

Ike Tavarez ConocoPhillips 600 W. Illinois Avenue Midland, TX 79701 +1-432-701-8630

November 21, 2022

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Subject:

Tequiza Federal #1 Release

Unit Letter O, Section 34, Township 21 South, Range 25 East

Eddy County, New Mexico Incident ID nAB1805142690

2RP-4632

Sir or Madam:

ConocoPhillips Company("COPC") entered into an Agreed Compliance Order ("ACO") with the New Mexico Oil Conservation Division ("NMOCD") on December 15, 2021, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022. As of March 11, 2022, COPC has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD.

The Tequiza Federal #1 Release that occurred on February 17, 2018 (Incident ID nAB1805142690, 2RP-4632) was included in the above-mentioned ACO submittals. The Work Plan for the Tequiza Federal #1 Release was originally submitted to the NMOCD and BLM via email on November 12, 2018. No response was received from the NMOCD concerning the approval or rejection of said report.

Enclosed is a copy of the Work Plan for the subject line incident. As mentioned, this Work Plan has been previously submitted in its entirety via the CentreStack platform. It is now duly submitted separately via the NMOCD Fee Application portal.

If you have any questions, please contact me at 432-701-8630.

Sincerely,

Ike Tavarez, P.G.

Program Manager - RMR

CC:

Site Files

Attachments: Work Plan, Tequiza Federal #1 Release, Incident ID nAB1805142690, 2RP-4632

From: <u>Ike Tavarez</u>

To: <u>Pruett, Maria, EMNRD; stucker</u>

Cc: mike.bratcher@state.nm.us; Rebecca Haskell; Sheldon Hitchcock; DeAnn Grant; Dakota Neel

Subject: COG - Tequiza Federal #1 (2-17-18) 2RP 4632 - Work Plan

Date: Monday, November 12, 2018 3:44:42 PM

Attachments: <u>image001.jpg</u>

COG - Tequiza Federal #1 (2-17-18) 2 RP 4632 - Work Plan.pdf

Maria and Shelly,

Here is the work plan for the Tequiza Federal #1 located in Eddy County, New Mexico. Let me know if you need additional information or have any questions on the report, thanks

Ike Tavarez, PG Senior HSE Supervisor COG Operating LLC 600 W Illinois Avenue | Midland, TX 79701 Direct: 432-685-2573| Main: 432-683-7443

Cell: 432-701-8630 itavarez@concho.com



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November 12, 2018

Maria Pruett
Oil Conservation Division, District 2
811 S First St.
Artesia, NM 88210

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

Re: Work Plan

Tequiza Federal #1 (2/17/18)

RP#: 2RP-4632

GPS: 32.8150708, -103.995597

Unit Letter O, Section 34, Township 21 South, Range 25 East

Eddy County, New Mexico

Ms. Pruett /Ms. Tucker,

COG Operating, LLC (COG) is pleased to submit the following work plan in response to a release that occurred at the Tequiza Federal #1 Well Site located in Unit Letter O, Section 34, Township 21 South and Range 25 East in Eddy County, New Mexico.

BACKGROUND

The release was discovered on February 17, 2018 and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The initial C-141 is shown in Appendix A. The crude oil and produced water release occurred when the packing failed on the well. Approximately fifteen (1.5) barrels of oil and fifteen (15) barrels of produced water were released and recovered one (1) barrel of oil and ten (10) barrels of produced water. Majority of the fluids remained on the pad, except for an area north of the pad.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the New Mexico Office of the State Engineer (NMOSE) and the USGS data, the depth to groundwater in the area varies from <50 to 50-100' below surface and may be due to surface elevation change. The Chevron trend map show a depth to water from 50-100' below surface. The water well information is shown in Appendix B.

A risk based evaluation and site determinations were perform 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 in New Mexico (effective August 14, 2018). According to the site characterization

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701 | P 432.683.7443 | F 432.683.7441

evaluation, the area is in a high karst area and 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.)
High Karst	<50 feet

Delineation and Closure Criteria:

Remedial Action Levels (RALs)				
Chlorides	600 mg/kg			
TPH (GRO and DRO and MRO)	100 mg/kg			
TPH (GRO and DRO)	NA			
Benzene	10 mg/kg			
Total BTEX	50 mg/kg			

PROPOSED WORK PLAN

- The areas of T-2 and T-3 will be excavated to a depth of 1.0 and 2.0' below surface, respectively.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with clean backfilled material.

SAMPLING PLAN

Once the excavation is complete, soil confirmation samples will be collected from the excavated areas. To collect representative samples, composite samples (5-point composite) will be collected every 600 square feet (25 x 25) for the final confirmation sampling for the constituents of concern. Based on the proposed excavation areas, we estimate around 8-10 bottom hole samples in a grid pattern. The sidewall composite samples will be collected every 200 square feet. Discrete soil samples will be collected from the excavation if any "hot spots" are encountered during the excavation.

REMEDIATION TIMEFRAME AND ESTIMATED VOLUME

The remediation will be performed 90 days after the work plan has been approved. Approximately 450 cubic yards of soil will be excavated from the impacted area.

SITE RECLAMATION AND RESTORATION

Majority of the fluid remained on the pad, except for a small portion north of the pad. This area will be excavated to a depth of 1.0' below surface. Concho will perform the reclamation and revegetation in the pasture area per NMED 19.15.29.13. Once excavated, soil samples will be collected from the bottom and sidewalls to confirm the removal of impact soil greater than 600 mg/kg chlorides or background (whichever is greater). The backfilled material will be non-contaminated with concentrations below 600 mg/kg chlorides and reseeded per BLM guidelines when appropriate.

Should you have any questions or concerns on the proposed remediation activities, please do not hesitate to contact me.

Sincerely, Concho Operating, LLC

Ike Tavarez, P. G. Senior HSE Supervisor

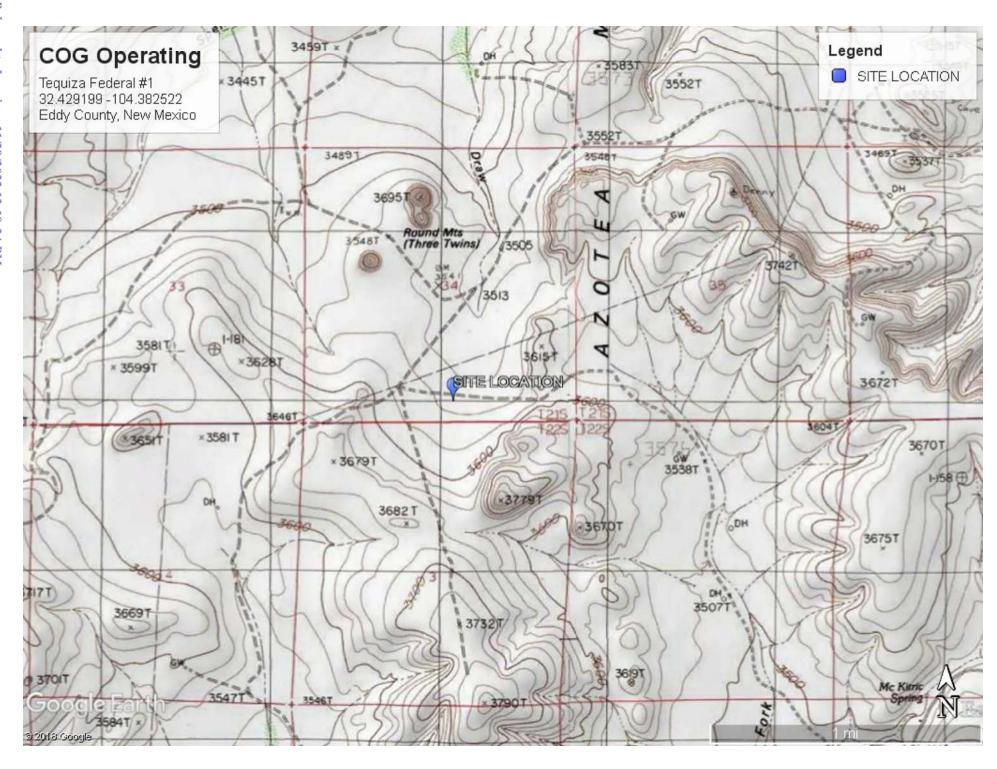
My

itavarez@concho.com

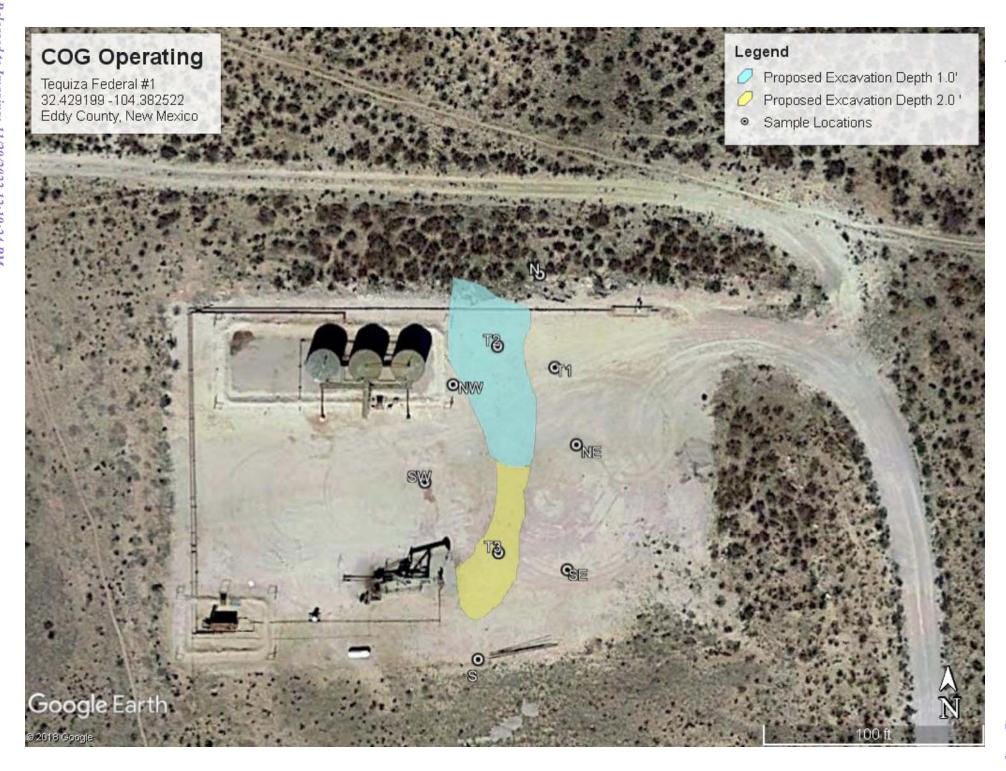
CC:

Figures

Received by OCD: 11/21/2022 8:21:17 AM







Tables

Table 1
COG Operating LLC.
Tequiza Federal #1
Eddy County, New Mexico

Commis ID	Sample Date	Soil Status		TPH (mg/kg)					_	Total BTEX	all 11 (#)		
Sample ID		In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO	Total	Benzene (mg/kg)	(mg/kg)	Chloride (mg/kg)
Average Depth to Grou	ndwater (ft)	50 -100'											
NMOCD RAL Limits (mg/kg)			-	-	-	2,500	-	-	1,000	10	50	10,000
T-1 (6")	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	24.3
T-1 (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	20.4
T-2 (6")	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	8,630
T-2 (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	365
T-3 (6")	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	1,480
T-3 (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	1,600
T-3 (2.0')	3/7/2018	X		-	-	-	-	-	-	-	-	-	503
South (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	13
North (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Northwest (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	26.8
Southwest (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	35.5
Northeast (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	45.8
Southeast (1.0')	3/7/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	229
South -1 (6")	3/19/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	15.2
North -1 (6")	3/20/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
Northwest (6")	3/20/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	28.6
Southwest (6")	3/20/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	30.7
Northeast (6")	3/20/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	48.3
Southeast (6")	3/20/2018	X		ND	ND	ND	ND	ND	ND	ND	ND	0.015	234

Proposed Excavation Depths

(-) Not Analyzed

ND - Not Detected - Below Reporting Limit

Appendix A

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr.

FEB 19 2018

Form C-141 Revised April 3, 2017

Subsection Superiorists District Office in accordance with 19.15.29 NMAC.

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 87505	5	Sa	nta Fe	, NM 875	05					
			Rele	ease Notific	ation	and Co	rrective A	ction				
NABIS	80514	2/041)				OPERA'	ГOR		☐ Initia	al Report		Final Report
71.13212231121077							bert McNeill			<u>F</u>		
				nd TX 79701			No.: 432-683-7 4	143				
Facility Nar	ne: Tequi	za Federal #	# 001			Facility Typ	e: Oil Well					
Surface Ow	ner: BLM			Mineral C	wner: I	Federal			API No	.: 30-015-	35849	
				LOCA	TION	OF RE	LEASE					
				South Line South	Feet from the 2310		est Line ast	County	Edd	y		
			La	titude: 32.4291	992 Lo	ngitude: -1	04.3825226 NA	.D83				
				NAT	URE	OF REL	EASE					
Type of Rele	ase: Oil and	d Produced W	ater	10000	· · · · · · · · · · · · · · · · · · ·	Volume of				Recovered:		
Source of Re	lanca: Stuff	ing Pov					& 15bbls PW lour of Occurrence			& 10bbls P Hour of Dis		,.
	icase. Stuff	ing box				2/17/2018	iour or occurrenc		2/17/2018		covery	•
Was Immedia	ate Notice (Given?	Yes 🗵	I No ⊠ Not Re	equired	If YES, To	Whom?					
By Whom?					Date and Hour:							
Was a Water	course Read	ched?	Yes 🗵] No		If YES, Vo	olume Impacting t	the Wate	rcourse.			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*	-	1					_	
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*								
TT. 1:	C 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 ' 1	1	Sal. 4		1 771 1						
		and Cleanup		the top of the pac cen.*	King gia	ind. The pack	ing was replaced.	•				
All of the flu	id remained	on location.	A vacuum	truck was utilize esent a remediatio								
regulations a public health should their cor the environ	Il operators or the envi operations l nment. In a	are required to ronment. The nave failed to	to report a acceptan adequately DCD accep	e is true and comp nd/or file certain r ce of a C-141 repo v investigate and r otance of a C-141	elease no ort by the emediate	otifications a e NMOCD m e contaminat	nd perform correct arked as "Final Ricon that pose a three the operator of	ctive acti Report" de reat to gr responsi	ons for reloes not relound wate bility for c	eases which ieve the ope r, surface w ompliance	may e erator o eater, hu with an	ndanger f liability ıman health
							OIL CON	SERV	<u>ATION</u>	DIVISION	<u>NC</u>	
Signature:	Sheld	on quito	ín			Approved by	Environmental S	inecialist		. میم		
Printed Name	e: Sheldon	L. Hitchcock						r By	- (1) 14 1	C) Parket od c	#120	
Title: HSE C						Approval Da	te: 2 20 19	8 1	Expiration	Date: N	IA	
E-mail Addre	ess: slhitche	cock@concho	.com			Conditions o	f Approval:	مماا	المما	Attached		allan
Date: 2/19/20	018		Ph	one: 575-746-201	0		Sty W	TTUL	riku		an	14400

Date: 2/19/2018 * Attach Additional Sheets If Necessary

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Incident ID	
District RP	2RP 4632
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data 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 	ls.

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

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Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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Incident ID		

Incident ID	
District RP	2RP 4632
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: Ike Tavarez

Title: Senior HSE Supervisor

Date: 11/4/18

email: itavarez@concho.com

Telephone: 432-683-7443

OCD Only

Received by: Jocelyn Harimon

Date: 11/21/2022

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Incident ID
District RP 2RP 4632
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.					
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.					
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Ike Tavarez Title: Senior HSE Supervisor Date: 11/8/18 Telephone: 432-683-7443					
Telephone. 152 003 7 113					
OCD Only					
Received by: Jocelyn Harimon Date:11/21/2022					
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved					
Signature: Date: 11/29/2022					

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Incident ID	
District RP	2RP 4632
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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Classina Ammorrad his	
Closure Approved by:	Date:

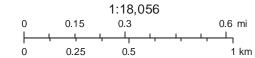
Appendix B



New Mexico NFHL Data



November 12, 2018



FEMA Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

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National Water Information System: Mapper





National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		_
Groundwater 🗸	New Mexico	~	GO

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- Please see news on new formats
- UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read more
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322259104255001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322259104255001 22S.25E.19.21411

Available data for this site Groundwater: Field measurements V

Eddy County, New Mexico Hydrologic Unit Code --

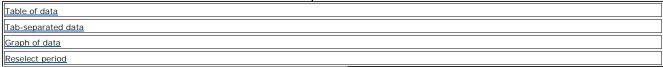
Latitude 32°22'59", Longitude 104°25'50" NAD27

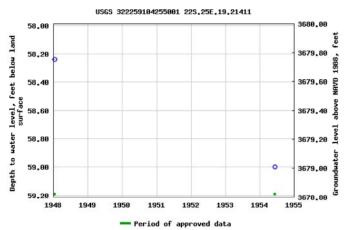
Land-surface elevation 3,738 feet above NAVD88

The depth of the well is 75 feet below land surface.

This well is completed in the Yates Formation, Guadalupe Group (313YATS) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		_
Groundwater 🗸	New Mexico	~	GO

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- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322310104211701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322310104211701 22S.25E.13.33320

Available data for this site Groundwater: Field measurements V GO Eddy County, New Mexico

Hydrologic Unit Code --

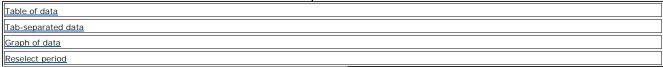
Latitude 32°23'10", Longitude 104°21'17" NAD27

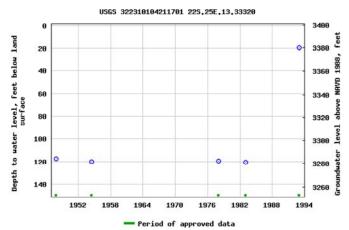
Land-surface elevation 3,401 feet above NAVD88

The depth of the well is 160 feet below land surface.

This well is completed in the Yates Formation, Guadalupe Group (313YATS) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		_
Groundwater 🗸	New Mexico	~	GO

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- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322411104243501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322411104243501 22S.25E.08.441222

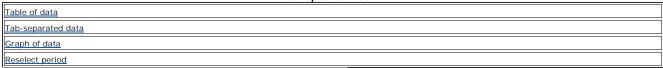
Available data for this site Groundwater: Field measurements V GO
Eddy County, New Mexico
Hydrologic Unit Code --

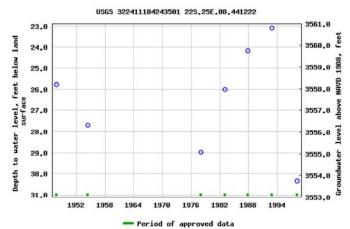
Latitude 32°24'11", Longitude 104°24'35" NAD27 Land-surface elevation 3,584 feet above NAVD88

The depth of the well is 43 feet below land surface.

This well is completed in the Yates Formation, Guadalupe Group (313YATS) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater ~	New Mexico	~	GO

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- UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read more
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322703104215601

Minimum number of levels = 1

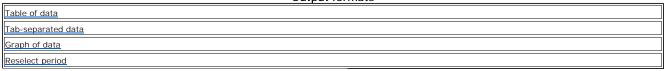
Save file of selected sites to local disk for future upload

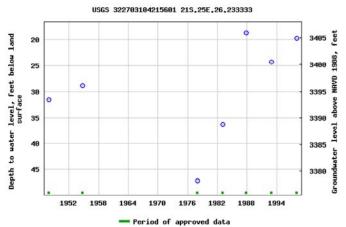
USGS 322703104215601 21S.25E.26.233333

Available data for this site Groundwater: Field measurements V GO Eddy County, New Mexico Hydrologic Unit Code -- Latitude 32°27'03", Longitude 104°21'56" NAD27 Land-surface elevation 3,425 feet above NAVD88

The depth of the well is 125 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

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- UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read more
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322411104243501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322411104243501 22S.25E.08.441222

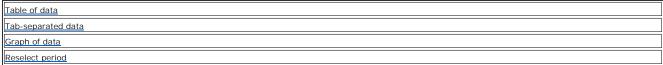
Available data for this site Groundwater: Field measurements V GO
Eddy County, New Mexico
Hydrologic Unit Code -Latitude 32°24'11", Longitude 104°24'35" NAD27

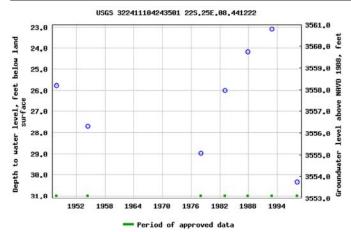
Land-surface elevation 3,584 feet above NAVD88

The depth of the well is 43 feet below land surface.

This well is completed in the Yates Formation, Guadalupe Group (313YATS) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		_
Groundwater 🗸	New Mexico	~	GO

Click to hideNews Bulletins

- Please see news on new formats
- UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read more
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322259104255001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322259104255001 22S.25E.19.21411

Available data for this site Groundwater: Field measurements V GC

Eddy County, New Mexico Hydrologic Unit Code --

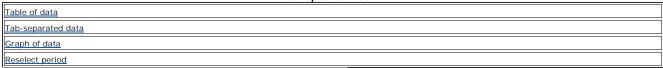
Latitude 32°22'59", Longitude 104°25'50" NAD27

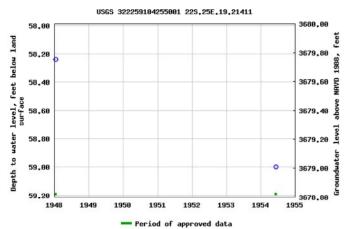
Land-surface elevation 3,738 feet above NAVD88

The depth of the well is 75 feet below land surface.

This well is completed in the Yates Formation, Guadalupe Group (313YATS) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	0	0							W	ater
POD Number	Code		County				Sec	Tws	Rng	X	Y	DepthWellDepthW		
<u>C 00107</u>		CUB	ED	4	3	3	09	21S	25E	555822	3594647*	300		
<u>C_00384</u>		C	ED	1	4	1	17	21S	25E	554431	3593935	994	220	774
C 00384 CLW201180	O	C	ED	3	2	1	17	21S	25E	554411	3594236*	994	220	774
C 00384 CLW201207	O	C	ED	3	2	1	17	21S	25E	554411	3594236*	994	220	774
<u>C 00550</u>		C	ED	1	1	2	11	21S	25E	559689	3596136*	97		
<u>C 00885</u>		C	ED	3	4	2	05	21S	25E	555204	3597091*	348		
C 00885 POD2		C	ED	3	4	2	05	21S	25E	555204	3597091*	379	348	31
<u>C 01041</u>		C	ED	3	3	3	03	21S	25E	557260	3596343*	85	65	20
<u>C 01166</u>		C	ED		1	3	11	21S	25E	558976	3595176*	550		
<u>C 01399</u>		C	LE	3	3	2	15	21S	25E	558068	3593839*	200		
<u>C 01451</u>		C	ED		3	3	22	21S	25E	557373	3591507*	290	260	30
<u>C_01455</u>		C	ED		3	2	26	21S	25E	559780	3590713*	125	90	35
<u>C 01456</u>	R	C	ED		2	2	33	21S	25E	557012	3589339	60	17	43
C 01456 POD2		C	ED	4	2	2	33	21S	25E	557012	3589339	80	60	20
<u>C 01470</u>		C	ED		2	4	06	21S	25E	553698	3596774*	284	264	20
<u>C 02066</u>		C	ED	3	3	3	04	21S	25E	555616	3596280*	120	97	23
<u>C 02268</u>		CUB	ED	1	4	3	11	21S	25E	559277	3594853*	30	25	5
<u>C 02643</u>		C	ED		3	3	03	21S	25E	557361	3596444*	145	33	112
<u>C 02731</u>		C	ED	1	3	4	18	21S	25E	553218	3593208*	233	60	173
C 03618 POD1		C	ED	2	2	1	03	21S	25E	557943	3597754	160	80	80
										1	Average Depth t	o Water:	137 feet	t
											Minimu	ım Depth:	17 feet	t

Maximum Depth:

348 feet

Record Count: 20

PLSS Search:

Township: 21S

Range: 25E

*UTM location was derived from PLSS - see Help

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

11/12/18 9:20 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD Sub-		0	Q	0							XX:	7.4
POD Number	Code		County					Tws	Rng	X	Y	DepthWellDepthW		ater lumn
<u>C 00959</u>		С	ED	1	1	1	27	22S	25E	557349	3581495*			
<u>C 00960</u>		C	ED	3	1	2	28	22S	25E	556534	3581303*	69	52	17
<u>C 00961</u>		C	ED	4	1	2	19	22S	25E	553461	3582890*	80	60	20
C 00988		C	ED			4	01	22S	25E	561503	3586854*	55	20	35
<u>C 01288</u>		C	ED		1	4	20	22S	25E	554996	3582193*	800		
<u>C 01492</u>		C	ED	1	2	4	30	22S	25E	553689	3580659*			
<u>C_01738</u>		C	ED	4	2	3	16	22S	25E	556273	3583728*	204		
C 01758		C	ED	4	2	3	16	22S	25E	556273	3583728*			
<u>C 01856</u>		C	ED			4	09	22S	25E	556774	3585236*	460		
<u>C 02362</u>		CUB	ED	1	3	3	29	22S	25E	554108	3580247*	83	60	23
<u>C 02874</u>		C	ED	4	3	2	11	22S	25E	559796	3585738*	740	385	355
C 03552 POD1		C	ED	4	4	2	15	22S	25E	558548	3584192	250	150	100

Average Depth to Water:

121 feet

Minimum Depth:

20 feet

Maximum Depth:

385 feet

Record Count: 12

PLSS Search:

Township: 22S

Range: 25E

*UTM location was derived from PLSS - see Help

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

11/12/18 9:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater ~	New Mexico	~	GO

Click to hideNews Bulletins

- · Please see news on new formats
- UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read more
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322715104144501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322715104144501 21S.26E.25.14241

Available data for this site Groundwater: Field measurements Eddy County, New Mexico

Hydrologic Unit Code --

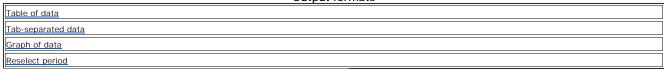
Latitude 32°27'15", Longitude 104°14'45" NAD27

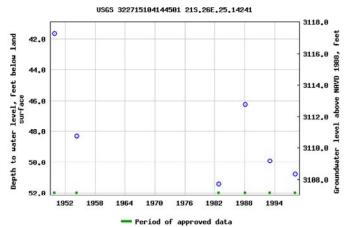
Land-surface elevation 3,159 feet above NAVD88

The depth of the well is 464 feet below land surface.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

Output formats





Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Appendix C

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
2M Environmental Services, LLC.
1219 W. University Blvd.
Odessa, TEXAS 79764

Project: COG Tequiza Federal 001H

Project Number: [none]
Location: Eddy County NM

Lab Order Number: 8C14004



NELAP/TCEQ # T104704516-17-8

Report Date: 03/21/18

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 @ 6"	8C14004-01	Soil	03/07/18 09:05	03-14-2018 09:15
T-1 @1'	8C14004-02	Soil	03/07/18 09:07	03-14-2018 09:15
T-2 @ 6"	8C14004-03	Soil	03/07/18 09:15	03-14-2018 09:15
T-2 @ 1'	8C14004-04	Soil	03/07/18 09:20	03-14-2018 09:15
T-3 @ 6"	8C14004-05	Soil	03/07/18 09:40	03-14-2018 09:15
T-3 @ 1'	8C14004-06	Soil	03/07/18 09:47	03-14-2018 09:15
South-1@1'	8C14004-07	Soil	03/07/18 10:00	03-14-2018 09:15
North-1@1'	8C14004-08	Soil	03/07/18 10:15	03-14-2018 09:15
Northwest-1@1'	8C14004-09	Soil	03/07/18 10:25	03-14-2018 09:15
Southwest-2@1'	8C14004-10	Soil	03/07/18 10:35	03-14-2018 09:15
Northeast-1@1'	8C14004-11	Soil	03/07/18 11:00	03-14-2018 09:15
Southeast-2@1'	8C14004-12	Soil	03/07/18 11:45	03-14-2018 09:15

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

Project Number: [none]
Project Manager: Matt Green

1219 W. University Blvd. Odessa TEXAS, 79764

> T-1 @ 6'' 8C14004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	nvironmen	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA / St	tandard Metho	ds							
Chloride	24.3	1.08	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 8	015M							
C6-C12	ND	26.9	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

T-1 @1' 8C14004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	nvironmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		71.3 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		110 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	20.4	1.09	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	27.2	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

T-2 @ 6" 8C14004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00112	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.6 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ds							
Chloride	8630	28.1	mg/kg dry	25	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	28.1	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

T-2 @ 1' 8C14004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8C1504	03/15/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		65.8 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		101 %	75-1	25	P8C1504	03/15/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	365	1.14	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	28.4	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

T-3 @ 6" 8C14004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ntal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-1	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.8 %	75-1	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ds							
Chloride	1480	5.43	mg/kg dry	5	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	27.2	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

T-3 @ 1' 8C14004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, l	⊑.P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.5 %	75-1.	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-1.	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ds						-	
Chloride	1600	5.56	mg/kg dry	5	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-1.	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		99.1 %	70-1.	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

South-1@1' 8C14004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u> </u>	Pern	nian Basin E	Environmer	ıtal Lab, l	L.P.	•			
Organics by GC									
Benzene	ND	0.0208	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Toluene	ND	0.208	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.104	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.417	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.208	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.4 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ds							
Chloride	13.0	1.04	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	4.0	0.1	%	1	P8C1503	03/15/18	03/15/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	26.0	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		91.2 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		94.9 %	70-1	30	P8C1507	03/15/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/15/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

North-1@1' 8C14004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
y		nian Basin E					y 200		
Organics by GC				,					
Benzene	ND	0.0215	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Toluene	ND	0.215	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.108	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.430	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.215	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.8 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Metho	ds							
Chloride	ND	1.08	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8C1609	03/16/18	03/16/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 8	015M							
C6-C12	ND	26.9	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/16/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Northwest-1@1' 8C14004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.0225	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Toluene	ND	0.225	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.112	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.449	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.225	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		157 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	28.6	1.12	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8C1609	03/16/18	03/16/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 80)15M							
C6-C12	ND	28.1	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	03/16/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Southwest-2@1' 8C14004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-1	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-1	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	35.3	1.14	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8C1609	03/16/18	03/16/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	28.4	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	S-GO
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	03/16/18	03/16/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Northeast-1@1' 8C14004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.0225	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Toluene	ND	0.225	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.112	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.449	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.225	mg/kg dry	20	P8C1610	03/16/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		138 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		100 %	75-1	25	P8C1610	03/16/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ds							
Chloride	45.8	1.12	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8C1609	03/16/18	03/16/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	oy EPA Method 80	015M							
C6-C12	ND	28.1	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	03/16/18	03/16/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Southeast-2@1' 8C14004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.5 %	75-1	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-1	25	P8C1610	03/16/18	03/16/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ls							
Chloride	229	1.14	mg/kg dry	1	P8C1903	03/19/18	03/20/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8C1609	03/16/18	03/16/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80)15M							
C6-C12	ND	28.4	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-1	30	P8C1603	03/16/18	03/16/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	03/16/18	03/16/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P8C1504 - General Preparatio	()									
Blank (P8C1504-BLK1)				Prepared &	Analyzed	: 03/15/18				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0640		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0869		"	0.0600		145	75-125			S-GC
LCS (P8C1504-BS1)				Prepared &	Analyzed	: 03/15/18				
Benzene	0.0986	0.00100	mg/kg wet	0.100		98.6	70-130			
Toluene	0.109	0.0100	"	0.100		109	70-130			
Ethylbenzene	0.117	0.00500	"	0.100		117	70-130			
Xylene (p/m)	0.211	0.0200	"				70-130			
Xylene (o)	0.116	0.0100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0562		"	0.0600		93.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0669		"	0.0600		112	75-125			
LCS Dup (P8C1504-BSD1)				Prepared &	Analyzed	: 03/15/18				
Benzene	0.0979	0.00100	mg/kg wet	0.100		97.9	70-130	0.733	20	
Toluene	0.112	0.0100	"	0.100		112	70-130	2.39	20	
Ethylbenzene	0.110	0.00500	"	0.100		110	70-130	6.26	20	
Xylene (p/m)	0.215	0.0200	"				70-130		20	
Xylene (o)	0.113	0.0100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0638		"	0.0600		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.0536		"	0.0600		89.4	75-125			
Matrix Spike (P8C1504-MS1)	Sour	rce: 8C14004	1-04	Prepared: 03	3/15/18 A	nalyzed: 03	3/16/18			
Benzene	0.0985	0.00114	mg/kg dry	0.114	ND	86.7	80-120			
Toluene	0.0885	0.0114	"	0.114	ND	77.9	80-120			
Ethylbenzene	0.104	0.00568	"	0.114	ND	91.2	80-120			
Xylene (p/m)	0.180	0.0227	"		ND		80-120			
Xylene (o)	0.0986	0.0114	"		ND		80-120			
Surrogate: 4-Bromofluorobenzene	0.0898		"	0.0682		132	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0733		"	0.0682		107	75-125			

Permian Basin Environmental Lab, L.P.

RPD

%REC

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Spike

Source

Reporting

Between	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Benzene	Batch P8C1610 - General Preparatio	n (GC)									
Toluene ND 0.0000 " " Ethiylenzene ND 0.00000 " " " " " " " " " " " " " " " "	Blank (P8C1610-BLK1)				Prepared &	Analyzed:	03/16/18				
No. No.	Benzene	ND	0.00100	mg/kg wet							
No	Toluene	ND	0.0100	"							
No	Ethylbenzene	ND	0.00500	"							
Surrogaie: 1,4-Diffuorobenzene	Xylene (p/m)	ND	0.0200	"							
Surrogate:	Xylene (o)	ND	0.0100	"							
Prepared & Analyzed: 03/16/18 Prepared: 03/16/18 Prepared: 03/16/18 Prepared: 03/16/18 Prepared: 03/16/18 Prepared	Surrogate: 4-Bromofluorobenzene	0.0755		"	0.0600		126	75-125			S-GO
Benzene 0.108 0.0010 mg/kg wet 0.100 108 70-130 70	Surrogate: 1,4-Difluorobenzene	0.0585		"	0.0600		97.5	75-125			
Toluene 0.115 0.0100 " 0.100 115 70-130	LCS (P8C1610-BS1)				Prepared &	Analyzed:	03/16/18				
State Stat	Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
Xylene (p/m)	Toluene	0.115	0.0100	"	0.100		115	70-130			
Name	Ethylbenzene	0.118	0.00500	"	0.100		118	70-130			
No. 126 1.0.0000 1.0.00000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.0000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.00000 1.0.0000000000	Xylene (p/m)	0.218	0.0200	"				70-130			
Note	Xylene (o)	0.120	0.0100	"				70-130			
Description	Surrogate: 4-Bromofluorobenzene	0.0747		"	0.0600		125	75-125			
Benzene 0.0967 0.00100 mg/kg wet 0.100 96.7 70-130 11.5 20 Toluene 0.108 0.0100 " 0.100 108 70-130 6.70 20 Ethylbenzene 0.109 0.00500 " 0.100 109 70-130 8.01 20 Xylene (p/m) 0.215 0.0200 " 70-130 20 Xylene (o) 0.116 0.0100 " 0.06600 109 75-125 Surrogate: 4-Bromofluorobenzene 0.0561 " 0.06600 109 75-125 Matrix Spike (P8C1610-MS1) Source: 8C14005-10 Prepared: 03/16/18 Analyzed: 03/17/18 Benzene 0.0886 0.00106 mg/kg dry 0.106 ND 83.3 80-120 Toluene 0.0861 0.0106 " 0.106 ND 80.9 80-120 Ethylbenzene 0.0992 0.0106 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 1007 75-125 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 1007 75-125	Surrogate: 1,4-Difluorobenzene	0.0560		"	0.0600		93.3	75-125			
Toluene 0.108 0.0100 " 0.100 108 70-130 6.70 20 Ethylbenzene 0.109 0.00500 " 0.100 109 70-130 8.01 20 Xylene (p/m) 0.215 0.0200 " 70-130 20 Xylene (o) 0.116 0.0100 " 70-130 20 Surrogate: 4-Bromofluorobenzene 0.0652 " 0.0600 109 75-125 Surrogate: 1,4-Difluorobenzene 0.0561 " 0.0600 93.6 75-125 Matrix Spike (P8C1610-MS1) Source: 8C14005-10 Prepared: 03/16/18 Analyzed: 03/17/18 Benzene 0.0886 0.0016 mg/kg dry 0.106 ND 83.3 80-120 Toluene 0.0861 0.0106 " 0.106 ND 80.9 80-120 Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	LCS Dup (P8C1610-BSD1)				Prepared &	Analyzed:	03/16/18				
Ethylbenzene 0.109 0.00500 " 0.100 109 70-130 8.01 20 Xylene (p/m) 0.215 0.0200 " 70-130 20 Xylene (o) 0.116 0.0100 " 70-130 20 Surrogate: 4-Bromofluorobenzene 0.0652 " 0.0600 109 75-125 Surrogate: 1,4-Difluorobenzene 0.0561 " 0.0600 93.6 75-125 Surrogate: 4-Bromofluorobenzene 0.0886 0.00106 mg/kg dry 0.106 ND 83.3 80-120 Toluene 0.0886 0.00106 " 0.106 ND 80.9 80-120 Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	70-130	11.5	20	
Xylene (p/m) 0.215 0.0200 " 70-130 20 20	Toluene	0.108	0.0100	"	0.100		108	70-130	6.70	20	
Xylene (o) 0.116 0.0100 " 70-130 20 20 20 20 20 20 20	Ethylbenzene	0.109	0.00500	"	0.100		109	70-130	8.01	20	
Surrogate: 4-Bromofluorobenzene 0.0652 " 0.0600 109 75-125	Xylene (p/m)	0.215	0.0200	"				70-130		20	
Surrogate: 1,4-Diffuorobenzene 0.0561 " 0.0600 93.6 75-125 Matrix Spike (P8C1610-MS1) Source: 8C14005-10 Prepared: 03/16/18 Analyzed: 03/17/18 Benzene 0.0886 0.00106 mg/kg dry 0.106 ND 83.3 80-120 Toluene 0.0861 0.0106 " 0.106 ND 97.7 80-120 Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND ND 80-120 Xylene (o) 0.0992 0.0106 " ND ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Xylene (o)	0.116	0.0100	"				70-130		20	
Matrix Spike (P8C1610-MS1) Source: 8C14005-10 Prepared: 03/16/18 Analyzed: 03/17/18 Benzene 0.0886 0.00106 mg/kg dry 0.106 ND 83.3 80-120 Toluene 0.0861 0.0106 " 0.106 ND 80.9 80-120 Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Surrogate: 4-Bromofluorobenzene	0.0652		"	0.0600		109	75-125			
Benzene 0.0886 0.00106 mg/kg dry 0.106 ND 83.3 80-120 Toluene 0.0861 0.0106 " 0.106 ND 80.9 80-120 Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Surrogate: 1,4-Difluorobenzene	0.0561		"	0.0600		93.6	75-125			
Toluene 0.0861 0.0106 " 0.106 ND 80.9 80-120 Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Matrix Spike (P8C1610-MS1)	Sour	rce: 8C14005	5-10	Prepared: (03/16/18 A	nalyzed: 03	3/17/18			
Ethylbenzene 0.104 0.00532 " 0.106 ND 97.7 80-120 Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Benzene	0.0886	0.00106	mg/kg dry	0.106	ND	83.3	80-120			
Xylene (p/m) 0.195 0.0213 " ND 80-120 Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Toluene	0.0861	0.0106	"	0.106	ND	80.9	80-120			
Xylene (o) 0.0992 0.0106 " ND 80-120 Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Ethylbenzene	0.104	0.00532	"	0.106	ND	97.7	80-120			
Surrogate: 4-Bromofluorobenzene 0.0683 " 0.0638 107 75-125	Xylene (p/m)	0.195	0.0213	"		ND		80-120			
surroguie. 4-bromojiuorobenzene 0.0005 0.005	Xylene (o)	0.0992	0.0106	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene 0.0650 " 0.0638 102 75-125	Surrogate: 4-Bromofluorobenzene	0.0683		"	0.0638		107	75-125			
	Surrogate: 1,4-Difluorobenzene	0.0650		"	0.0638		102	75-125			

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Fax:

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P8C1610 - General Preparation (GC)

Matrix Spike Dup (P8C1610-MSD1)	Sour	Prepared: 0	3/16/18 A	3/17/18					
Benzene	0.0864	0.00106	mg/kg dry	0.106	ND	81.2	80-120	2.58	20
Toluene	0.0862	0.0106	"	0.106	ND	81.1	80-120	0.173	20
Ethylbenzene	0.102	0.00532	"	0.106	ND	96.0	80-120	1.83	20
Xylene (p/m)	0.194	0.0213	"		ND		80-120		20
Xylene (o)	0.0982	0.0106	"		ND		80-120		20
Surrogate: 1,4-Difluorobenzene	0.0737		"	0.0638		115	75-125		
Surrogate: 4-Bromofluorobenzene	0.0797		"	0.0638		125	75-125		

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C1503 - *** DEFAULT PREP ***										
Blank (P8C1503-BLK1)				Prepared &	Analyzed:	03/15/18				
% Moisture	ND	0.1	%							
Duplicate (P8C1503-DUP1)	Sour	ce: 8C13007-	08	Prepared &	Analyzed:	03/15/18				
% Moisture	9.0	0.1	%		8.0			11.8	20	
Duplicate (P8C1503-DUP2)	Sour	ce: 8C13009-	19	Prepared &	Analyzed:	03/15/18				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P8C1503-DUP3)	Sour	ce: 8C14002-	16	Prepared &	Analyzed:	03/15/18				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P8C1503-DUP4)	Sour	ce: 8C14004-	07	Prepared &	Analyzed:	03/15/18				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Batch P8C1609 - *** DEFAULT PREP ***										
Blank (P8C1609-BLK1)				Prepared &	Analyzed:	03/16/18				
% Moisture	ND	0.1	%							
Batch P8C1903 - *** DEFAULT PREP ***										
Blank (P8C1903-BLK1)				Prepared: ()3/19/18 A	nalyzed: 03	/20/18			
Chloride	ND	1.00	mg/kg wet							
LCS (P8C1903-BS1)				Prepared: (03/19/18 A	nalyzed: 03	/20/18			
Chloride	417	1.00	mg/kg wet	400		104	80-120			

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C1903 - *** DEFAULT PREP ***										
LCS Dup (P8C1903-BSD1)				Prepared: 0	3/19/18 A	Analyzed: 03	/20/18			
Chloride	415	1.00	mg/kg wet	400		104	80-120	0.534	20	
Duplicate (P8C1903-DUP1)	Sour	rce: 8C14003	3-11	Prepared: 0	3/19/18 A	Analyzed: 03	/20/18			
Chloride	4120	10.8	mg/kg dry		4070			1.21	20	
Duplicate (P8C1903-DUP2)	Sou	rce: 8C14004	l-09	Prepared: 0	3/19/18 A	Analyzed: 03	/20/18			
Chloride	28.0	1.12	mg/kg dry		28.6			2.11	20	
Matrix Spike (P8C1903-MS1)	Sour	rce: 8C14003	3-11	Prepared: 0	3/19/18 A	Analyzed: 03	/20/18			
Chloride	5290	10.8	mø/kø dry	1080	4070	114	80-120			

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C1507 - General Preparation (GC)										
Blank (P8C1507-BLK1)				Prepared: (03/15/18 A	nalyzed: 03	/16/18			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	67.8		"	50.0		136	70-130			
LCS (P8C1507-BS1)				Prepared: (03/15/18 A	nalyzed: 03	/16/18			
C6-C12	1130	25.0	mg/kg wet	1000		113	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			
LCS Dup (P8C1507-BSD1)				Prepared: (03/15/18 A	nalyzed: 03	/16/18			
C6-C12	1130	25.0	mg/kg wet	1000		113	75-125	0.166	20	
>C12-C28	1110	25.0	"	1000		111	75-125	0.133	20	
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			
Matrix Spike (P8C1507-MS1)	Sou	rce: 8C14002	2-19	Prepared: (03/15/18 A	nalyzed: 03	/16/18			
C6-C12	1020	26.3	mg/kg dry	1050	13.3	95.5	75-125			
>C12-C28	993	26.3	"	1050	38.5	90.7	75-125			
Surrogate: 1-Chlorooctane	128		"	105		121	70-130			
Surrogate: o-Terphenyl	61.6		"	52.6		117	70-130			
Matrix Spike Dup (P8C1507-MSD1)	Sou	rce: 8C14002	2-19	Prepared: (03/15/18 A	nalyzed: 03	/16/18			
C6-C12	1040	26.3	mg/kg dry	1050	13.3	97.1	75-125	1.66	20	
>C12-C28	1010	26.3	"	1050	38.5	91.9	75-125	1.29	20	
Surrogate: 1-Chlorooctane	129		"	105		122	70-130			
Surrogate: o-Terphenyl	62.3		"	52.6		118	70-130			

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd. Project Number: [none]
Odessa TEXAS, 79764 Project Manager: Matt Green

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darlor			
Report Approved By:			Date:	3/21/2018	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

Received by OCD: 11/21/2022 8:21:17 AM TAT brebnet2 NPDES ENI ST ,84 ,45 (etubachez-arg) TAT HRUS COG Tequiza Federal 001H Chlorides E 300 Eddy County, NM Phone: 432-661-4184 ☐ TRRP M.S.O.I BCI Labels on container(s) Custody seals on container(s) by Samplen/Client Rep. ?
by Courier? UPS*
femperature Upon Receipt Custody seals on cooler(s) × × × × × × BIEX 8021 BY 5030 or BIEX 8260 VOCs Free of Headspace? Received: $4.0~0.4^\circ$ C Adjusted: $4.0~0.4^\circ$ C Analyze For Laboratory Comments Sample Hand Delivered X Standard Watala: As Ag Ba Cd Ct Pb Hg Se 디디 TOTAL: SAR / ESP / CEC /ujous (Cl, SO4, Alkalinity) PO # Project Loc: Project Name: Project #: Cations (Ca, Mg, Na, K) Report Format: 8001 XT LX 1002 EX 8,30 ime 8015M (M8108 × × I BLV HdJ × × ဟ ഗ ഗ ഗ ഗ ഗ ഗ ഗ ഗ ഗ GW = Groundweler S=Soll/Solid mgreen@2m-environmental.com Permian Basin Environmental Lab, LP Ofher (Spacify) 10014 S. County Road 1213 ^eO^zS^zeN HOPN Midland, Texas 79706 [‡]OS^zH HCI [€]ONH CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 901 × × × × × × × Received by: Total Mul M otal #. of Containers beretiiii bisi Fax No: e-mail: 1015 1025 1035 1000 915 940 905 920 947 907 Time Sampled 3/7/2018 3/7/2018 3/7/2018 3/7/2018 3/7/2018 3/7/2018 3/7/2018 3/7/2018 3/7/2018 3/7/2018 Date Sampled finding Depth 2M Environmental Services, LLC. Atqed prinnigeB Company Address: 1219 W. University Blvd Odessa, Texas 79764 (432)230-3763 Northwest-1 @ 1' Southwest-2 @ 1 Matt Green North-1 @ 1' FIELD CODE South-1 @ 1 T-3 @ 6" T-1@6" 1.100 T-2 @ 6" T-2@1 T-3@1 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: ORDER#: (lab use only (vino esu dai) # 8A. Page 22 of

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ES	2M Enviror		Odessa, To	(432)230-3763	e:					FIELD CODE	Northeast-1 @ 1	Southeast-2 @ 1										J. S.		
ESEVERAL Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:					36	North	South								nt:			Ru Win	
P P IN	Comp	Comp	City/S	Telept	Sampl	(kjua	i O			gw a i										Special Instructions:	13 60		nqulahed by:	nquished by:
						(lab use only)	ORDER #		# (lsp nze ouly)	841	4	3								Special	- Activities	Page	23 of	

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
2M Environmental Services, LLC.
1219 W. University Blvd.
Odessa, TEXAS 79764

Project: COG Tequiza Federal 001H

Project Number: [none]
Location: Eddy County, NM

Lab Order Number: 8C20016



NELAP/TCEQ # T104704516-17-8

Report Date: 04/13/18

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South-1 @6"	8C20016-01	Soil	03/19/18 09:00	03-20-2018 15:10
North-1 @6"	8C20016-02	Soil	03/19/18 09:05	03-20-2018 15:10
Northwest-1 @6"	8C20016-03	Soil	03/19/18 09:10	03-20-2018 15:10
Southwest -2 @6"	8C20016-04	Soil	03/19/18 09:15	03-20-2018 15:10
Northeast -1 @6"	8C20016-05	Soil	03/19/18 09:20	03-20-2018 15:10
Southeast -2 @6"	8C20016-06	Soil	03/19/18 09:25	03-20-2018 15:10

2M Environmental Services, LLC.

Project: COG Tequiza Federal 001H

1219 W. University Blvd. Odessa TEXAS, 79764 Project Number: [none]
Project Manager: Matt Green

South-1 @6" 8C20016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
						p.m.vu			- 10105
	Perm	ian Basin E	Environmen	tal Lab, l	∟.P.				
Organics by GC									
Benzene	ND	0.0204	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Toluene	ND	0.204	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.102	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.408	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.204	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-1.	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.3 %	75-1.	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	s							
Chloride	15.2	1.02	mg/kg dry	1	P8C2017	03/20/18	03/21/18	EPA 300.0	
% Moisture	2.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		77.1 %	70-1.	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: o-Terphenyl		82.2 %	70-1.	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/20/18	03/20/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

North-1 @6" 8C20016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		158 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Method	ds							
Chloride	1.38	1.06	mg/kg dry	1	P8C2017	03/20/18	03/21/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	26.6	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		82.9 %	70-1	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: o-Terphenyl		89.8 %	70-1	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/20/18	03/20/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Northwest-1 @6" 8C20016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, l	Ĺ. P.				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		163 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		104 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ds							
Chloride	28.6	1.09	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	27.2	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		88.5 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Southwest -2 @6" 8C20016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironmen	ıtal Lab, I	P.		_		
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	<u>s</u>							
Chloride	30.7	1.11	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		74.9 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		78.0 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Northeast -1 @6'' 8C20016-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	ND	0.0222	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Toluene	ND	0.222	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.111	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.444	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.222	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-1	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		132 %	75-1	25	P8C2014	03/20/18	03/21/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA / S	Standard Metho	ds							
Chloride	48.3	1.11	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 8	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		78.1 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		82.0 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Southeast -2 @6" 8C20016-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	L.P.				
Organics by GC				-		-	-		
Benzene	ND	0.00111	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Ethylbenzene	0.0150	0.00556	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.3 %	75-1.	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		76.7 %	75-1.	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ds							
Chloride	234	1.11	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		79.1 %	70-1.	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		82.3 %	70-1.	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

2M Environmental Services, LLC.

Project Number: [none]
Project Manager: Matt Green

1219 W. University Blvd. Odessa TEXAS, 79764

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

Project: COG Tequiza Federal 001H

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8C2014 - General Preparation	(GC)									
Blank (P8C2014-BLK1)	(00)			Prepared &	z Analyzed:	03/20/18				
Benzene	ND	0.00100	mg/kg wet	<u> </u>						
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0574		"	0.0600		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0780		"	0.0600		130	75-125			S-GC
LCS (P8C2014-BS1)				Prepared &	Analyzed:	03/20/18				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.103	0.0100	"	0.100		103	70-130			
Ethylbenzene	0.111	0.00500	"	0.100		111	70-130			
Xylene (p/m)	0.220	0.0200	"				70-130			
Xylene (o)	0.118	0.0100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0592		"	0.0600		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0731		"	0.0600		122	75-125			
LCS Dup (P8C2014-BSD1)				Prepared &	Analyzed:	03/20/18				
Benzene	0.0920	0.00100	mg/kg wet	0.100		92.0	70-130	10.5	20	
Toluene	0.101	0.0100	"	0.100		101	70-130	2.11	20	
Ethylbenzene	0.109	0.00500	"	0.100		109	70-130	2.36	20	
Xylene (p/m)	0.210	0.0200	"				70-130		20	
Xylene (o)	0.119	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0597		"	0.0600		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0660		"	0.0600		110	75-125			
Matrix Spike (P8C2014-MS1)	Sou	rce: 8C20020	0-01	Prepared: (03/20/18 A	nalyzed: 03	3/21/18			
Benzene	0.0689	0.00101	mg/kg dry	0.101	ND	68.2	80-120			QM-05
Toluene	0.0566	0.0101	"	0.101	ND	56.1	80-120			QM-05
Ethylbenzene	0.0530	0.00505	"	0.101	ND	52.5	80-120			QM-05
Xylene (p/m)	0.0883	0.0202	"		0.00225		80-120			
Xylene (o)	0.0408	0.0101	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0606		102	75-125			

Permian Basin Environmental Lab, L.P.

Surrogate: 4-Bromofluorobenzene

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

109

75-125

0.0606

0.0661

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd. Project Number: [none] Odessa TEXAS, 79764 Project Manager: Matt Green

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P8C2014 - General Preparation (GC)

Matrix Spike Dup (P8C2014-MSD1)	Sour	ce: 8C20020)-01	Prepared: (03/20/18 Ar	nalyzed: 03	3/21/18			
Benzene	0.0782	0.00101	mg/kg dry	0.101	ND	77.4	80-120	12.7	20	QM-05
Toluene	0.0724	0.0101	"	0.101	ND	71.7	80-120	24.4	20	QM-05
Ethylbenzene	0.0787	0.00505	"	0.101	ND	77.9	80-120	39.0	20	QM-05
Xylene (p/m)	0.133	0.0202	"		0.00225		80-120		20	
Xylene (o)	0.0687	0.0101	"		ND		80-120		20	
Surrogate: 1,4-Difluorobenzene	0.0678		"	0.0606		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0703		"	0.0606		116	75-125			

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analysis	D14	Reporting	11	Spike	Source	0/DEC	%REC	DDD	RPD	NI-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C2017 - *** DEFAULT PREP ***										
Blank (P8C2017-BLK1)				Prepared &	Analyzed:	03/20/18				
Chloride	ND	1.00	mg/kg wet							
LCS (P8C2017-BS1)				Prepared &	Analyzed:	03/20/18				
Chloride	415	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P8C2017-BSD1)				Prepared &	Analyzed:	03/20/18				
Chloride	414	1.00	mg/kg wet	400	-	103	80-120	0.290	20	
Duplicate (P8C2017-DUP1)	Sour	ce: 8C16011	-15	Prepared &	Analyzed:	03/20/18				
Chloride	622	1.09	mg/kg dry		614			1.18	20	
Duplicate (P8C2017-DUP2)	Sour	rce: 8C20014	l-01	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
Chloride	228	1.04	mg/kg dry		230			0.769	20	
Matrix Spike (P8C2017-MS1)	Sour	ce: 8C16011	-15	Prepared &	Analyzed:	03/20/18				
Chloride	1750	1.09	mg/kg dry	1090	614	105	80-120			
Batch P8C2018 - *** DEFAULT PREP ***										
Blank (P8C2018-BLK1)				Prepared: (03/20/18 A	nalyzed: 03	/21/18			
Chloride	ND	1.00	mg/kg wet	•		*				
LCS (P8C2018-BS1)				Prepared: 0	03/20/18 A	nalyzed: 03	/21/18			
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P8C2018-BSD1)				Prepared: (03/20/18 A	nalyzed: 03	/21/18			
Chloride	406	1.00	mg/kg wet	400		101	80-120	1.15	20	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C2018 - *** DEFAULT PREP ***										
Duplicate (P8C2018-DUP1)	Sou	ce: 8C20016	-03	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
Chloride	25.5	1.09	mg/kg dry		28.6			11.7	20	
Matrix Spike (P8C2018-MS1)	Sou	ce: 8C20016	-03	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
Chloride	1100	1.09	mg/kg dry	1090	28.6	98.6	80-120			
Batch P8C2102 - *** DEFAULT PREP ***										
Blank (P8C2102-BLK1)				Prepared &	t Analyzed:	03/21/18				
% Moisture	ND	0.1	%							
Duplicate (P8C2102-DUP1)	Sou	rce: 8C16011	-13	Prepared &	k Analyzed:	03/21/18				
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P8C2102-DUP2)	Sou	rce: 8C20002	-05	Prepared &	k Analyzed	: 03/21/18				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P8C2102-DUP3)	Sou	rce: 8C20008	-02	Prepared &	λ Analyzed:	03/21/18				
% Moisture	13.0	0.1	%		12.0			8.00	20	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8C2015 - General Preparation (GC)										
Blank (P8C2015-BLK1)				Prepared &	Analyzed:	03/20/18				
C6-C12	ND	25.0	mg/kg wet	-						
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	76.8		"	100		76.8	70-130			
Surrogate: o-Terphenyl	40.2		"	50.0		80.4	70-130			
LCS (P8C2015-BS1)				Prepared &	Analyzed:	03/20/18				
C6-C12	1030	25.0	mg/kg wet	1000	-	103	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.0	70-130			
LCS Dup (P8C2015-BSD1)				Prepared &	Analyzed:	03/20/18				
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125	5.04	20	
>C12-C28	986	25.0	"	1000		98.6	75-125	5.56	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130			
Matrix Spike (P8C2015-MS1)	Sou	rce: 8C20020)-01	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
C6-C12	1060	25.3	mg/kg dry	1010	13.0	103	75-125			
>C12-C28	1060	25.3	"	1010	24.0	102	75-125			
Surrogate: 1-Chlorooctane	122		"	101		120	70-130			
Surrogate: o-Terphenyl	45.3		"	50.5		89.8	70-130			
Matrix Spike Dup (P8C2015-MSD1)	Sou	rce: 8C20020)-01	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
C6-C12	1080	25.3	mg/kg dry	1010	13.0	105	75-125	1.98	20	
>C12-C28	1060	25.3	"	1010	24.0	103	75-125	0.420	20	
Surrogate: 1-Chlorooctane	126		"	101		124	70-130			
Surrogate: o-Terphenyl	53.6		"	50.5		106	70-130			

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd. Project Number: [none]
Odessa TEXAS, 79764 Project Manager: Matt Green

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Davier C			
Report Approved By:			Date:	4/13/2018	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
2M Environmental Services, LLC.
1219 W. University Blvd.
Odessa, TEXAS 79764

Project: COG Tequiza Federal 001H

Project Number: [none]
Location: Eddy County NM

Lab Order Number: 8C23003



NELAP/TCEQ # T104704516-17-8

Report Date: 03/26/18

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-3 @ 2'	8C23003-01	Soil	03/07/18 09:51	03-23-2018 13:45

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

T-3 @ 2' 8C23003-01 (Soil)

		Reporting							l
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	503	1.09 r	ng/kg dry	1	P8C2607	03/26/18	03/26/18	EPA 300.0
% Moisture	8.0	0.1	%	1	P8C2610	03/26/18	03/26/18	ASTM D2216

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8C2607 - *** DEFAULT PREP ***										
Blank (P8C2607-BLK1)				Prepared &	. Analyzed:	03/26/18				
Chloride	ND	1.00	mg/kg wet							
LCS (P8C2607-BS1)				Prepared &	Analyzed:	03/26/18				
Chloride	414	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P8C2607-BSD1)				Prepared &	Analyzed:	03/26/18				
Chloride	410	1.00	mg/kg wet	400		103	80-120	0.903	20	
Duplicate (P8C2607-DUP1)	Soui	rce: 8C23003	3-01	Prepared &	. Analyzed:	03/26/18				
Chloride	507	1.09	mg/kg dry		503			0.657	20	
Duplicate (P8C2607-DUP2)	Soui	rce: 8C20021	1-03	Prepared &	Analyzed:	03/26/18				
Chloride	ND	1.11	mg/kg dry		ND				20	
Matrix Spike (P8C2607-MS1)	Sour	rce: 8C23003	3-01	Prepared &	Analyzed:	03/26/18				
Chloride	1600	1.09	mg/kg dry	1090	503	101	80-120			
Batch P8C2610 - % Solids										
Blank (P8C2610-BLK1)				Prepared &	Analyzed:	03/26/18				
% Moisture	ND	0.1	%	*	<u> </u>					
Duplicate (P8C2610-DUP1)	Soui	rce: 8C22004	1-27	Prepared &	Analyzed:	03/26/18				
% Moisture	12.0	0.1	%		13.0			8.00	20	
Duplicate (P8C2610-DUP2)	Sour	ce: 8C23004	1-05	Prepared &	. Analyzed:	03/26/18				
% Moisture	7.0	0.1	%		11.0			44.4	20	

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Notes and Definitions

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Device V		
Report Approved By:			Date:	3/26/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

Company Name	Project Manager:	Pa (91
2M Env	Matt Gr	6

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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Matt Green
2M Environmental Services, LLC.
1219 W. University Blvd.
Odessa, TEXAS 79764

Project: COG Tequiza Federal 001H

Project Number: [none]
Location: Eddy County, NM

Lab Order Number: 8C20016



NELAP/TCEQ # T104704516-17-8

Report Date: 03/21/18

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South-1 @6"	8C20016-01	Soil	03/19/18 09:00	03-20-2018 15:10
North-1 @6"	8C20016-02	Soil	03/20/18 09:05	03-20-2018 15:10
Northwest-1 @6"	8C20016-03	Soil	03/20/18 09:10	03-20-2018 15:10
Southwest -2 @6"	8C20016-04	Soil	03/20/18 09:15	03-20-2018 15:10
Northeast -1 @6"	8C20016-05	Soil	03/20/18 09:20	03-20-2018 15:10
Southeast -2 @6"	8C20016-06	Soil	03/20/18 09:25	03-20-2018 15:10

2M Environmental Services, LLC.

Project: COG Tequiza Federal 001H

1219 W. University Blvd. Odessa TEXAS, 79764 Project Number: [none]
Project Manager: Matt Green

Fax:

South-1 @6" 8C20016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
						p.m.vu			- 10105
	Perm	ian Basin E	Environmen	tal Lab, l	∟.P.				
Organics by GC									
Benzene	ND	0.0204	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Toluene	ND	0.204	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.102	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.408	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.204	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-1.	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.3 %	75-1.	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	s							
Chloride	15.2	1.02	mg/kg dry	1	P8C2017	03/20/18	03/21/18	EPA 300.0	
% Moisture	2.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		77.1 %	70-1.	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: o-Terphenyl		82.2 %	70-1.	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/20/18	03/20/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

North-1 @6" 8C20016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		158 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	1.38	1.06	mg/kg dry	1	P8C2017	03/20/18	03/21/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80)15M							
C6-C12	ND	26.6	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: 1-Chlorooctane		82.9 %	70-1	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Surrogate: o-Terphenyl		89.8 %	70-1	30	P8C2015	03/20/18	03/20/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/20/18	03/20/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Northwest-1 @6" 8C20016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	tal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		163 %	75-1.	25	P8C2014	03/20/18	03/20/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		104 %	75-1.	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA / S	tandard Metho	ds							
Chloride	28.6	1.09	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 8	015M							
C6-C12	ND	27.2	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-1.	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		88.5 %	70-1.	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Southwest -2 @6" 8C20016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-1	25	P8C2014	03/20/18	03/20/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ds							
Chloride	30.7	1.11	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	•
% Moisture	10.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		74.9 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		78.0 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Northeast -1 @6" 8C20016-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.0222	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Toluene	ND	0.222	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.111	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.444	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.222	mg/kg dry	20	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-1	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		132 %	75-1	25	P8C2014	03/20/18	03/21/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	48.3	1.11	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 80)15M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		78.1 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		82.0 %	70-1	30	P8C2015	03/20/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/20/18	03/21/18	calc	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Southeast -2 @6" 8C20016-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perr	nian Basin E	Environmer	ıtal Lab, I	L .P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Γoluene	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Ethylbenzene	0.0150	0.00556	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.3 %	75-1	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		76.7 %	75-1	25	P8C2014	03/20/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds							
seneral enemistry randicters by Erri									
Chloride	234	1.11	mg/kg dry	1	P8C2018	03/20/18	03/21/18	EPA 300.0	
· · · · · · · · · · · · · · · · · · ·	234 10.0	1.11 0.1	mg/kg dry %	1	P8C2018 P8C2102	03/20/18 03/21/18	03/21/18 03/21/18	EPA 300.0 ASTM D2216	
Chloride	10.0	0.1		1					
Chloride % Moisture	10.0	0.1		1 1					
Chloride % Moisture Fotal Petroleum Hydrocarbons C6-C35	10.0	0.1 015M	%	1	P8C2102	03/21/18	03/21/18	ASTM D2216	
Chloride % Moisture <u>Fotal Petroleum Hydrocarbons C6-C35</u> C6-C12	10.0 by EPA Method 8 ND	0.1 015M 27.8	% mg/kg dry	1	P8C2102	03/21/18	03/21/18	ASTM D2216 TPH 8015M	
Chloride Moisture Fotal Petroleum Hydrocarbons C6-C35 C6-C12 C12-C28	10.0 by EPA Method 8 ND ND	0.1 015M 27.8 27.8	mg/kg dry mg/kg dry	1 1 1 1	P8C2102 P8C2015 P8C2015	03/21/18 03/20/18 03/20/18	03/21/18 03/21/18 03/21/18	ASTM D2216 TPH 8015M TPH 8015M	
Chloride Moisture Cotal Petroleum Hydrocarbons C6-C35 C6-C12 C12-C28 C28-C35	10.0 by EPA Method 8 ND ND	0.1 015M 27.8 27.8 27.8	mg/kg dry mg/kg dry mg/kg dry	1 1 1 1 30	P8C2102 P8C2015 P8C2015 P8C2015	03/21/18 03/20/18 03/20/18 03/20/18	03/21/18 03/21/18 03/21/18 03/21/18	ASTM D2216 TPH 8015M TPH 8015M TPH 8015M	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C2014 - General Preparatio	on (GC)									
Blank (P8C2014-BLK1)				Prepared &	Analyzed:	03/20/18				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0574		"	0.0600		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0780		"	0.0600		130	75-125			S-GC
LCS (P8C2014-BS1)				Prepared &	: Analyzed:	03/20/18				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.103	0.0100	"	0.100		103	70-130			
Ethylbenzene	0.111	0.00500	"	0.100		111	70-130			
Xylene (p/m)	0.220	0.0200	"				70-130			
Xylene (o)	0.118	0.0100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0592		"	0.0600		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0731		"	0.0600		122	75-125			
LCS Dup (P8C2014-BSD1)				Prepared &	: Analyzed:	03/20/18				
Benzene	0.0920	0.00100	mg/kg wet	0.100		92.0	70-130	10.5	20	
Toluene	0.101	0.0100	"	0.100		101	70-130	2.11	20	
Ethylbenzene	0.109	0.00500	"	0.100		109	70-130	2.36	20	
Xylene (p/m)	0.210	0.0200	"				70-130		20	
Xylene (o)	0.119	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0597		"	0.0600		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0660		"	0.0600		110	75-125			
Matrix Spike (P8C2014-MS1)	Sour	rce: 8C20020)-01	Prepared: 0	03/20/18 A	nalyzed: 03	3/21/18			
Benzene	0.0689	0.00101	mg/kg dry	0.101	ND	68.2	80-120			QM-05
Toluene	0.0566	0.0101	"	0.101	ND	56.1	80-120			QM-05
Ethylbenzene	0.0530	0.00505	"	0.101	ND	52.5	80-120			QM-05
Xylene (p/m)	0.0883	0.0202	"		0.00225		80-120			
Xylene (o)	0.0408	0.0101	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0606		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.0661		"	0.0606		109	75-125			

Permian Basin Environmental Lab, L.P.

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

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Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P8C2014 - General Preparation (C	\mathbf{GC})
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Matrix Spike Dup (P8C2014-MSD1)	Sour	rce: 8C20020	0-01	Prepared: (03/20/18 Aı	nalyzed: 03	3/21/18			
Benzene	0.0782	0.00101	mg/kg dry	0.101	ND	77.4	80-120	12.7	20	QM-05
Toluene	0.0724	0.0101	"	0.101	ND	71.7	80-120	24.4	20	QM-05
Ethylbenzene	0.0787	0.00505	"	0.101	ND	77.9	80-120	39.0	20	QM-05
Xylene (p/m)	0.133	0.0202	"		0.00225		80-120		20	
Xylene (o)	0.0687	0.0101	"		ND		80-120		20	
Surrogate: 1,4-Difluorobenzene	0.0678		"	0.0606		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0703		"	0.0606		116	75-125			

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C2017 - *** DEFAULT PREP ***										
Blank (P8C2017-BLK1)				Prepared &	k Analyzed:	03/20/18				
Chloride	ND	1.00	mg/kg wet							
LCS (P8C2017-BS1)				Prepared &	ኔ Analyzed:	03/20/18				
Chloride	415	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P8C2017-BSD1)				Prepared &	t Analyzed:	03/20/18				
Chloride	414	1.00	mg/kg wet	400		103	80-120	0.290	20	
Duplicate (P8C2017-DUP1)	Sour	ce: 8C16011	-15	Prepared &	t Analyzed:	03/20/18				
Chloride	622	1.09	mg/kg dry		614			1.18	20	
Duplicate (P8C2017-DUP2)	Sour	ce: 8C20014	-01	Prepared: (03/20/18 Aı					
Chloride	228	1.04	mg/kg dry		230			0.769	20	
Matrix Spike (P8C2017-MS1)	Sour	ce: 8C16011	-15	Prepared &	ኔ Analyzed:	03/20/18				
Chloride	1750	1.09	mg/kg dry	1090	614	105	80-120			
Batch P8C2018 - *** DEFAULT PREP ***										
DII- (D0C2010 DI I/1)				Prepared: (02/20/19 A	nalyzed: 03	/21/18			
Blank (P8C2018-BLK1)				i icparcu. v	<i>J3/20/10 A</i> 1	iaiyzcu. 03				
Chloride	ND	1.00	mg/kg wet	Trepared.	03/20/16 AI	laryzeu. 03				
	ND	1.00	mg/kg wet	•	03/20/18 At					
Chloride	ND 411	1.00	mg/kg wet	•						
Chloride LCS (P8C2018-BS1)				Prepared: 0		nalyzed: 03	/21/18 80-120			

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

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General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C2018 - *** DEFAULT PREP ***										
Duplicate (P8C2018-DUP1)	Sour	ce: 8C20016-	03	Prepared: (03/20/18 A	nalyzed: 03	3/21/18			
Chloride	25.5	1.09	mg/kg dry		28.6			11.7	20	
Matrix Spike (P8C2018-MS1)	Soui	ce: 8C20016-	03	Prepared: (03/20/18 A	nalyzed: 03	3/21/18			
Chloride	1100	1.09	mg/kg dry	1090	28.6	98.6	80-120			
Batch P8C2102 - *** DEFAULT PREP ***										
Blank (P8C2102-BLK1)				Prepared &	Analyzed	03/21/18				
% Moisture	ND	0.1	%							
Duplicate (P8C2102-DUP1)	Soui	ce: 8C16011-	13	Prepared &	Analyzed	03/21/18				
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P8C2102-DUP2)	Soui	ce: 8C20002-	05	Prepared &	Analyzed	03/21/18				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P8C2102-DUP3)	Soui	ce: 8C20008-	02	Prepared &	Analyzed	03/21/18				
% Moisture	13.0	0.1	%		12.0			8.00	20	

2M Environmental Services, LLC. Project: COG Tequiza Federal 001H

1219 W. University Blvd.Project Number: [none]Odessa TEXAS, 79764Project Manager: Matt Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8C2015 - General Preparation (GC)										
Blank (P8C2015-BLK1)				Prepared &	Analyzed:	03/20/18				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	76.8		"	100		76.8	70-130			
Surrogate: o-Terphenyl	40.2		"	50.0		80.4	70-130			
LCS (P8C2015-BS1)				Prepared &	Analyzed:	03/20/18				
C6-C12	1030	25.0	mg/kg wet	1000		103	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.0	70-130			
LCS Dup (P8C2015-BSD1)				Prepared &	Analyzed:	03/20/18				
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125	5.04	20	
>C12-C28	986	25.0	"	1000		98.6	75-125	5.56	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130			
Matrix Spike (P8C2015-MS1)	Sou	rce: 8C20020	0-01	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
C6-C12	1060	25.3	mg/kg dry	1010	13.0	103	75-125			
>C12-C28	1060	25.3	"	1010	24.0	102	75-125			
Surrogate: 1-Chlorooctane	122		"	101		120	70-130			
Surrogate: o-Terphenyl	45.3		"	50.5		89.8	70-130			
Matrix Spike Dup (P8C2015-MSD1)	Sou	rce: 8C20020	0-01	Prepared: (03/20/18 A	nalyzed: 03	/21/18			
C6-C12	1080	25.3	mg/kg dry	1010	13.0	105	75-125	1.98	20	
>C12-C28	1060	25.3	"	1010	24.0	103	75-125	0.420	20	
Surrogate: 1-Chlorooctane	126		"	101		124	70-130			
Surrogate: o-Terphenyl	53.6		"	50.5		106	70-130			

Permian Basin Environmental Lab, L.P.

1219 W. University Blvd. Project Number: [none]
Odessa TEXAS, 79764 Project Manager: Matt Green

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	By Burron			
Report Approved By:		Date:	3/21/2018	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

Received by OC	C D : 1	1/21/	/2022 i	8:21	:172	4 <i>M</i>				AT bisbrist2			1		-1	- T		-T		(250)	WELLS TO AND IN	ge 90	of 91
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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

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 160303

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	160303
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation and closure must be in compliance with 19.15.29.12 and 19.15.29.13 NMAC.	11/29/2022
bhall	In the "Sampling Plan" portion of the report, it states "To collect representative samples, composite samples (5-point composite) will be collected every 600 square feet (25 x 25) for the final confirmation sampling for the constituents of concern." The OCD approves 5-point composite samples representative of NO MORE THAN 400 SQUARE FEET. All other sampling is approved per the workplan.	11/29/2022
bhall	All confirmation samples must be analyzed for all constituents listed in Table I.	11/29/2022
bhall	2RP-4632 closed. Please refer to incident #NAB1805142690 in all future communication.	11/29/2022
bhall	Please submit a complete closure report through the OCD Permitting website by 3/3/2023.	11/29/2022