Received by OCD: 11/23/2022 11:04:08 AM



[Sheldon L. Hitchcock] [HSE Coordinator]

March 15, 2019

Bradford Billings Oil Conservation Division 1220 S. St Francis Dr. #3 Santa Fe, NM 87505

Crystal Weaver Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220

Re: Closure Letter Jack Federal #004H API #: 30-015-42134 RP#: 2RP-4653 Unit Letter B, Section 31, Township 25S, Range 27E Eddy County, NM

Mr. Billings/Ms. Weaver,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure report for the Jack Federal #004H. This release occurred on March 6, 2018. Following the release an assessment of impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and the Bureau of Land Management (BLM). A copy of the approved work plan is attached in Appendix IV.

BACKGROUND

The Jack Federal #004H release is located in Unit Letter B, Section 31, Township 25 South, and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.0930405 North and -104.2281723 West.

On March 6, 2018, a failed check valve resulted in the release of approximately seven (7) barrels (bbls) of produced water. A vacuum truck was utilized to recover free standing fluids.

Remediation activities were conducted in accordance with the approved work plan. Confirmation soil samples were not required by NMOCD or BLM. A site diagram of the excavated area is presented in Appendix I.

March 15, 2019

REMEDIAL ACTIONS

- The impacted area in the vicinity of sample locations T-1 was excavated to a depth of two (2) feet BGS.
- The impacted area in the vicinity of sample location T-2 was excavated to the depth of three (3) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfill with clean "like" material and contoured to match the surrounding terrain.

March 15, 2019

CLOSURE REQUEST

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the Jack Federal #004H incident that occurred on March 6, 2018.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Sheldon Jutan

Sheldon L. Hitchcock HSE Coordinator slhitchcock@concho.com

Enclosed:

Appendix I: Site Diagram Appendix II: Initial C-141 (Copy) Appendix III: Final C-141 Appendix IV: Appendix V: Approved Work Plan (Copy)

APPENDIX I



Released to Imaging: 11/23/2022 11:06:55 AM

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APPENDIX II

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			ARTESIA DISTR.	
istrict I 525 N. French Dr., Hobbs, NM 88240 istrict II U.S. First St. Astacia, NM 88210	State of Energy Minerals	New Mexico and Natural Resources	MAR 07 20	18 Form C-141 Revised April 3, 2017
strict III 900 Rio Brazos Road, Aztec, NM 87410 <u>strict IV</u> 20 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conser 1220 South Santa Fe	vation Division St. Francis Dr. 2, NM 87505	<u>Repressive</u>	y to appropriate District Office in écordance with 19.15.29 NMAC.
R	elease Notification	and Corrective	Action	
NAB1806739186		OPERATOR	🔀 Init	ial Report 🛛 Final Repor
Name of Company: COG Operating LL	C OGRID 229137	Contact: Robert N	IcNeil	
Address: 600 West Illinois Avenue, N	Iidland TX 79701	Telephone No. 432-683	7443	
acinty Name. Jack Feueral #00411	1	racinty Type. Thownie		
Surface Owner: BLM	Mineral Owner:	Federal	API N	0. 30-015-42134
	LOCATIO	N OF RELEASE		<u>, </u>
Unit Letter Section Township Ran B 31 258 271	ge Feet from the North	South Line Feet from the	East/West Line	County
				Ludy
Lan	tude_32.0930405 Lo	ngitude104.2281723	NAD83	
	NATURE	OF RELEASE	I	
Type of Release: Produced Water		Volume of Release: 7 bbl.	Volume	Recovered: 0 bbl.
Source of Release:		Date and Hour of Occurre	nce: Date and	Hour of Discovery:
Flowline Was Immediate Notice Given?	<u></u>	March 6, 2018 9:00 a		March 6, 2018 9:00 am
Yes	🖾 No 🖾 Not Required			
By Whom?		Date and Hour:		······································
By Whom? Was a Watercourse Reached?	⊠ No Ily.*	Date and Hour: If YES, Volume Impacting	g the Watercourse.	
By Whom? Was a Watercourse Reached? If a Watercourse was Impacted, Describe Fu Describe Cause of Problem and Remedial A The release was due to a corroded check val Describe Area Affected and Cleanup Action The release was remained on location. A vac delineate any possible impact from the release	No Ily.* ction Taken.* ve on a flowline. The check v Taken.* cuum truck was dispatched to se and we will present a reme	Date and Hour: If YES, Volume Impacting aive was replaced. remove all freestanding fluid diation work plan to the NM	g the Watercourse.	e the spill area sampled to prior to any significant
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By Whom? Was a Watercourse Reached? If a Watercourse was Impacted, Describe Fu Describe Cause of Problem and Remedial A The release was due to a corroded check val Describe Area Affected and Cleanup Action The release was remained on location. A vac delineate any possible impact from the releas remediation activities. I hereby certify that the information given al regulations all operators are required to repor- public health or the environment. The accep should their operations have failed to adequa or the environment. In addition, NMOCD a federal, state, or local laws and/or regulation Signature: Machine Machine American Signature: Signatur	No Ily.* ction Taken.* ve on a flowline. The check v Taken.* courn truck was dispatched to se and we will present a reme bove is true and complete to t rt and/or file certain release n trance of a C-141 report by th ately investigate and remediat cceptance of a C-141 report of the complete of a C-141 report of the co	Date and Hour: If YES, Volume Impacting aive was replaced. remove all freestanding fluid diation work plan to the NM he best of my knowledge and otifications and perform cond c NMOCD marked as "Final c contamination that pose a la loss not relieve the operator of OIL CO	the Watercourse.	e the spill area sampled to prior to any significant rsuant to NMOCD rules and cleases which may endanger elieve the operator of liability er, surface water, human health compliance with any other
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APPENDIX III

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

•. 1

	Longitude
	(NAD 83 in decimal degrees to 5 decimal places)
Site Name	Site Type

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

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

	1 480 10 01	
Incident ID		
District RP		
Facility ID		
Application ID		

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If VES was immediate n	but the action of the action o
IT TES, was infinediate in	the given to the OCD. By whom: To whom: when and by what means (phone, chain, etc).

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:	Title:
Signature: Sheldon guitan	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Page 6

Oil Conservation Division

Incident ID	
District RP	
E '1' ID	
Facility 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.

<u>Closure Report Attachment Checklist</u>: Each of the following it	items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
I hereby certify that the information given above is true and complet and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for 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.	
Printed Name:	Title:	
Signature: Sheldon gittom	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	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.	
Closure Approved by: Ashley Maxwell	Date:	
Printed Name:		

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APPENDIX IV



June 22, 2018

Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Shelly Tucker U.S Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220 Stucker@blm.gov

Re: Soil Investigation Summary and Proposed Remediation Workplan Jack Federal #004H (2RP-4653)
GPS: N 32.0930405° W 104.2281723°
Unit Letter "B", Section 31, Township 25 South, Range 27 East, NMPM Eddy County, New Mexico

Dear Mr. Bratcher and Ms. Tucker,

2M Environmental Services, LLC. (2M), on behalf of COG Operating, LLC. (Concho), has prepared this Soil Investigation Summary and Proposed Remediation Workplan (Workplan) for the Jack Federal #004H Release Site (Release Site). The purpose of this Workplan is to propose remediation activities designed to advance the Jack Federal #004H Release Site toward a New Mexico Oil and Conservation District (NMOCD) approved Site Closure Status. The legal description of the Release Site is Unit Letter "B", Section 31, Township 25 South, Range 27 East, in Eddy County, New Mexico. The subject property is administered by the New Mexico U.S. Department of the Interior Bureau of Land Management (BLM). The GPS coordinates for the site are N 32.0930405° W 104.2281723°. A Site Location Map and Site Details and Soil Sample Location Map are provided as Figure 1 and Figure 2, respectively.

On March 6, 2018, a produced water release occurred at the Jack Federal #004H. The release was the result of corrosion on the flowline check valve, which resulted in the release of produced water outside of the earthen secondary containment east of the tank battery. On March 6, 2018, Concho reported the release to the NMOCD District 2 Office, located in Artesia, New Mexico, and BLM. The release was assigned an incident number 2RP-4653. A Release Notification and Corrective Action Form (Form C-141) was subsequently submitted to the NMOCD on March 7, 2018. The release was reported as approximately seven (7) barrels of produced water released with zero (0) barrels of produced water recovered, resulting in a net loss of approximately seven (7) barrels of produced water. A copy of the NMOCD Release Notification and Corrective Action Form C-141 is attached to this Workplan.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify the average depth to groundwater information in Section 31, Township 25 South, Range 27 East. A reference map utilized by the New Mexico Oil Conservation Division (NMOCD) Artisa District Office indicates groundwater should be encountered at approximately twenty-five (25) feet below ground surface (bgs). Based on the NMOCD site classification system, twenty (20) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one-thousand feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, twenty (20) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, twenty (20) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, twenty (20) points will be assigned to the subject area ranking as a result of this criterion.

Based on the NMOCD Site Classification criteria, the Release Site remediation levels are 10 mg/Kg for benzene, 50 mg/Kg for benzene, toluene, ethylbenzene and xylenes (BTEX) and 100 mg/Kg for total petroleum hydrocarbons (TPH). Chloride remediation levels for the Release Site will be 600 mg/Kg, per NMOCD request.

On March 13, 2018, 2M, on behalf of Concho, utilized a hand auger and/or a backhoe to collect six (6) delineation soil samples (T-1 @ 6", T-1 @ 2', T-1 @ 3', T-2 @ 6", T-2 @ 2' and T-2 @ 3') from the impacted area east of the secondary containment. In addition to the soil samples described above, eight (8) soil samples (NT-1 @ 6", NT-1 @ 1', ET-1 @ 6", ET-1 @ 1', ST-1 @ 6", ST-1 @ 1', WT-1 @ 6", and WT-1 @ 1') were collected utilizing a hand auger and/or backhoe approximately five (5) feet from the outer perimeter of the impacted area. The soil samples were submitted to Permian Basin Environmental Lab in Midland, Texas for determination of concentrations of BTEX using Method SW 846-8021B, TPH using Method SW 846-8015M, and chloride using Method E-300.1.

Based on the analytical results of the soil samples collected on March 13, 2018, Concho proposes the following field activities designed to remediate the Jack Federal #004H:

- Utilizing a backhoe, excavate the area represented by sample point T-1 to approximately two (2) feet bgs and the area represented by sample point T-2 to approximately three (3) feet bgs.
- Excavated soil will be stockpiled on a plastic liner adjacent to the excavation pending disposal.
- Concho will backfill the excavation with locally purchased non-impacted "like" soil or caliche. In addition, impacted soil will be transported under manifest to a NMOCD approved disposal facility.
- Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and BLM.

Concho is prepared to begin the activities outlined in this Proposed Remediation Workplan on NMOCD and BLM approval.

If you have any questions, or if additional information is required, please feel free to call me at 432-614-6793 (office) or 432-230-3763 (cell).

Thank you,

Matthew Steer

Matthew Green, P.G. President 2M Environmental Services, LLC.

Attachments:

Figure 1 - Site Location Map Figure 2 - Site Details and Soil Sample Location Map Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil Laboratory Analytical Results Release Notification and Corrective Action (Form C-141)

cc: File





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TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CONCHO OPERATING, LLC

Jack Federal #004H RELEASE SITE EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

				METHODS:	SW 846-80211	В			M	ETHOD: SW 801	5M		E 300.1
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	0 - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
T-1 @ 6"	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	92.2	30.6	122.8	9,990
T-1 @ 2'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	537
T-1 @ 3'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	524
T-2 @ 6"	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17,500
T-2 @ 2'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,850
T-2 @ 3'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	64.1
NT-1 @ 6"	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	259
NT-1 @ 1'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ET-1 @ 6"	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	213
ET-1 @ 1'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.2
ST-1 @ 6"	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	216
ST-1 @ 1'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	286
WT-1 @ 6"	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	206
WT-1 @ 1'	3/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	520

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 Jack Federal #004H Project Number: [none] Location: Eddy County, NM

Lab Order Number: 8C20017



NELAP/TCEQ # T104704516-17-8

Report Date: 03/27/18

2M Environmental Services, LLC.	Project:	COG Jack Federal #004H	Fax:
1219 W. University Blvd.	Project Number:	[none]	
Odessa TEXAS, 79764	Project Manager:	Matt Green	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 @ 6"	8C20017-01	Soil	03/13/18 13:50	03-20-2018 15:37
T-1 @ 2'	8C20017-02	Soil	03/13/18 14:00	03-20-2018 15:37
T-1 @ 3'	8C20017-03	Soil	03/13/18 14:05	03-20-2018 15:37
T-2 @ 6"	8C20017-04	Soil	03/13/18 14:32	03-20-2018 15:37
T-2 @ 2'	8C20017-05	Soil	03/13/18 14:48	03-20-2018 15:37
T-3 @ 3'	8C20017-06	Soil	03/13/18 14:53	03-20-2018 15:37
NT-1 @ 6"	8C20017-07	Soil	03/13/18 15:30	03-20-2018 15:37
NT-1 @ 1'	8C20017-08	Soil	03/13/18 15:35	03-20-2018 15:37
ET-1 @ 6"	8C20017-09	Soil	03/13/18 15:36	03-20-2018 15:37
ET-1 @ 1'	8C20017-10	Soil	03/13/18 15:38	03-20-2018 15:37
ST-1 @ 6"	8C20017-11	Soil	03/13/18 15:40	03-20-2018 15:37
ST-1 @ 1'	8C20017-12	Soil	03/13/18 15:45	03-20-2018 15:37
WT-1 @ 6"	8C20017-13	Soil	03/13/18 16:00	03-20-2018 15:37
WT-1 @ 1'	8C20017-14	Soil	03/13/18 16:10	03-20-2018 15:37

2M Environmental Services, LLC.	Project:	COG Jack Federal #004H	Fax:
1219 W. University Blvd.	Project Number:	[none]	
Odessa TEXAS, 79764	Project Manager:	Matt Green	

T-1 @ 6'' 8C20017-01 (Soil)

			(,					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ital Lab, 1	L .P.				
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		101 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Metho	ds							
Chloride	9990	26.3	mg/kg dry	25	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M							
C6-C12	ND	26.3	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
>C12-C28	92.2	26.3	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
>C28-C35	30.6	26.3	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-1	30	P8C2107	03/21/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1	30	P8C2107	03/21/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	123	26.3	mg/kg dry	1	[CALC]	03/21/18	03/21/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC.Project:COG Jack Federal #004H1219 W. University Blvd.Project Number:[none]Odessa TEXAS, 79764Project Manager:Matt Green								Fax:	
		Т 8С20	[-1 @ 2' 017-02 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmei	ıtal Lab, l	P.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.0 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ods							
Chloride	537	1.14	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	8015M							
C6-C12	ND	28.4	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-1	30	P8C2107	03/21/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	P8C2107	03/21/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	03/21/18	03/21/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764		Proj Project Num Project Mana		Fax:					
		Т 8С20	[-1 @ 3' 017-03 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmer	ıtal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.6 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Metho	ods							
Chloride	524	1.10	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	8015M							
C6-C12	ND	27.5	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8C2107	03/21/18	03/21/18	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %	70-1	30	P8C2107	03/21/18	03/21/18	TPH 8015M	
Surrogate: o-Terphenyl		96.3 %	70-1	30	P8C2107	03/21/18	03/21/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	03/21/18	03/21/18	calc	

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764		Proj Project Num Project Mana		Fax:					
		T 8C20	-2 @ 6'' 017-04 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	·mian Basin F	Invironme	ntal Lab, l					
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.6 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.0 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Meth	ods							
Chloride	17500	56.8	mg/kg dry	50	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method	8015M							
C6-C12	ND	28.4	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		92.2 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		95.6 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764		Proj Project Num Project Mana		Fax:					
		ך 8C20	Г-2 @ 2' 017-05 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	rmian Basin F	Invironme	ntal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.1 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Meth	ods							
Chloride	7850	28.7	mg/kg dry	25	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method	8015M							
C6-C12	ND	28.7	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		88.8 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		92.0 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764		Proj Project Num Project Mana		Fax:					
		Т 8С20	[-3 @ 3' 017-06 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmei	ntal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00118	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0118	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00588	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0235	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0118	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.7 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		71.4 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Metho	ods							
Chloride	64.1	1.18	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	15.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method	8015M							
C6-C12	ND	29.4	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		91.6 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		95.4 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764	ental Services, LLC.Project:COG Jack Federal #004Hversity Blvd.Project Number:[none].S, 79764Project Manager:Matt Green								
		N' 8C20	- Т-1 @ 6'' 017-07 (Soi	il)					
Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmer	ıtal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		72.5 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		103 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ods							
Chloride	259	1.06	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	8015M							
C6-C12	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		88.3 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		91.3 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764	ental Services, LLC.Project:COG Jack Federal #004Hersity Blvd.Project Number:[none]S, 79764Project Manager:Matt Green								
		N 8C20	T-1 @ 1' 017-08 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	nvironmer	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.3 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		68.4 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	/ Standard Meth	ods							
Chloride	ND	1.11	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method	8015M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		80.3 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764		Proj Project Num Project Mana		Fax:					
		E' 8C20	Г-1 @ 6'' 017-09 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environme	ntal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.9 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.8 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	213	1.06	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		94.7 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

2M Environmental Services, LLC. 1219 W. University Blvd. Odessa TEXAS, 79764		Proj Project Num Project Mana	ect: COG Ja ber: [none] ger: Matt G		Fax:				
		E 8C20	T-1 @ 1' 017-10 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmei	ntal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		65.1 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		90.0 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	15.2	1.04	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	4.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	8015M							
C6-C12	ND	26.0	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		82.3 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

Permian Basin Environmental Lab, L.P.

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		S7 8C20	Г-1 @ 6'' 017-11 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environmer	ital Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		79.3 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds							
Chloride	216	1.06	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		75.5 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		77.1 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

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		S' 8C20	T-1 @ 1' 017-12 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmer	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		136 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		102 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ods							
Chloride	286	5.38	mg/kg dry	5	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8C2201	03/22/18	03/22/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	oy EPA Method 8	8015M							
C6-C12	ND	26.9	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		81.6 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		84.6 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

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		W 8C20	T-1 @ 6'' 017-13 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Invironmer	ital Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-1	25	P8C2103	03/21/18	03/21/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ods							
Chloride	206	1.05	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8C2307	03/23/18	03/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method	8015M							
C6-C12	ND	26.3	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-1	30	P8C2107	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

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		W 8C20	'T-1 @ 1' 017-14 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ntal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.0222	mg/kg dry	20	P8C2103	03/21/18	03/23/18	EPA 8021B	
Toluene	ND	0.222	mg/kg dry	20	P8C2103	03/21/18	03/23/18	EPA 8021B	
Ethylbenzene	ND	0.111	mg/kg dry	20	P8C2103	03/21/18	03/23/18	EPA 8021B	
Xylene (p/m)	ND	0.444	mg/kg dry	20	P8C2103	03/21/18	03/23/18	EPA 8021B	
Xylene (o)	ND	0.222	mg/kg dry	20	P8C2103	03/21/18	03/23/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-1	25	P8C2103	03/21/18	03/23/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		136 %	75-1	25	P8C2103	03/21/18	03/23/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	520	1.11	mg/kg dry	1	P8C2203	03/22/18	03/23/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8C2307	03/23/18	03/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8C2108	03/21/18	03/22/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8C2108	03/21/18	03/22/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8C2108	03/21/18	03/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		84.5 %	70-1	30	P8C2108	03/21/18	03/22/18	TPH 8015M	
Surrogate: o-Terphenyl		88.8 %	70-1	30	P8C2108	03/21/18	03/22/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/21/18	03/22/18	calc	

2M Environmental Services, LLC.	Project:	COG Jack Federal #004H	Fax:
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.

Analyta	Popult	Reporting	Unite	Spike	Source	%PEC	%REC	רות ק	RPD Limit	Notos
Analyte	Kesuit	Liiiit	Ollits	Level	Kesun	76KEC	Linits	KFD.	Liiiit	INOLES
Batch P8C2103 - General Preparation (GC)										
Blank (P8C2103-BLK1)				Prepared &	Analyzed:	03/21/18				
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	0.0572		"	0.0600		95.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0746		"	0.0600		124	75-125			
LCS (P8C2103-BS1)				Prepared &	Analyzed:	03/21/18				
Benzene	0.0821	0.00100	mg/kg wet	0.100		82.1	70-130			
Toluene	0.0918	0.0100	"	0.100		91.8	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.202	0.0200	"				70-130			
Xylene (o)	ND	0.0100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0472		"	0.0600		78.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0559		"	0.0600		93.2	75-125			
LCS Dup (P8C2103-BSD1)				Prepared &	Analyzed:	03/21/18				
Benzene	0.0866	0.00100	mg/kg wet	0.100		86.6	70-130	5.23	20	
Toluene	0.0913	0.0100	"	0.100		91.3	70-130	0.503	20	
Ethylbenzene	0.116	0.00500	"	0.100		116	70-130	3.72	20	
Xylene (p/m)	0.203	0.0200	"				70-130		20	
Xylene (o)	ND	0.0100					70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0499		"	0.0600		83.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0552		"	0.0600		92.0	75-125			
Matrix Spike (P8C2103-MS1)	S	ource: 8C20017	-01	Prepared: (03/21/18 Ai	nalyzed: 03	/22/18			
Benzene	0.0345	0.00105	mg/kg dry	0.105	ND	32.8	80-120			QM-05
Toluene	0.0410	0.0105	"	0.105	ND	39.0	80-120			QM-05
Ethylbenzene	0.0523	0.00526	"	0.105	0.00409	45.8	80-120			QM-05
Xylene (p/m)	0.112	0.0211	"		0.00513		80-120			
Xylene (o)	ND	0.0105	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0396		"	0.0632		62.7	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0647		"	0.0632		102	75-125			

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC.	Project:	COG Jack Federal #004H	Fax:
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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 P8C2103 - General Preparation (GC)

Matrix Spike Dup (P8C2103-MSD1)	Sou	rce: 8C20017	7-01	Prepared: 03/21/18 Analyzed: 03/22/18						
Benzene	0.0637	0.00105	mg/kg dry	0.105	ND	60.5	80-120	59.3	20	QM-05
Toluene	0.0945	0.0105	"	0.105	ND	89.8	80-120	78.9	20	QM-05
Ethylbenzene	0.108	0.00526	"	0.105	0.00409	98.5	80-120	73.1	20	QM-05
Xylene (p/m)	0.182	0.0211	"		0.00513		80-120		20	
Xylene (o)	ND	0.0105	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.118		"	0.0632		187	75-125			
Surrogate: 1,4-Difluorobenzene	0.0919		"	0.0632		145	75-125			

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC.	Project:	COG Jack Federal #004H	Fax:
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Odessa TEXAS, 79764	Project Manager:	Matt Green	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	-					-				
Batch P8C2201 - % Solids										
Blank (P8C2201-BLK1)				Prepared &	& Analyzed	: 03/22/18				
% Moisture	ND	0.1	%							
Duplicate (P8C2201-DUP1)	Sour	ce: 8C20017	-12	Prepared &	& Analyzed	: 03/22/18				
% Moisture	8.0	0.1	%		7.0			13.3	20	
Batch P8C2203 - *** DEFAULT PREP ***										
Blank (P8C2203-BLK1)				Prepared:	03/22/18 A	nalyzed: 03	3/23/18			
Chloride	ND	1.00	mg/kg wet							
LCS (P8C2203-BS1)				Prepared:	03/22/18 A	nalyzed: 03	3/23/18			
Chloride	386	1.00	mg/kg wet	400		96.5	80-120			
LCS Dup (P8C2203-BSD1)				Prepared:	03/22/18 A	nalyzed: 03	3/23/18			
Chloride	421	1.00	mg/kg wet	400		105	80-120	8.73	20	
Duplicate (P8C2203-DUP1)	Sour	ce: 8C20010	-01	Prepared:	03/22/18 A	nalyzed: 03	3/23/18			
Chloride	13000	56.8	mg/kg dry		11000			16.2	20	
Duplicate (P8C2203-DUP2)	Sour	ce: 8C20017	-08	Prepared:	03/22/18 A	nalyzed: 03	3/23/18			
Chloride	0.922	1.11	mg/kg dry	1	0.600	5		42.3	20	
Matrix Spike (P8C2203-MS1)	Source: 8C20010-01 Prepa 13000 56.8 mg/kg dry Source: 8C20017-08 Prepa 0.922 1.11 mg/kg dry Source: 8C20010-01 Prepa				03/22/18 A	nalyzed: 03	3/23/18			
Chloride	18800	56.8	mg/kg dry	5680	11000	137	80-120			
Batch P8C2307 - *** DEFAULT PREP ***										
Blank (P8C2307-BLK1)				Prepared &	& Analyzed	: 03/23/18				
% Moisture	ND	0.1	%							

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Odessa TEXAS, 79764	Project Manager: Matt Green	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permi	an Basin	Environme	ntal Lab	, L.P.
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8C2307 - *** DEFAULT PREP ***										
Duplicate (P8C2307-DUP1)	Sourc	e: 8C20021-	Prepared &	Analyzed:	03/23/18					
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P8C2307-DUP2)	Sourc	rce: 8C22004-01		Prepared & Analyzed:		03/23/18				
% Moisture	11.0	0.1	%		11.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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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 P8C2107 - General Preparation (GC)										
Blank (P8C2107-BLK1)				Prepared &	Analyzed:	03/21/18				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	52.0		"	50.0		104	70-130			
LCS (P8C2107-BS1)				Prepared &	Analyzed:	03/21/18				
C6-C12	976	25.0	mg/kg wet	1000		97.6	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	52.7		"	50.0		105	70-130			
LCS Dup (P8C2107-BSD1)				Prepared &	Analyzed:	03/21/18				
C6-C12	1080	25.0	mg/kg wet	1000		108	75-125	9.93	20	
>C12-C28	1110	25.0	"	1000		111	75-125	9.87	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		98.0	70-130			
Matrix Spike (P8C2107-MS1)	Sou	irce: 8C20017	7-13	Prepared: ()3/21/18 A	nalyzed: 03	8/22/18			
C6-C12	1040	26.3	mg/kg dry	1050	10.0	98.1	75-125			
>C12-C28	1070	26.3	"	1050	ND	102	75-125			
Surrogate: 1-Chlorooctane	115		"	105		109	70-130			
Surrogate: o-Terphenyl	49.7		"	52.6		94.5	70-130			
Matrix Spike Dup (P8C2107-MSD1)	Sou	irce: 8C20017	7-13	Prepared: ()3/21/18 A	nalyzed: 03	8/22/18			
C6-C12	1010	26.3	mg/kg dry	1050	10.0	95.4	75-125	2.78	20	
>C12-C28	1140	26.3	"	1050	ND	108	75-125	5.67	20	
Surrogate: 1-Chlorooctane	117		"	105		111	70-130			
Surrogate: o-Terphenyl	61.4		"	52.6		117	70-130			

Permian Basin Environmental Lab, L.P.

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	Odessa TEXAS, 79764	Project 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 P8C2108 - General Preparation (GC)										
Blank (P8C2108-BLK1)				Prepared: ()3/21/18 Ai	nalyzed: 03	/22/18			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.5		"	50.0		127	70-130			
LCS (P8C2108-BS1)				Prepared: ()3/21/18 Ai	nalyzed: 03	/22/18			
C6-C12	1200	25.0	mg/kg wet	1000		120	75-125			
>C12-C28	1200	25.0	"	1000		120	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130			
LCS Dup (P8C2108-BSD1)				Prepared: ()3/21/18 Ai	nalyzed: 03	/22/18			
C6-C12	1170	25.0	mg/kg wet	1000		117	75-125	2.45	20	
>C12-C28	1180	25.0	"	1000		118	75-125	1.79	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	58.2		"	50.0		116	70-130			
Matrix Spike (P8C2108-MS1)	Sou	irce: 8C20021	-01	Prepared: ()3/21/18 Ai	nalyzed: 03	/22/18			
C6-C12	852	27.2	mg/kg dry	1090	12.2	77.3	75-125			
>C12-C28	851	27.2	"	1090	ND	78.3	75-125			
Surrogate: 1-Chlorooctane	107		"	109		98.8	70-130			
Surrogate: o-Terphenyl	43.8		"	54.3		80.6	70-130			
Matrix Spike Dup (P8C2108-MSD1)	Sou	irce: 8C20021	-01	Prepared: ()3/21/18 Ai	nalyzed: 03	/22/18			
C6-C12	843	27.2	mg/kg dry	1090	12.2	76.5	75-125	1.07	20	
>C12-C28	845	27.2	"	1090	ND	77.8	75-125	0.701	20	
Surrogate: 1-Chlorooctane	107		"	109		98.8	70-130			
Surrogate: o-Terphenyl	47.1		"	54.3		86.7	70-130			

Permian Basin Environmental Lab, L.P.

2M Environmental Services, LLC.	Project:	COG Jack Federal #004H	Fax:
1219 W. University Blvd.	Project Number:	[none]	
Odessa TEXAS, 79764	Project Manager:	Matt Green	

Notes and Definitions

5-OC Surfogate recovery outside of control mints. The data was accepted based on valid recovery of the remaining surfog	S-GC	Surrogate recovery outside of control limits.	The data was accepted based on valie	d recovery of the remaining surroga
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- 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.
- 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

Report Approved By:

Sun Barron

3/27/2018

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.

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.

Date:

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Form C-141 Revised April 3, 2017

Oil Conservation Division - -. 4

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

<u>District IV</u> 1220 S. St. Franc	is Dr., Santa	Fe, NM 87505	5	1220 Sa	Sout inta F	h St. Franc e, NM 875	15 Dr. 05							
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Unit Letter B	Section 31	Township 25S	Range 27E	Feet from the 190	Nortl	h/South Line North	Feet from the 2,310	East/	West Line County East Eddy					
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I hereby certi regulations al public health should their c or the enviror federal, state,	fy that the i operators or the envi operations h ment. In a or local law	information g are required to ronment. The ave failed to addition, NMC ws and/or reg	iven above to report an acceptance adequately OCD accep ulations.	is true and comp d/or file certain r te of a C-141 repo investigate and r tance of a C-141	elease ort by the remedia report	the best of my notifications a he NMOCD m ate contaminati does not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	indersta ctive act ceport" (reat to g respons	nd that purs tions for rele does not relie round water ibility for co	uant to NM ases which eve the ope , surface w mpliance v	OCD r may e rator o ater, hu with an	ules and ndanger f liability man health y other		
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Printed Name	*	Rebecca Ha	askell	ж. Т	Approved by Environmental Specialist:									
Title: Senior HSE Coordinator							Approval Date: Expiratio				Date:			
E-mail Address: rhaskell@concho.com							Conditions of Approval:					Attached		
<u>Date: March</u> Attach Addi	7, 2018 tional She	Phone: 432 ets If Necess	2-683-7443 sary											

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:					
COG OPERATING LLC	229137					
600 W Illinois Ave	Action Number:					
Midland, TX 79701	161238					
	Action Type:					
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)					
CONDITIONS						

Created By Condition Condition Date amaxwell 11/23/2022 None

Page 45 of 45

Action 161238