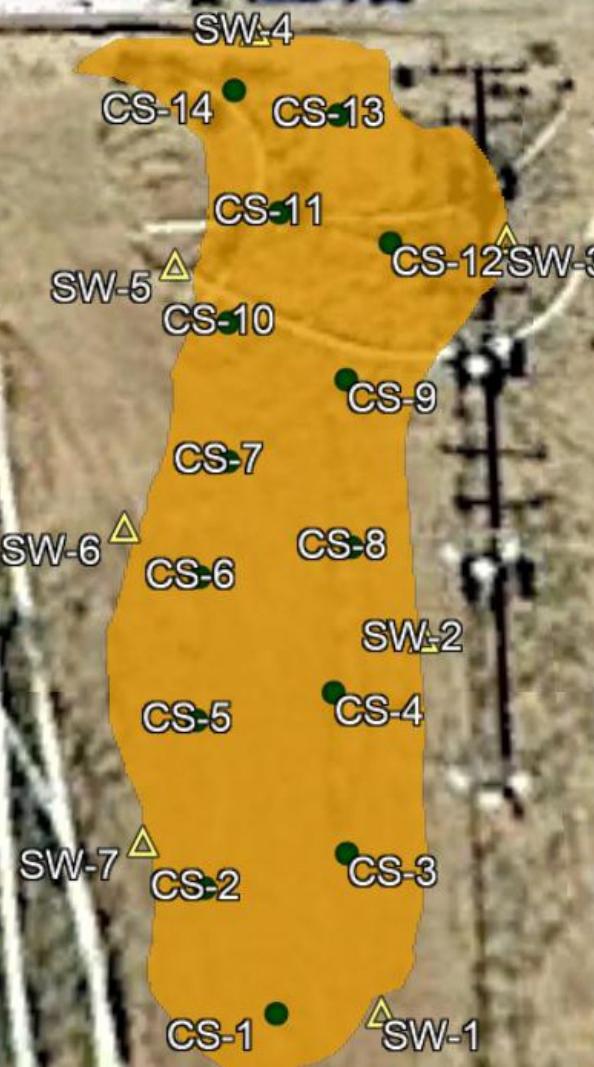
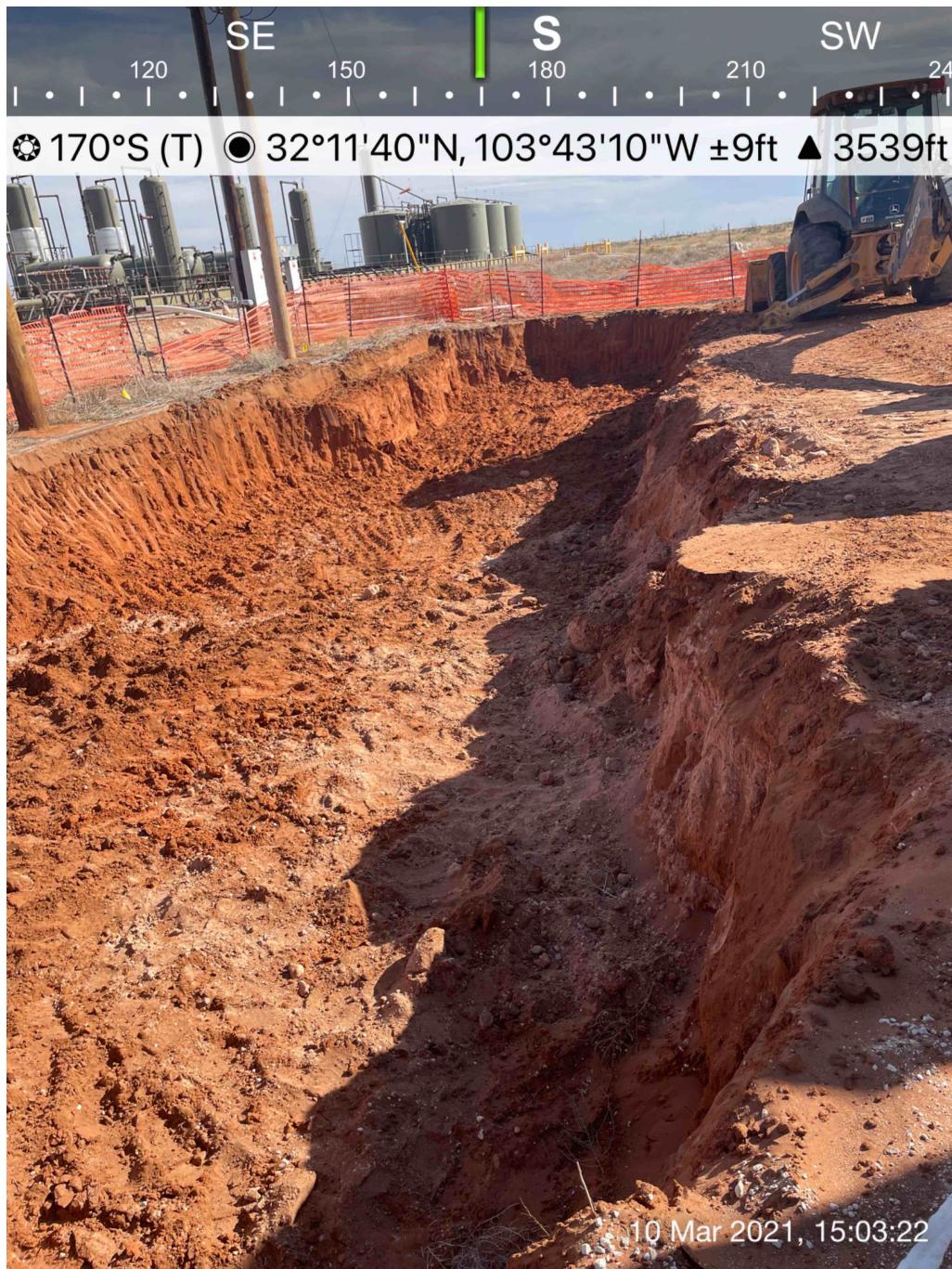


Table of Analytical Data

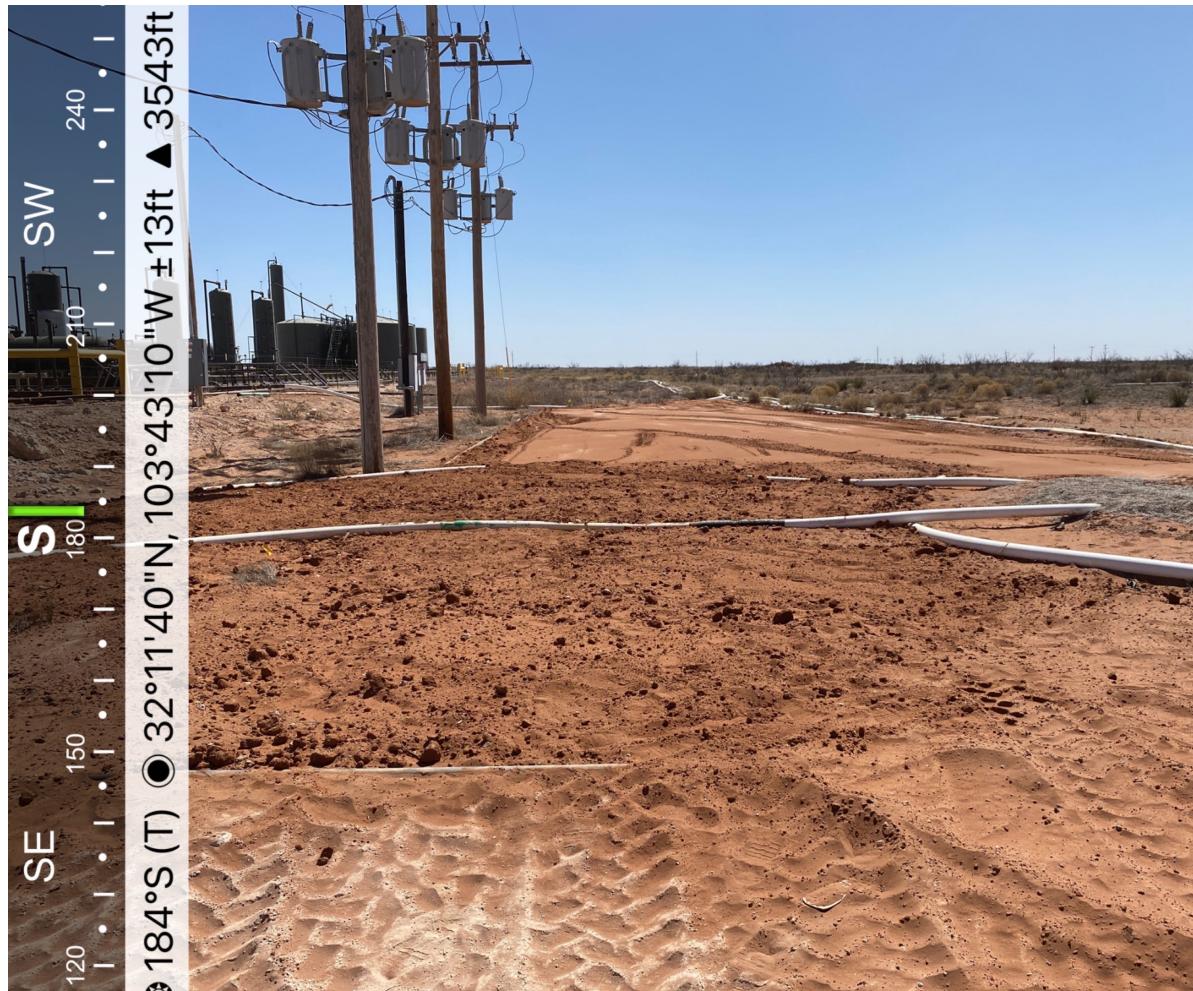
Table 1
COG Operating LLC.
King Tut Federal 001H (1.22.21)
Lea County, New Mexico

Sample ID	Depth (ft)	Sample Date	Soil Status		TPH (mg/kg)						Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)			
			In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO						
Average Depth to Groundwater (ft) - 51'-100'												Low Karst				
<i>NMOCRD RAL Limits (mg/kg)</i>					-	-	-	1,000	-	-	1,000	10	50	10,000		
CS-1	4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	2330		
CS-2	4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	3370		
CS-3	4	3.17.21	X		54.3	<50.0	<50.0	54.3	54.3	<50.0	54.3	<0.00198	<0.00198	3640		
CS-4	4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	2980		
CS-5	4	3.17.21	X		67.8	<49.9	<49.9	67.8	67.8	<49.9	67.8	<0.00199	<0.00199	2850		
CS-6	4	3.17.21	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	0.00262	0.00501	2590		
CS-7	4	3.17.21	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	82.3		
CS-8	4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	45.7		
CS-9	4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	48.2		
CS-10	4	3.17.21	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	12.8		
CS-11	4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	51.4		
CS-12	4	3.17.21	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	159		
CS-13	4	3.17.21	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	294		
CS-14	4	3.17.21	X		164	<50.0	<50.0	164	164	<50.0	164	<0.00202	<0.00202	77.6		
SW-1	0-4	3.17.21	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	396		
SW-2	0-4	3.17.21	X		<50.1	<50.1	<50.1	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	330		
SW-3	0-4	3.17.21	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	197		
SW-4	0-4	3.17.21	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	177		
SW-5	0-4	3.17.21	X		<49.7	<49.7	<49.7	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	244		
SW-6	0-4	3.17.21	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	391		
SW-7	0-4	3.17.21	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	0.147	272		

Photos



King Tut Federal 4' Excavated Area



King Tut Federal 001H Backfilled and completed.

Appendix A

C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (<i>assigned by OCD</i>)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (<i>if applicable</i>)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name		Title:	
Signature: <u></u>		Date:	
email: _____		Telephone:	_____

OCD Only	
Received by: _____	Date: _____

Incident ID	
District RP	
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

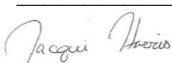
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

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:  Date: _____

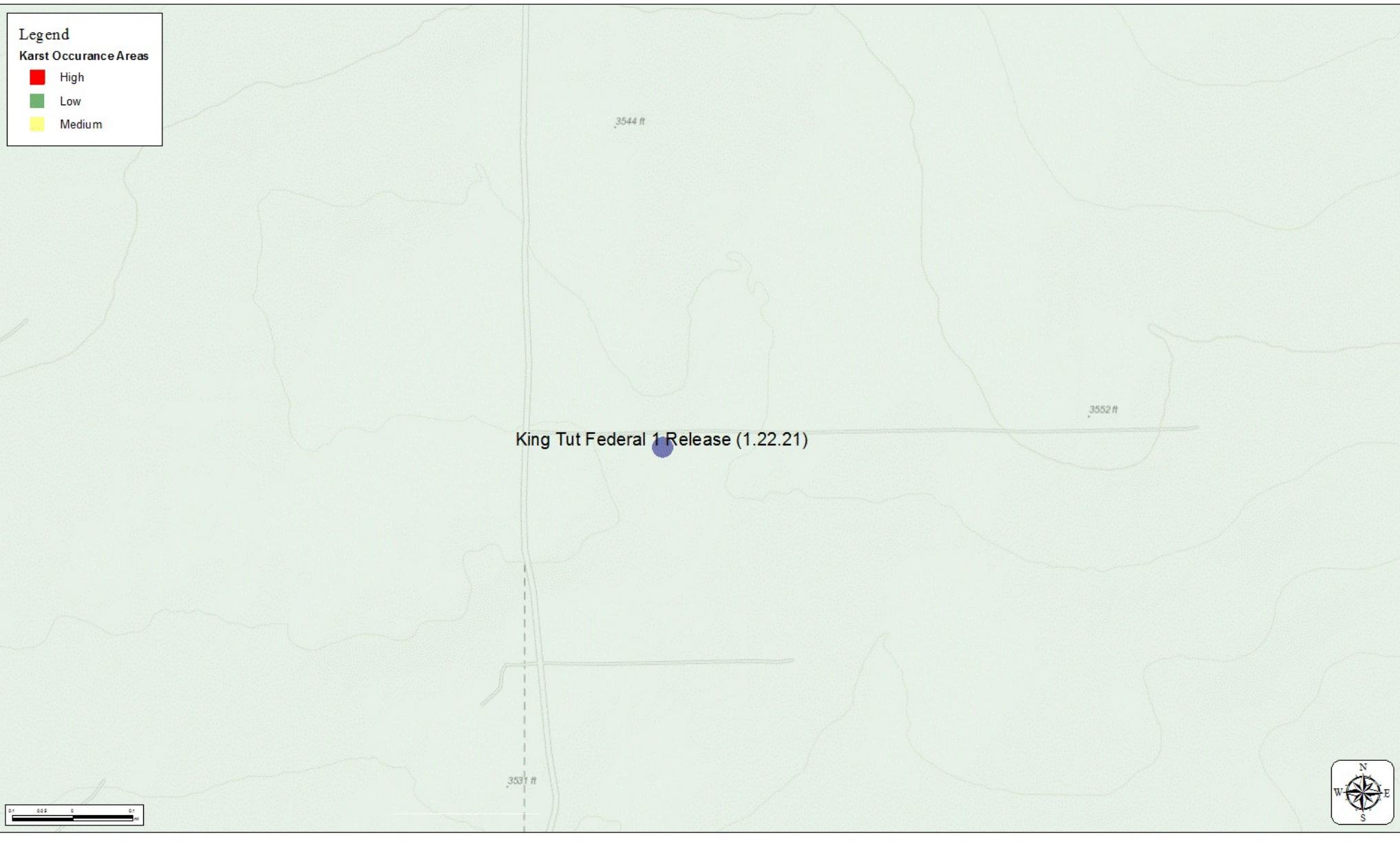
Printed Name: _____ Title: _____

Appendix B

Site Assessment Data



King Tut Fed 1-Karst Map



National Flood Hazard Layer FIRMette



103°43'29"W 32°11'55"N



Legend

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

SPECIAL FLOOD HAZARD AREAS

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

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs

OTHER AREAS

- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation

- 8 - - - Coastal Transect

- ~~~~ 513 ~~~~ Base Flood Elevation Line (BFE)

- Limit of Study

- Jurisdiction Boundary

- - - - - Coastal Transect Baseline

- - - Profile Baseline

- Hydrographic Feature

- Digital Data Available

- No Digital Data Available

- Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/29/2021 at 3:57 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



King Tut Fed 1-DTGW

Legend

BH-1 Lat: 32.195562, Long:-103.721798

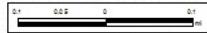
King Tut Federal 1 Release (1.22.21)



3544 ft

3552 ft

3531 ft



SCARBOROUGH DRILLING, INC.

TEST HOLES • WATER WELLS

P.O. Box 305 - Ph. 806-872-3285 or 872-9349
LAMESA, TEXAS 79331
2001 South Hwy. 87**WELL LOG**

From	To	FORMATION
0	1	Caliche Pnd
1	10	Brown Loose Sand
10	28	Brown Sand w/ caliche
28	43	Dense Caliche
43	55	Rod Shale
		BH-1
		COG - King Tut
		Federal #14
		Plugged w/ Hole Plug
		32,195 562 -103,721 798

Date 8-4-20 Driller Lee Sealoy /

GIBBS PRINTING CO.-LAMESA, TX

Appendix C

Analytical Reports



Environment Testing
America



ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-402-1

Laboratory Sample Delivery Group: Eddy NM
Client Project/Site: King Tut Fed 1H

For:

ConocoPhillips Co.
1401 Commerce Drive
Carlsbad, New Mexico 882200

Attn: Jacqui Harris

Authorized for release by:

3/31/2021 11:51:54 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Laboratory Job ID: 890-402-1
 SDG: Eddy NM

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Definitions/Glossary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Job ID: 890-402-1
 SDG: Eddy NM

Job ID: 890-402-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative**

Job Narrative
890-402-1

Comments

No additional comments.

Receipt

The samples were received on 3/19/2021 11:28 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-402-1), CS-2 (890-402-2), CS-3 (890-402-3), CS-4 (890-402-4), CS-5 (890-402-5), CS-6 (890-402-6), CS-7 (890-402-7), CS-8 (890-402-8), CS-9 (890-402-9), CS-10 (890-402-10), CS-11 (890-402-11), CS-12 (890-402-12), CS-13 (890-402-13), CS-14 (890-402-14), SW-1 (890-402-15), SW-2 (890-402-16), SW-3 (890-402-17), SW-4 (890-402-18), SW-5 (890-402-19), SW-6 (890-402-20) and SW-7 (890-402-21).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-7 (890-402-7), CS-9 (890-402-9), CS-14 (890-402-14) and SW-6 (890-402-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

GC Semi VOA

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-908 and analytical batch 880-946 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-907 and analytical batch 880-939 recovered outside control limits for the following analytes: <AffectedAnalytes>.

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-1

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:06	1
Surrogate									
4-Bromofluorobenzene (Surr)	84	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				03/30/21 15:36	03/30/21 21:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/30/21 15:36	03/30/21 21:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	49.9		mg/Kg		03/26/21 13:48	03/27/21 12:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		03/26/21 13:48	03/27/21 12:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 12:27	1
Total TPH	<49.9	U F1	49.9		mg/Kg		03/26/21 13:48	03/27/21 12:27	1
Surrogate									
1-Chlorooctane	18	S1-	70 - 130				Prepared	Analyzed	Dil Fac
			70 - 130				03/26/21 13:48	03/27/21 12:27	1
o-Terphenyl	15	S1-	70 - 130				03/26/21 13:48	03/27/21 12:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2330		25.1		mg/Kg			03/24/21 11:09	5

Client Sample ID: CS-2

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 21:26	1
Surrogate									
4-Bromofluorobenzene (Surr)	99	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				03/30/21 15:36	03/30/21 21:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/30/21 15:36	03/30/21 21:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/26/21 13:48	03/27/21 13:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-2

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-2
Matrix: Solid**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 13:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 13:31	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 13:31	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	5	S1-	70 - 130	03/26/21 13:48	03/27/21 13:31	1
o-Terphenyl	0.08	S1-	70 - 130	03/26/21 13:48	03/27/21 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3370		24.9		mg/Kg			03/24/21 11:14	5

Client Sample ID: CS-3

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-3**Matrix: Solid****Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:47	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/30/21 15:36	03/30/21 21:47	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/30/21 15:36	03/30/21 21:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/30/21 15:36	03/30/21 21:47	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/30/21 15:36	03/30/21 21:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/30/21 15:36	03/30/21 21:47	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.3	*1	50.0		mg/Kg		03/26/21 13:48	03/27/21 13:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 13:48	03/27/21 13:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 13:48	03/27/21 13:53	1
Total TPH	54.3		50.0		mg/Kg		03/26/21 13:48	03/27/21 13:53	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	14	S1-	70 - 130	03/26/21 13:48	03/27/21 13:53	1
o-Terphenyl	7	S1-	70 - 130	03/26/21 13:48	03/27/21 13:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3640		24.8		mg/Kg			03/24/21 11:19	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-4

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-4
Matrix: Solid**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:08	1
Surrogate									
4-Bromofluorobenzene (Surr)	104			Limits			Prepared		Dil Fac
				70 - 130			03/30/21 15:36		1
1,4-Difluorobenzene (Surr)	111			70 - 130			03/30/21 15:36		1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:15	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:15	1
Surrogate									
1-Chlorooctane	3	S1-		Limits			Prepared		Dil Fac
				70 - 130			03/26/21 13:48		1
o-Terphenyl	0.08	S1-		70 - 130			03/26/21 13:48		1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		25.3		mg/Kg			03/24/21 11:34	5

Client Sample ID: CS-5

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-5
Matrix: Solid**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:28	1
Surrogate									
4-Bromofluorobenzene (Surr)	95			Limits			Prepared		Dil Fac
				70 - 130			03/30/21 15:36		1
1,4-Difluorobenzene (Surr)	97			70 - 130			03/30/21 15:36		1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	67.8	*1	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-5

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-5

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 14:36	1
Total TPH	67.8		49.9		mg/Kg		03/26/21 13:48	03/27/21 14:36	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	22	S1-	70 - 130	03/26/21 13:48	03/27/21 14:36	1
<i>o</i> -Terphenyl	14	S1-	70 - 130	03/26/21 13:48	03/27/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2850		24.9		mg/Kg			03/24/21 11:39	5

Client Sample ID: CS-6

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00262		0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
Total BTEX	0.00501		0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
<i>o</i>-Xylene	0.00239		0.00199		mg/Kg		03/30/21 15:36	03/30/21 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				03/30/21 15:36	03/30/21 22:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/30/21 15:36	03/30/21 22:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/26/21 13:48	03/27/21 14:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 13:48	03/27/21 14:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 13:48	03/27/21 14:57	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 13:48	03/27/21 14:57	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	37	S1-	70 - 130	03/26/21 13:48	03/27/21 14:57	1
<i>o</i> -Terphenyl	34	S1-	70 - 130	03/26/21 13:48	03/27/21 14:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2590		24.9		mg/Kg			03/24/21 11:44	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-7

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-7
Matrix: Solid**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/21 15:36	03/30/21 23:10	1
Surrogate									
4-Bromofluorobenzene (Surr)	128	Qualifer	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				03/30/21 15:36	03/30/21 23:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/30/21 15:36	03/30/21 23:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/26/21 13:48	03/27/21 15:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 13:48	03/27/21 15:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 13:48	03/27/21 15:19	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 13:48	03/27/21 15:19	1
Surrogate									
1-Chlorooctane	20	S1-	70 - 130				Prepared	Analyzed	Dil Fac
			70 - 130				03/26/21 13:48	03/27/21 15:19	1
o-Terphenyl	16	S1-	70 - 130				03/26/21 13:48	03/27/21 15:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.3		4.95		mg/Kg			03/24/21 11:49	1

Client Sample ID: CS-8

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-8
Matrix: Solid**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/30/21 15:36	03/30/21 23:31	1
Surrogate									
4-Bromofluorobenzene (Surr)	103	Qualifer	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				03/30/21 15:36	03/30/21 23:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/30/21 15:36	03/30/21 23:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/26/21 13:48	03/27/21 15:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-8

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-8

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 15:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 15:40	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 15:40	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	03/26/21 13:48	03/27/21 15:40	1
o-Terphenyl	79		70 - 130	03/26/21 13:48	03/27/21 15:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		5.00		mg/Kg			03/24/21 11:54	1

Client Sample ID: CS-9

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 23:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 23:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 23:51	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 23:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/30/21 15:36	03/30/21 23:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/30/21 15:36	03/30/21 23:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/21 15:36	03/30/21 23:51	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/30/21 15:36	03/30/21 23:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/30/21 15:36	03/30/21 23:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/26/21 13:48	03/27/21 16:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 16:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 16:01	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 13:48	03/27/21 16:01	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	03/26/21 13:48	03/27/21 16:01	1
o-Terphenyl	83		70 - 130	03/26/21 13:48	03/27/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		4.96		mg/Kg			03/24/21 11:59	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (70-130)	DFBZ1 (70-130)	
890-402-1	CS-1	84	102	
890-402-1 MS	CS-1	92	107	
890-402-1 MSD	CS-1	89	104	
890-402-2	CS-2	99	109	
890-402-3	CS-3	95	106	
890-402-4	CS-4	104	111	
890-402-5	CS-5	95	97	
890-402-6	CS-6	96	107	
890-402-7	CS-7	128	95	
890-402-8	CS-8	103	108	
890-402-9	CS-9	108	100	
890-402-10	CS-10	96	105	
890-402-11	CS-11	94	103	
890-402-12	CS-12	100	111	
890-402-13	CS-13	95	110	
890-402-14	CS-14	102	95	
890-402-15	SW-1	100	106	
890-402-16	SW-2	103	121	
890-402-17	SW-3	98	106	
890-402-18	SW-4	95	106	
890-402-19	SW-5	100	109	
890-402-20	SW-6	118	94	
890-402-21	SW-7	117	101	
LCS 880-1052/1-A	Lab Control Sample	97	206 S1+	
LCS 880-1075/1-A	Lab Control Sample	86	108	
LCSD 880-1052/2-A	Lab Control Sample Dup	99	103	
LCSD 880-1075/2-A	Lab Control Sample Dup	88	105	
MB 880-1052/5-A	Method Blank	100	101	
MB 880-1075/5-A	Method Blank	121	107	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
890-402-1	CS-1	18 S1-	15 S1-	
890-402-1 MS	CS-1	24 S1-	19 S1-	
890-402-1 MSD	CS-1	22 S1-	15 S1-	
890-402-2	CS-2	5 S1-	0.08 S1-	
890-402-3	CS-3	14 S1-	7 S1-	
890-402-4	CS-4	3 S1-	0.08 S1-	
890-402-5	CS-5	22 S1-	14 S1-	
890-402-6	CS-6	37 S1-	34 S1-	
890-402-7	CS-7	20 S1-	16 S1-	
890-402-8	CS-8	82	79	

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Job ID: 890-402-1
 SDG: Eddy NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
890-402-9	CS-9	85	83	
890-402-10	CS-10	91	90	
890-402-11	CS-11	93	91	
890-402-12	CS-12	97	95	
890-402-13	CS-13	103	100	
890-402-14	CS-14	79	81	
890-402-15	SW-1	83	77	
890-402-16	SW-2	65 S1-	61 S1-	
890-402-17	SW-3	79	74	
890-402-18	SW-4	78	72	
890-402-19	SW-5	78	73	
890-402-20	SW-6	75	71	
890-402-21	SW-7	96	90	
LCS 880-907/2-A	Lab Control Sample	99	89	
LCS 880-908/2-A	Lab Control Sample	98	85	
LCSD 880-907/3-A	Lab Control Sample Dup	85	74	
LCSD 880-908/3-A	Lab Control Sample Dup	101	85	
MB 880-907/1-A	Method Blank	89	91	
MB 880-908/1-A	Method Blank	84	81	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample ResultsClient: ConocoPhillips Co.
Project/Site: King Tut Fed 1HJob ID: 890-402-1
SDG: Eddy NM**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: MB 880-1075/5-A****Matrix: Solid****Analysis Batch: 1080****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 1075**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	03/30/21 15:36	03/30/21 20:44	1	
Toluene	<0.00200	U	0.00200		mg/Kg	03/30/21 15:36	03/30/21 20:44	1	
Total BTEX	<0.00200	U	0.00200		mg/Kg	03/30/21 15:36	03/30/21 20:44	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	03/30/21 15:36	03/30/21 20:44	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	03/30/21 15:36	03/30/21 20:44	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg	03/30/21 15:36	03/30/21 20:44	1	

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/30/21 15:36	03/30/21 20:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/30/21 15:36	03/30/21 20:44	1

Lab Sample ID: LCS 880-1075/1-A**Matrix: Solid****Analysis Batch: 1080****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 1075**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Benzene	0.100	0.09794		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.08914		mg/Kg		89	70 - 130	
Toluene	0.100	0.09261		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1760		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08882		mg/Kg		89	70 - 130	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-1075/2-A**Matrix: Solid****Analysis Batch: 1080****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 1075**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Benzene	0.100	0.09370		mg/Kg		94	70 - 130	4	35
Ethylbenzene	0.100	0.08673		mg/Kg		87	70 - 130	3	35
Toluene	0.100	0.09149		mg/Kg		91	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	3	35
o-Xylene	0.100	0.08706		mg/Kg		87	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-402-1 MS**Matrix: Solid****Analysis Batch: 1080****Client Sample ID: CS-1****Prep Type: Total/NA****Prep Batch: 1075**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
Benzene	<0.00198	U	0.0990	0.09983		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00198	U	0.0990	0.08844		mg/Kg		89	70 - 130	

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QC Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-402-1 MS										Client Sample ID: CS-1 Prep Type: Total/NA Prep Batch: 1075			
Analyte		Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits			
Toluene		<0.00198	U	0.0990	0.09661		mg/Kg	98	70 - 130				
m-Xylene & p-Xylene		<0.00396	U	0.198	0.1788		mg/Kg	89	70 - 130				
o-Xylene		<0.00198	U	0.0990	0.08696		mg/Kg	87	70 - 130				
Surrogate		MS %Recovery	MS Qualifier	MS Limits									
4-Bromofluorobenzene (Surr)		92		70 - 130									
1,4-Difluorobenzene (Surr)		107		70 - 130									

Lab Sample ID: 890-402-1 MSD

Lab Sample ID: 890-402-1 MSD										Client Sample ID: CS-1 Prep Type: Total/NA Prep Batch: 1075			
Analyte		Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit	
Benzene		<0.00198	U	0.0992	0.09405		mg/Kg	93	70 - 130	6	35		
Ethylbenzene		<0.00198	U	0.0992	0.08213		mg/Kg	83	70 - 130	7	35		
Toluene		<0.00198	U	0.0992	0.09068		mg/Kg	91	70 - 130	6	35		
m-Xylene & p-Xylene		<0.00396	U	0.198	0.1656		mg/Kg	82	70 - 130	8	35		
o-Xylene		<0.00198	U	0.0992	0.08081		mg/Kg	81	70 - 130	7	35		
Surrogate		MSD %Recovery	MSD Qualifier	MSD Limits									
4-Bromofluorobenzene (Surr)		89		70 - 130									
1,4-Difluorobenzene (Surr)		104		70 - 130									

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-907/1-A										Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 907			
Analyte		MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10		<50.0	U	50.0		mg/Kg		03/26/21 13:48	03/27/21 11:22	1			
Diesel Range Organics (Over C10-C28)		<50.0	U	50.0		mg/Kg		03/26/21 13:48	03/27/21 11:22	1			
Oil Range Organics (Over C28-C36)		<50.0	U	50.0		mg/Kg		03/26/21 13:48	03/27/21 11:22	1			
Total TPH		<50.0	U	50.0		mg/Kg		03/26/21 13:48	03/27/21 11:22	1			
Surrogate		MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac			
1-Chlorooctane		89		70 - 130				03/26/21 13:48	03/27/21 11:22	1			
o-Terphenyl		91		70 - 130				03/26/21 13:48	03/27/21 11:22	1			

Lab Sample ID: LCS 880-907/2-A

Lab Sample ID: LCS 880-907/2-A										Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 907			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits					
Gasoline Range Organics (GRO)-C6-C10		1000	1288		mg/Kg	129	70 - 130						

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QC Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-908/1-A
Matrix: Solid
Analysis Batch: 946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/26/21 14:06	03/27/21 13:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 14:06	03/27/21 13:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 14:06	03/27/21 13:23	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 14:06	03/27/21 13:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	03/26/21 14:06	03/27/21 13:23	1
o-Terphenyl	81		70 - 130	03/26/21 14:06	03/27/21 13:23	1

Lab Sample ID: LCS 880-908/2-A
Matrix: Solid
Analysis Batch: 946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 908

Lab Sample ID: LCSD 880-908/3-A
Matrix: Solid
Analysis Batch: 946

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 908

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-796/1-A
Matrix: Solid
Analysis Batch: 800

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg		03/24/21 10:34		1

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QC Sample Results

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: LCS 880-796/2-A****Matrix: Solid****Analysis Batch: 800****Client Sample ID: Lab Control Sample**
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.0		mg/Kg	108		90 - 110

Lab Sample ID: LCSD 880-796/3-A**Matrix: Solid****Analysis Batch: 800****Client Sample ID: Lab Control Sample Dup**
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	270.5		mg/Kg	108		90 - 110	0	20

Lab Sample ID: 890-402-9 MS**Matrix: Solid****Analysis Batch: 800****Client Sample ID: CS-9**
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	48.2		248	316.4		mg/Kg	108		90 - 110

Lab Sample ID: 890-402-9 MSD**Matrix: Solid****Analysis Batch: 800****Client Sample ID: CS-9**
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	48.2		248	316.5		mg/Kg	108		90 - 110	0	20

Lab Sample ID: MB 880-990/1-A**Matrix: Solid****Analysis Batch: 991****Client Sample ID: Method Blank**
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00	mg/Kg			03/29/21 13:09	1

Lab Sample ID: LCS 880-990/2-A**Matrix: Solid****Analysis Batch: 991****Client Sample ID: Lab Control Sample**
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	273.0		mg/Kg	109		90 - 110

Lab Sample ID: LCSD 880-990/3-A**Matrix: Solid****Analysis Batch: 991****Client Sample ID: Lab Control Sample Dup**
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	274.2		mg/Kg	110		90 - 110	0	20

Lab Sample ID: 890-402-20 MS**Matrix: Solid****Analysis Batch: 991****Client Sample ID: SW-6**
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	391		249	651.7		mg/Kg	105		90 - 110

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QC Sample Results

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Job ID: 890-402-1
 SDG: Eddy NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-402-20 MSD

Matrix: Solid

Analysis Batch: 991

Client Sample ID: SW-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	391		249	652.9		mg/Kg	105		90 - 110	0	20

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QC Association Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

GC VOA

Prep Batch: 1052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-21	SW-7	Total/NA	Solid	5035	
MB 880-1052/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1052/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1052/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-21	SW-7	Total/NA	Solid	8021B	1052
MB 880-1052/5-A	Method Blank	Total/NA	Solid	8021B	1052
LCS 880-1052/1-A	Lab Control Sample	Total/NA	Solid	8021B	1052
LCSD 880-1052/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1052

Prep Batch: 1075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-1	CS-1	Total/NA	Solid	5035	
890-402-2	CS-2	Total/NA	Solid	5035	
890-402-3	CS-3	Total/NA	Solid	5035	
890-402-4	CS-4	Total/NA	Solid	5035	
890-402-5	CS-5	Total/NA	Solid	5035	
890-402-6	CS-6	Total/NA	Solid	5035	
890-402-7	CS-7	Total/NA	Solid	5035	
890-402-8	CS-8	Total/NA	Solid	5035	
890-402-9	CS-9	Total/NA	Solid	5035	
890-402-10	CS-10	Total/NA	Solid	5035	
890-402-11	CS-11	Total/NA	Solid	5035	
890-402-12	CS-12	Total/NA	Solid	5035	
890-402-13	CS-13	Total/NA	Solid	5035	
890-402-14	CS-14	Total/NA	Solid	5035	
890-402-15	SW-1	Total/NA	Solid	5035	
890-402-16	SW-2	Total/NA	Solid	5035	
890-402-17	SW-3	Total/NA	Solid	5035	
890-402-18	SW-4	Total/NA	Solid	5035	
890-402-19	SW-5	Total/NA	Solid	5035	
890-402-20	SW-6	Total/NA	Solid	5035	
MB 880-1075/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1075/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1075/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-402-1 MS	CS-1	Total/NA	Solid	5035	
890-402-1 MSD	CS-1	Total/NA	Solid	5035	

Analysis Batch: 1080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-1	CS-1	Total/NA	Solid	8021B	1075
890-402-2	CS-2	Total/NA	Solid	8021B	1075
890-402-3	CS-3	Total/NA	Solid	8021B	1075
890-402-4	CS-4	Total/NA	Solid	8021B	1075
890-402-5	CS-5	Total/NA	Solid	8021B	1075
890-402-6	CS-6	Total/NA	Solid	8021B	1075
890-402-7	CS-7	Total/NA	Solid	8021B	1075
890-402-8	CS-8	Total/NA	Solid	8021B	1075
890-402-9	CS-9	Total/NA	Solid	8021B	1075

Eurofins Xenco, Carlsbad

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

GC VOA (Continued)

Analysis Batch: 1080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-10	CS-10	Total/NA	Solid	8021B	1075
890-402-11	CS-11	Total/NA	Solid	8021B	1075
890-402-12	CS-12	Total/NA	Solid	8021B	1075
890-402-13	CS-13	Total/NA	Solid	8021B	1075
890-402-14	CS-14	Total/NA	Solid	8021B	1075
890-402-15	SW-1	Total/NA	Solid	8021B	1075
890-402-16	SW-2	Total/NA	Solid	8021B	1075
890-402-17	SW-3	Total/NA	Solid	8021B	1075
890-402-18	SW-4	Total/NA	Solid	8021B	1075
890-402-19	SW-5	Total/NA	Solid	8021B	1075
890-402-20	SW-6	Total/NA	Solid	8021B	1075
MB 880-1075/5-A	Method Blank	Total/NA	Solid	8021B	1075
LCS 880-1075/1-A	Lab Control Sample	Total/NA	Solid	8021B	1075
LCSD 880-1075/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1075
890-402-1 MS	CS-1	Total/NA	Solid	8021B	1075
890-402-1 MSD	CS-1	Total/NA	Solid	8021B	1075

GC Semi VOA

Prep Batch: 907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-1	CS-1	Total/NA	Solid	8015NM Prep	14
890-402-2	CS-2	Total/NA	Solid	8015NM Prep	14
890-402-3	CS-3	Total/NA	Solid	8015NM Prep	14
890-402-4	CS-4	Total/NA	Solid	8015NM Prep	14
890-402-5	CS-5	Total/NA	Solid	8015NM Prep	14
890-402-6	CS-6	Total/NA	Solid	8015NM Prep	14
890-402-7	CS-7	Total/NA	Solid	8015NM Prep	14
890-402-8	CS-8	Total/NA	Solid	8015NM Prep	14
890-402-9	CS-9	Total/NA	Solid	8015NM Prep	14
890-402-10	CS-10	Total/NA	Solid	8015NM Prep	14
890-402-11	CS-11	Total/NA	Solid	8015NM Prep	14
890-402-12	CS-12	Total/NA	Solid	8015NM Prep	14
890-402-13	CS-13	Total/NA	Solid	8015NM Prep	14
890-402-14	CS-14	Total/NA	Solid	8015NM Prep	14
890-402-15	SW-1	Total/NA	Solid	8015NM Prep	14
890-402-16	SW-2	Total/NA	Solid	8015NM Prep	14
890-402-17	SW-3	Total/NA	Solid	8015NM Prep	14
890-402-18	SW-4	Total/NA	Solid	8015NM Prep	14
890-402-19	SW-5	Total/NA	Solid	8015NM Prep	14
890-402-20	SW-6	Total/NA	Solid	8015NM Prep	14
MB 880-907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	14
LCS 880-907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	14
LCSD 880-907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	14
890-402-1 MS	CS-1	Total/NA	Solid	8015NM Prep	14
890-402-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	14

Prep Batch: 908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-21	SW-7	Total/NA	Solid	8015NM Prep	14
MB 880-908/1-A	Method Blank	Total/NA	Solid	8015NM Prep	14

Eurofins Xenco, Carlsbad

QC Association Summary

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Job ID: 890-402-1
 SDG: Eddy NM

GC Semi VOA (Continued)

Prep Batch: 908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-908/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-1	CS-1	Total/NA	Solid	8015B NM	907
890-402-2	CS-2	Total/NA	Solid	8015B NM	907
890-402-3	CS-3	Total/NA	Solid	8015B NM	907
890-402-4	CS-4	Total/NA	Solid	8015B NM	907
890-402-5	CS-5	Total/NA	Solid	8015B NM	907
890-402-6	CS-6	Total/NA	Solid	8015B NM	907
890-402-7	CS-7	Total/NA	Solid	8015B NM	907
890-402-8	CS-8	Total/NA	Solid	8015B NM	907
890-402-9	CS-9	Total/NA	Solid	8015B NM	907
890-402-10	CS-10	Total/NA	Solid	8015B NM	907
890-402-11	CS-11	Total/NA	Solid	8015B NM	907
890-402-12	CS-12	Total/NA	Solid	8015B NM	907
890-402-13	CS-13	Total/NA	Solid	8015B NM	907
890-402-14	CS-14	Total/NA	Solid	8015B NM	907
890-402-15	SW-1	Total/NA	Solid	8015B NM	907
890-402-16	SW-2	Total/NA	Solid	8015B NM	907
890-402-17	SW-3	Total/NA	Solid	8015B NM	907
890-402-18	SW-4	Total/NA	Solid	8015B NM	907
890-402-19	SW-5	Total/NA	Solid	8015B NM	907
890-402-20	SW-6	Total/NA	Solid	8015B NM	907
MB 880-907/1-A	Method Blank	Total/NA	Solid	8015B NM	907
LCS 880-907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	907
LCSD 880-907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	907
890-402-1 MS	CS-1	Total/NA	Solid	8015B NM	907
890-402-1 MSD	CS-1	Total/NA	Solid	8015B NM	907

Analysis Batch: 946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-21	SW-7	Total/NA	Solid	8015B NM	908
MB 880-908/1-A	Method Blank	Total/NA	Solid	8015B NM	908
LCS 880-908/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	908
LCSD 880-908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	908

HPLC/IC

Leach Batch: 796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-1	CS-1	Soluble	Solid	DI Leach	
890-402-2	CS-2	Soluble	Solid	DI Leach	
890-402-3	CS-3	Soluble	Solid	DI Leach	
890-402-4	CS-4	Soluble	Solid	DI Leach	
890-402-5	CS-5	Soluble	Solid	DI Leach	
890-402-6	CS-6	Soluble	Solid	DI Leach	
890-402-7	CS-7	Soluble	Solid	DI Leach	
890-402-8	CS-8	Soluble	Solid	DI Leach	
890-402-9	CS-9	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

HPLC/IC (Continued)**Leach Batch: 796 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-10	CS-10	Soluble	Solid	DI Leach	1
890-402-11	CS-11	Soluble	Solid	DI Leach	2
890-402-12	CS-12	Soluble	Solid	DI Leach	3
890-402-13	CS-13	Soluble	Solid	DI Leach	4
890-402-14	CS-14	Soluble	Solid	DI Leach	5
890-402-15	SW-1	Soluble	Solid	DI Leach	6
890-402-16	SW-2	Soluble	Solid	DI Leach	7
890-402-17	SW-3	Soluble	Solid	DI Leach	8
890-402-18	SW-4	Soluble	Solid	DI Leach	9
MB 880-796/1-A	Method Blank	Soluble	Solid	DI Leach	10
LCS 880-796/2-A	Lab Control Sample	Soluble	Solid	DI Leach	11
LCSD 880-796/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	12
890-402-9 MS	CS-9	Soluble	Solid	DI Leach	13
890-402-9 MSD	CS-9	Soluble	Solid	DI Leach	14

Analysis Batch: 800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-1	CS-1	Soluble	Solid	300.0	1
890-402-2	CS-2	Soluble	Solid	300.0	2
890-402-3	CS-3	Soluble	Solid	300.0	3
890-402-4	CS-4	Soluble	Solid	300.0	4
890-402-5	CS-5	Soluble	Solid	300.0	5
890-402-6	CS-6	Soluble	Solid	300.0	6
890-402-7	CS-7	Soluble	Solid	300.0	7
890-402-8	CS-8	Soluble	Solid	300.0	8
890-402-9	CS-9	Soluble	Solid	300.0	9
890-402-10	CS-10	Soluble	Solid	300.0	10
890-402-11	CS-11	Soluble	Solid	300.0	11
890-402-12	CS-12	Soluble	Solid	300.0	12
890-402-13	CS-13	Soluble	Solid	300.0	13
890-402-14	CS-14	Soluble	Solid	300.0	14
890-402-15	SW-1	Soluble	Solid	300.0	1
890-402-16	SW-2	Soluble	Solid	300.0	2
890-402-17	SW-3	Soluble	Solid	300.0	3
890-402-18	SW-4	Soluble	Solid	300.0	4
MB 880-796/1-A	Method Blank	Soluble	Solid	300.0	5
LCS 880-796/2-A	Lab Control Sample	Soluble	Solid	300.0	6
LCSD 880-796/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7
890-402-9 MS	CS-9	Soluble	Solid	300.0	8
890-402-9 MSD	CS-9	Soluble	Solid	300.0	9

Leach Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-19	SW-5	Soluble	Solid	DI Leach	1
890-402-20	SW-6	Soluble	Solid	DI Leach	2
890-402-21	SW-7	Soluble	Solid	DI Leach	3
MB 880-990/1-A	Method Blank	Soluble	Solid	DI Leach	4
LCS 880-990/2-A	Lab Control Sample	Soluble	Solid	DI Leach	5
LCSD 880-990/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	6
890-402-20 MS	SW-6	Soluble	Solid	DI Leach	7
890-402-20 MSD	SW-6	Soluble	Solid	DI Leach	8

Eurofins Xenco, Carlsbad

QC Association Summary

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Job ID: 890-402-1
 SDG: Eddy NM

HPLC/IC**Analysis Batch: 991**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-402-19	SW-5	Soluble	Solid	300.0	990
890-402-20	SW-6	Soluble	Solid	300.0	990
890-402-21	SW-7	Soluble	Solid	300.0	990
MB 880-990/1-A	Method Blank	Soluble	Solid	300.0	990
LCS 880-990/2-A	Lab Control Sample	Soluble	Solid	300.0	990
LCSD 880-990/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	990
890-402-20 MS	SW-6	Soluble	Solid	300.0	990
890-402-20 MSD	SW-6	Soluble	Solid	300.0	990

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Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-1

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 21:06	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 12:27	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		5	800	03/24/21 11:09	CH	XM

Client Sample ID: CS-2

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 21:26	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 13:31	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		5	800	03/24/21 11:14	CH	XM

Client Sample ID: CS-3

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 21:47	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 13:53	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		5	800	03/24/21 11:19	CH	XM

Client Sample ID: CS-4

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 22:08	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 14:15	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		5	800	03/24/21 11:34	CH	XM

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Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-5

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 22:28	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 14:36	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		5	800	03/24/21 11:39	CH	XM

Client Sample ID: CS-6

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 22:49	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 14:57	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		5	800	03/24/21 11:44	CH	XM

Client Sample ID: CS-7

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 23:10	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 15:19	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 11:49	CH	XM

Client Sample ID: CS-8

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 23:31	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 15:40	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 11:54	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-9

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/30/21 23:51	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 16:01	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 11:59	CH	XM

Client Sample ID: CS-10

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 00:12	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 16:22	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:14	CH	XM

Client Sample ID: CS-11

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 01:36	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 17:04	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:19	CH	XM

Client Sample ID: CS-12

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 01:57	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 17:25	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:34	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: CS-13

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 02:18	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 17:46	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:39	CH	XM

Client Sample ID: CS-14

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 02:38	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 18:07	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:44	CH	XM

Client Sample ID: SW-1

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 02:59	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 18:28	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:49	CH	XM

Client Sample ID: SW-2

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 03:20	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 18:49	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:54	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Client Sample ID: SW-3

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 03:40	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 19:10	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 12:59	CH	XM

Client Sample ID: SW-4

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 04:01	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 19:31	AJ	XM
Soluble	Leach	DI Leach			796	03/24/21 08:52	CH	XM
Soluble	Analysis	300.0		1	800	03/24/21 13:04	CH	XM

Client Sample ID: SW-5

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 04:22	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 19:52	AJ	XM
Soluble	Leach	DI Leach			990	03/29/21 10:13	CH	XM
Soluble	Analysis	300.0		1	991	03/29/21 14:29	CH	XM

Client Sample ID: SW-6

Date Collected: 03/17/21 00:00
Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1075	03/30/21 15:36	KL	XM
Total/NA	Analysis	8021B		1	1080	03/31/21 04:43	KL	XM
Total/NA	Prep	8015NM Prep			907	03/26/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 20:13	AJ	XM
Soluble	Leach	DI Leach			990	03/29/21 10:13	CH	XM
Soluble	Analysis	300.0		1	991	03/29/21 14:34	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: ConocoPhillips Co.
 Project/Site: King Tut Fed 1H

Job ID: 890-402-1
 SDG: Eddy NM

Client Sample ID: SW-7

Date Collected: 03/17/21 00:00

Date Received: 03/19/21 11:28

Lab Sample ID: 890-402-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1052	03/30/21 09:18	KL	XM
Total/NA	Analysis	8021B		1	1053	03/30/21 15:27	KL	XM
Total/NA	Prep	8015NM Prep			908	03/26/21 14:06	DM	XM
Total/NA	Analysis	8015B NM		1	946	03/27/21 22:32	AJ	XM
Soluble	Leach	DI Leach			990	03/29/21 10:13	CH	XM
Soluble	Analysis	300.0		1	991	03/29/21 14:49	CH	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

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Eurofins Xenco, Carlsbad

Method Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: ConocoPhillips Co.
Project/Site: King Tut Fed 1H

Job ID: 890-402-1
SDG: Eddy NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-402-1	CS-1	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-2	CS-2	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-3	CS-3	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-4	CS-4	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-5	CS-5	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-6	CS-6	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-7	CS-7	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-8	CS-8	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-9	CS-9	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-10	CS-10	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-11	CS-11	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-12	CS-12	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-13	CS-13	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-14	CS-14	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-15	SW-1	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-16	SW-2	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-17	SW-3	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-18	SW-4	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-19	SW-5	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-20	SW-6	Solid	03/17/21 00:00	03/19/21 11:28	
890-402-21	SW-7	Solid	03/17/21 00:00	03/19/21 11:28	

Eurofins Xenco, Carlsbad



Analysis Request of Chain of Custody Record

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One Concho Center/600 Illinois
Avenue/Midland, Texas
Tel (432) 683-7443

Client Name: COG Site Manager: Jacqui Harris

Object Name: King Tut Fed 11th
Object Location: Soddy, NM

County, state: Project #: voice to:

Receiving Laboratory: Jacqui Harris

Comments:

Sampler Name: Jacqui Harris

SAMPLE IDENTIFICATION

ANALYSIS REQUEST
(Circle or Specify Method No.)

890-402 Chain of Custody



LAB # LAB USE ONLY	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	(C)omposite/(G)rab		
	YEAR:	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE
CS -1	3/19/21			X		X		
CS -2								
CS -3								
CS -4								
CS -5								
CS -6								
CS -7								
CS -8								
CS -9								
CS -K								

LAB USE ONLY	REMARKS:
Sample Temperature 2.2 / 2.0	Standard 5 day Hold

Received by: <i>Jane</i> Date: <u>3/19/21</u> Time: <u>11:21</u>	Date: <u>3/19/21</u> Time: <u>11:21</u>	LAB USE ONLY	RUSH: Same Day 24 hr 48 hr 72 hr
Released by: <i>Jane</i> Date: <u>3/19/21</u> Time: <u>11:21</u>	Date: <u>3/19/21</u> Time: <u>11:21</u>		<input type="checkbox"/> Rush Charges Authorized
Inquired by: <i>Jane</i> Date: <u>3/19/21</u> Time: <u>11:21</u>	Date: <u>3/19/21</u> Time: <u>11:21</u>		<input type="checkbox"/> Special Report Limits or TRRP Report
Received by: <i>Jane</i> Date: <u>3/19/21</u> Time: <u>11:21</u>	Date: <u>3/19/21</u> Time: <u>11:21</u>		<input type="checkbox"/> Hand DELIVERED <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS Tracking #:

Analysis Request of Chain of Custody Record



One Concho Center
600 Illinois
Avenue/Midland, Texas
Tel (432) 663-7443

Page 2 of 2
3/3/2021

Client Name:	COG	Site Manager:	Jacqui Harris
Object Name:	<u>King Tut Sed 1H</u>		
Object Location: (county, state)	<u>Eddy, NM</u>		
voice to:	Jacqui Harris		
Receiving Laboratory:			
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

Sampler Name:	Jacqui Harris		
LAB #	SAMPLE IDENTIFICATION		
YEAR:			
	DATE	TIME	
<u>C S-11</u>	WATER		
	SOIL		
	HCL		
	HNO ₃		
	ICE		
<u>C S-12</u>	# CONTAINERS		
	(C)omposite/(G)rab		
	TPH 8015M (GRO - DRO - MRO)		
	BTEX 8021B		
	Chloride		
<u>C S-13</u>			
<u>C S-14</u>			
<u>SW-1</u>			
<u>SW-2</u>			
<u>SW-3</u>			
<u>SW-4</u>			
<u>SW-5</u>			
<u>SW-6</u>			
Received by:			
Date:			
Time:			
Received by:			
Date:			
Time:			
Received by:			
Date:			
Time:			

LAB USE ONLY	REMARKS:		
<u>Standard 5 day</u>			
Sample Temperature			
<u>See Pg</u>			
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr			
<input type="checkbox"/> Rush Charges Authorized			
<input type="checkbox"/> Special Report Limits or TRRP Report			

<input type="checkbox"/> HAND DELIVERED	<input type="checkbox"/> FEDEX	<input type="checkbox"/> UPS	Tracking #:
-----------------------------------------	--------------------------------	------------------------------	-------------

Received by OCD: 4/22/2021 3:18:20 PM

ORIGINAL COPY

Released to Imaging: 7/8/2021 3:32:53 PM

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Hold

Analysis Request of Chain of Custody Record



One Concho Center 600 Illinois
Avenue Midland Texas
Tel (432) 663-7443

Page

3 of

3/31/2021

Client Name: COG	Site Manager: Jacqui Harris	ANALYSIS REQUEST (Circle or Specify Method No.)																			
Object Name: King Tut Sed 1H	Project #:																				
Object Location: county, state) Eddy, NM	voice to: Jacqui Harris	Sampler Name: Jacqui Harris	Comments:																		
LAB #													SAMPLE IDENTIFICATION		SAMPLING	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	(C)omposite/(G)rab		
													YEAR:		WATER						
													DATE	TIME	SOIL	HCL	HNO ₃	ICE			
													<u>3/19/21</u>	<u>1128</u>	X	X	X	X			
													Received by:	Date:	Time:	LAB USE ONLY		REMARKS:			
													<u>Jacqui</u>	<u>3/19/21</u>	<u>1128</u>	<u>Standard 5 day</u>					
													Received by:	Date:	Time:	Sample Temperature					
													<u>Jacqui</u>	<u>3/19/21</u>	<u>1128</u>	<u>50</u>		<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	<input type="checkbox"/> Rush Charges Authorized		
													Received by:	Date:	Time:			<input type="checkbox"/> Special Report Limits or TRRP Report			
													<u>Seery</u>	<u>3/19/21</u>	<u>1128</u>						
													(Circle) HAND DELIVERED FEDEX UPS Tracking #:								

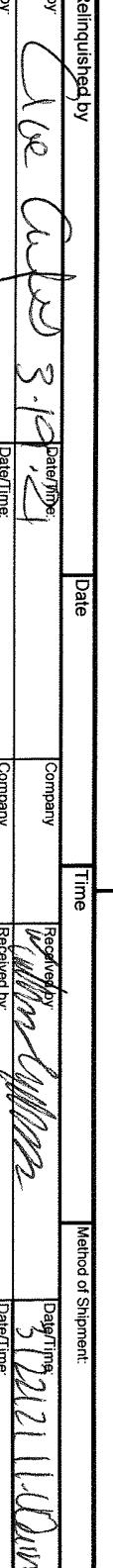
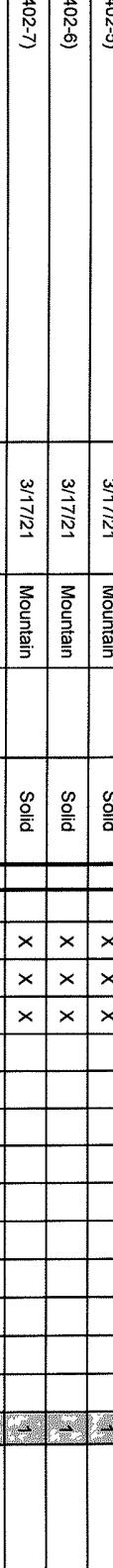
Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM Kramer, Jessica	Carrier Tracking No(s): New Mexico	COC No: 890-120 1
Client Contact: Shipping/Receiving		Phone:	E-Mail jessica.kramer@eurofinset.com	Page: Page 1 of 3	
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas			
Address: 1211 W Florida Ave , City: Midland State, Zip: TX, 79701 Phone: 432-704-5440(Tel) Email: Project Name: King Turf Fed 1H Site: SSQW#:		Due Date Requested 3/26/2021 TAT Requested (days):	Analysis Requested		Job #: 890-402-1
		PO#:	Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No):		Preservation Codes
		WO#:	8016MOD_NM/8015NM_S_Prep (MOD) Full TPH 300_ORGFM_28D/DI_LEACH Chloride 8021B/5036FP_Calc BTEX - LL		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonium H - Ascorbic Acid I - Iodine J - DI Water K - EDTA L - EDA Other:
		Sample Date 3/17/21	Sample Time Preservation Code B=Water, G=Grab, G=Comp, B=Trisette, A=Air	Total Number of containers	Special Instructions/Note:
Sample Identification - Client ID (Lab ID)		Sample Date 3/17/21	Sample Time Preservation Code B=Water, G=Grab, G=Comp, B=Trisette, A=Air	1	
CS-1 (890-402-1)		3/17/21	Mountain Solid	X X X	1
CS-2 (890-402-2)		3/17/21	Mountain Solid	X X X	1
CS-3 (890-402-3)		3/17/21	Mountain Solid	X X X	1
CS-4 (890-402-4)		3/17/21	Mountain Solid	X X X	1
CS-5 (890-402-5)		3/17/21	Mountain Solid	X X X	1
CS-6 (890-402-6)		3/17/21	Mountain Solid	X X X	1
CS-7 (890-402-7)		3/17/21	Mountain Solid	X X X	1
CS-8 (890-402-8)		3/17/21	Mountain Solid	X X X	1
CS-9 (890-402-9)		3/17/21	Mountain Solid	X X X	1
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testmatrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>					
Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Delivered Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by  Date/Time: 3/19/2021 Company: Eurofins Xenco		Date	Time	Received by:  Date/Time: 3/22/2021 11:11 AM Company: Eurofins Xenco	
Reinstituted by Date/Time:		Received by	Date/Time:	Date/Time: Company:	
Custody Seals Intact □ Yes □ No		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record

Eurofins Xenco, Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Client Information (Sub Contract Lab)		Sampler	Lab PM	Kramer Jessica	Carrier Tracking No(s)	COC No 890-120-2
Client Contact Shipping/Receiving	Phone		E-Mail	jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page 2 of 3
Company Eurofins Xenco					Accreditations Required (See note)	Job #: 890-402-1
Address, 1211 W Florida Ave						Preservation Codes
City Midland					A HCL	M Hexane
State, Zip: TX 79701					B NaOH	N None
Phone 432-704-5440(Tel)	IPO#:				C Zn Acetate	O AsNaC2
Email	IWO#:				D Nitric Acid	P Na2O4S
Project Name: King Tut Fed 1H	Project #: 88600130				E NaHSO4	Q Na2SC3
Site: SSOW#:					F MeOH	R Na2SO3
Analysis Requested						
						Total Number of Containers
						X
						8021B/5036FP-Calc BTEX - LL
						300-ORGF-M-28D/DL-EACH Chloride
						8016M0D-NM/8016NM-S_Prep (MOD) Full TPH
						Perform MS/MSD (yes or No)
						X
Sample Identification - Client ID (Lab ID)						Special Instructions/Note.
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water Soil Oil Owaste, B1/FIssue A/Air)	Preservation Code:	Solid	X
3/17/21	2:44:27:04	X	X		X	X
CS-11 (890-402-11)	3/17/21	Mountain	Solid		X	X
CS-12 (890-402-12)	3/17/21	Mountain	Solid		X	X
CS-13 (890-402-13)	3/17/21	Mountain	Solid		X	X
CS-14 (890-402-14)	3/17/21	Mountain	Solid		X	X
SW-1 (890-402-15)	3/17/21	Mountain	Solid		X	X
SW-2 (890-402-16)	3/17/21	Mountain	Solid		X	X
SW-3 (890-402-17)	3/17/21	Mountain	Solid		X	X
SW-4 (890-402-18)	3/17/21	Mountain	Solid		X	X
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analytic & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC						
Possible Hazard Identification						
Unconfirmed	Deliverable Requested I, II, III, IV Other (specify)	Primary Deliverable Rank: 2	Date	Time	Method of Shipment:	
Relinquished by: <i>Joe Cuff 3/19/21</i>	Date/time:	Company	Received by: <i>Jessica Kramer</i>	Date/time: <i>3/19/21 11:00:11</i>	Company	
Relinquished by:	Date/time:	Company	Received by:	Date/time:	Company	
Relinquished by:	Date/time:	Company	Received by:	Date/time:	Company	
Custody Seals Intact	Custody Seal No △ Yes △ No				Cooler Temperature(s) °C and Other Remarks.	
Ver 11/01/2020						

Login Sample Receipt Checklist

Client: ConocoPhillips Co.

Job Number: 890-402-1
SDG Number: Eddy NM**Login Number: 402****List Source: Eurofins Carlsbad****List Number: 1****Creator: Clifton, Cloe****Question****Answer****Comment**

The cooler's custody seal, if present, is intact.	True		6
Sample custody seals, if present, are intact.	True		7
The cooler or samples do not appear to have been compromised or tampered with.	True		8
Samples were received on ice.	True		9
Cooler Temperature is acceptable.	True		10
Cooler Temperature is recorded.	True		11
COC is present.	True		12
COC is filled out in ink and legible.	True		13
COC is filled out with all pertinent information.	True		14
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		

Login Sample Receipt Checklist

Client: ConocoPhillips Co.

Job Number: 890-402-1
SDG Number: Eddy NM**Login Number: 402****List Source: Eurofins Midland**
List Creation: 03/22/21 11:13 AM**List Number: 2****Creator: Copeland, Tatiana**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	True		6
Sample custody seals, if present, are intact.	True		7
The cooler or samples do not appear to have been compromised or tampered with.	True		8
Samples were received on ice.	True		9
Cooler Temperature is acceptable.	True		10
Cooler Temperature is recorded.	True		11
COC is present.	True		12
COC is filled out in ink and legible.	True		13
COC is filled out with all pertinent information.	True		14
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		

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

Action 25292

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 25292
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	None	7/8/2021