

Incident ID	nRM1929049253
District RP	1RP-5752
Facility ID	
Application ID	

Closure

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

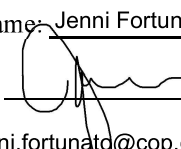
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jenni Fortunato

Title: Program Manager, Remediation

Signature: 

Date: 2/8/22

email: jenni.fortunato@cop.com

Telephone: 832-486-2477

OCD Only

Received by: Chad Hensley

Date: 03/09/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 03/09/2022

Printed Name: Chad Hensley

Title: Environmental Specialist Advanced



February 11, 2022

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

**Re: Closure Report
ConocoPhillips
MCA 300 Flowline Line Release
Unit Letter J, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico
1RP-5752
Incident ID # NRM1929049253**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to evaluate and assess a release that occurred from the Maljamar Cooperative Agreement (MCA) #300 well flowline. The MCA #300 well is located at 32.79611°, -103.77401°, approximately 2,700 feet (ft) southwest of the release site. The API # associated with the MCA #300 is 30-025-23984. The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point coordinates are 32.802891°, -103.769883°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on October 4, 2019. The release occurred as the result of a flowline rupture south of the MCA 2C header and encompassed an area of approximately 3,100 square feet. The leak resulted in a release of approximately 5 barrels (bbls) of crude oil and 33 bbls of produced water, of which 2 bbls of crude oil and 9 bbls of produced water were recovered during initial response activities. The NMOCD received the C-141 report form for the release on October 17, 2019 and subsequently assigned the Site the Remediation Permit (RP) number 1RP-5752 and Incident Identification (ID) NRM1929049253.

SITE CHARACTERIZATION

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

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are six wells within a ½ mile (800-meter) radius of the site with and average depth to groundwater at 99 ft below ground surface (bgs). The minimum depth to groundwater in the area is 75 ft bgs. The site characterization data is included in Appendix B.

Tetra Tech

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Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

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ConocoPhillips

REGULATORY FRAMEWORK

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

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT AND SUMMARY OF SAMPLING RESULTS

Based on review of the release area and available documentation, the release associated with 1RP-5752 occurred within the footprint of a previous release associated with 1RP-3579. The 1RP-3579 release encompasses and extends approximately 330 ft north of the 1RP-5752 release footprint.

In order to achieve horizontal and vertical delineation of the 1RP-5752 release extent, Tetra Tech personnel conducted soil sampling from March to July 2020 on behalf of COP. With an abundance of surface flowlines and subsurface injection lines running across and through the release footprint, a drilling rig was not able to safely access the release extent footprint and drill for release characterization and delineation. Therefore, the site assessment activities consisted of digging a series of test pits within the release extent footprint with a mini excavator for vertical delineation, as well as completing borings for horizontal delineation around the release extent perimeter using a hand auger.

For the additional delineation, a total of four (4) test pits (or trenches) were completed within the interior of the 1RP-5752 release extent. One test pit/trench were completed outside the 1RP-5752 release extent, as a portion of the investigation of the 1RP-3579 release extent. Trenches (T)-1 through T-4 were completed in the 1RP-5752 release footprint and T-11 was completed in the 1RP-3579 release footprint.

A series of auger holes (AH) were completed to complete horizontal delineation. These auger holes were installed along and around the perimeter of the release extent (to the east, south and west) to a depth of 4 ft bgs to achieve horizontal delineation. The auger holes were completed alongside the trench locations and named accordingly. For instance, AH-1E and AH-1W are locations which provide horizontal delineation on the east and west sides of T-1, respectively. In some areas, additional step out locations were required for horizontal delineation. These locations are designated with a numeral following the cardinal direction (i.e. AH-1E-2).

A total of 72 soil samples were collected from these various trench and boring locations and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for a combination of chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

During the initial assessment event in 2020, the analytical results associated with boring locations T-2 through T-4, AH-1S, AH-9W and AH-11W were above RRALs for TPH and/or chloride in the majority of the surface sample intervals. Analytical results associated with boring locations AH-1S-2, AH-1S-3, AH-1E-2,

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AH-1W, AH-1E, AH-2W, AH-2E, AH-3W, AH-3E, AH-4W, AH-4E, AH-11W-2 and AH-11E were below the RRALs for TPH, BTEX and chloride.

The MCA 2-C Production Header facility area has numerous underground injection lines and surface flowlines, in addition to piping and production equipment throughout the area. The 2020 sampling locations were chosen based on accessibility and to avoid safety issues due to the surface and subsurface infrastructure. Total depths of the borings and test pits ranged from 1 to 17.5 ft bgs.

T-3 was installed within the release footprint to specifically clarify the vertical extent of the release in the 1RP-5752 footprint. The analytical results associated with the 10'-11' sample at T-3 is the vertical delineation point for this release and is below the most stringent RRALs for chloride, TPH and BTEX.

The horizontal extent of the release footprint was defined through several iterations of hand auger borings. The analytical results associated with the AH-1S location exceeded the RRAL for TPH, however, AH-1S-2 & AH-1S-3 were completed as additional southern delineation points and were below the applicable RRALs. AH-2E, AH-3E, AH-4E, AH-9E, AH-10E and AH-11E bound the release to the east. After several iterative boring locations, the release extent is bound to the west by locations AH-1W, AH-2W, AH-3W, AH-4W, AH-9W-2, AH-9W-3, AH-9W-4 and AH-9W-5. AH-9N bounds the release to the north. The analytical results associated with these samples collected around the release area in the upper four ft were below the reclamation RRALs for total TPH (GRO + DRO + ORO), BTEX and/or chloride in all samples. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC.

REMEDATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on April 20, 2021 with fee application payment PO Number DWE5C210420C1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Chad Hensley on Wednesday, July 28, 2021. Mr. Hensley also executed page 4 of the C-141 form included with the Work Plan.

REMEDATION ACTIVITIES AND CONFIRMATION SAMPLING

From January 4 – January 14, 2022 Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Prior to breaking ground, permission was granted from the BLM (Shelly Tucker) via email on October 25, 2021 (Appendix D). Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. A total of thirteen (13) floor sample locations and nineteen (19) sidewall sample locations were collected during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-#, and confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are shown in Figure 5.

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

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Per the NMOCD-approved Work Plan, the observed impacted area was excavated to a maximum 4 feet below existing grade. Per the approved plan, the portion of the release extent that runs along buried lines were hand-dug to 4 feet bgs. Subcontractor personnel exercised caution while working around the surface and subsurface flowlines in the vicinity. Based on visual cues and stressed vegetation, the northern portion of the proposed excavation was extended approximately 60-foot north. Two additional floor samples and 3 additional sidewall samples were collected to account for this additional remediated area. This area is indicated in Figure 5. Thus, after confirmation sampling at the floor sample and sidewall sample locations, all confirmation soil samples were below the respective RRALs for chloride, BTEX, and TPH. The results of the January 2022 confirmation sampling events are summarized in Table 2.

All the excavated material was transported offsite for proper disposal. Approximately 332 cubic yards of material were transported to the R360 facility in Hobbs, New Mexico. Photographs from the excavated areas prior to backfill are provided in Appendix E. Once confirmation sampling activities were completed and associated analytical results were below the RRALs, the excavated areas were backfilled with clean material to surface grade. The reclaimed areas contain soil backfill consisting of suitable material to establish vegetation at the site. Copies of the waste manifests are included in Appendix F.

As prescribed in the Work Plan, the backfilled areas were seeded in January 2022 to aid in revegetation. Based on the soils at the site and the approved Work Plan, the New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture were used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

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

CONCLUSION

ConocoPhillips respectfully requests closure of the release based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2661.

Sincerely,
Tetra Tech, Inc.



Nicholas M. Poole
Project Lead



Christian M. Llull, P.G.
Program Manager

cc:
Ms. Jenni Fortunato, RMR – ConocoPhillips
Ms. Shelly Tucker, BLM

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February 11, 2022

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Initial Response Map
- Figure 4 – Assessment Map
- Figure 5 – Excavation Extents and Confirmation Sampling Locations Map

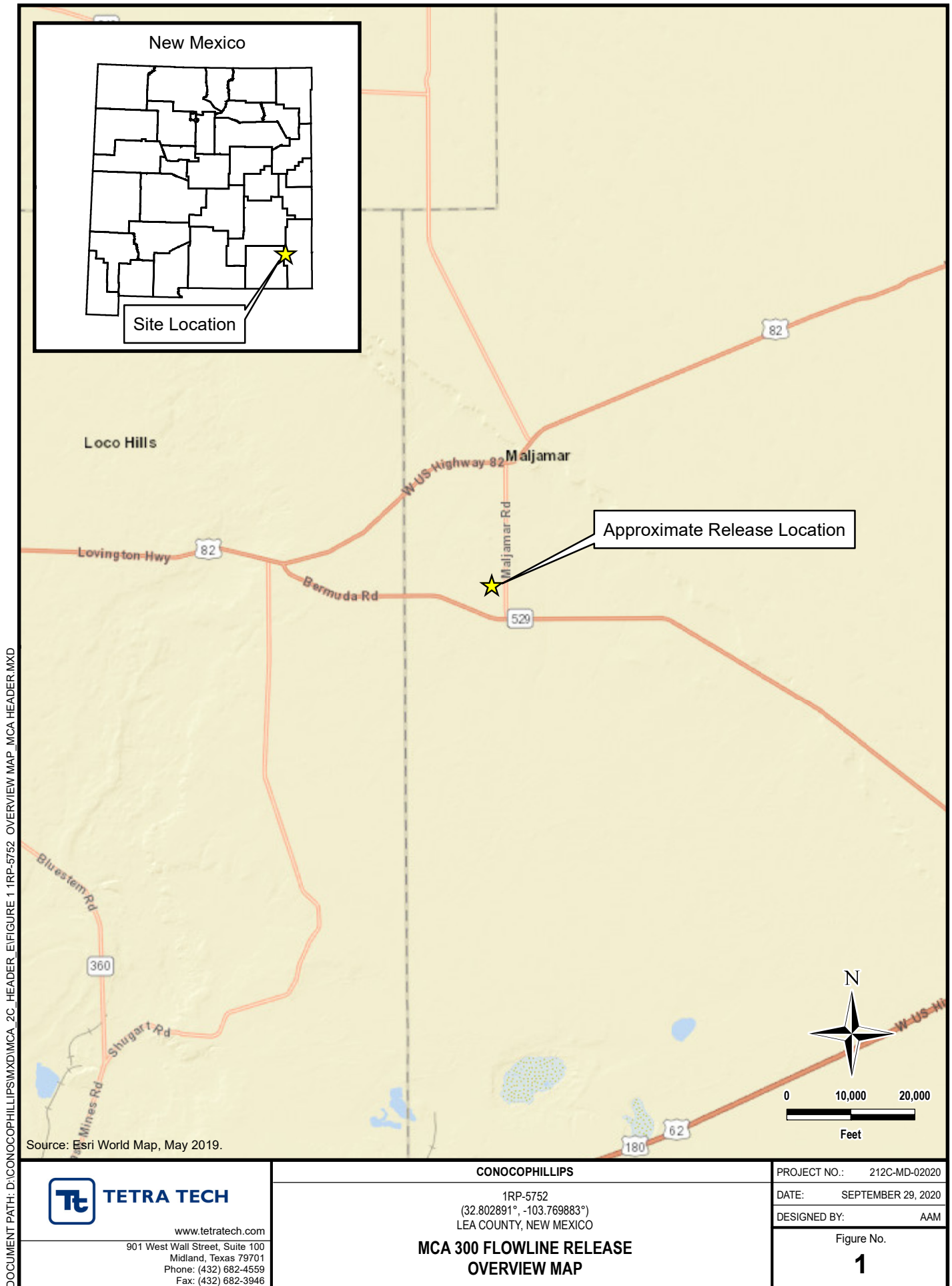
Tables:

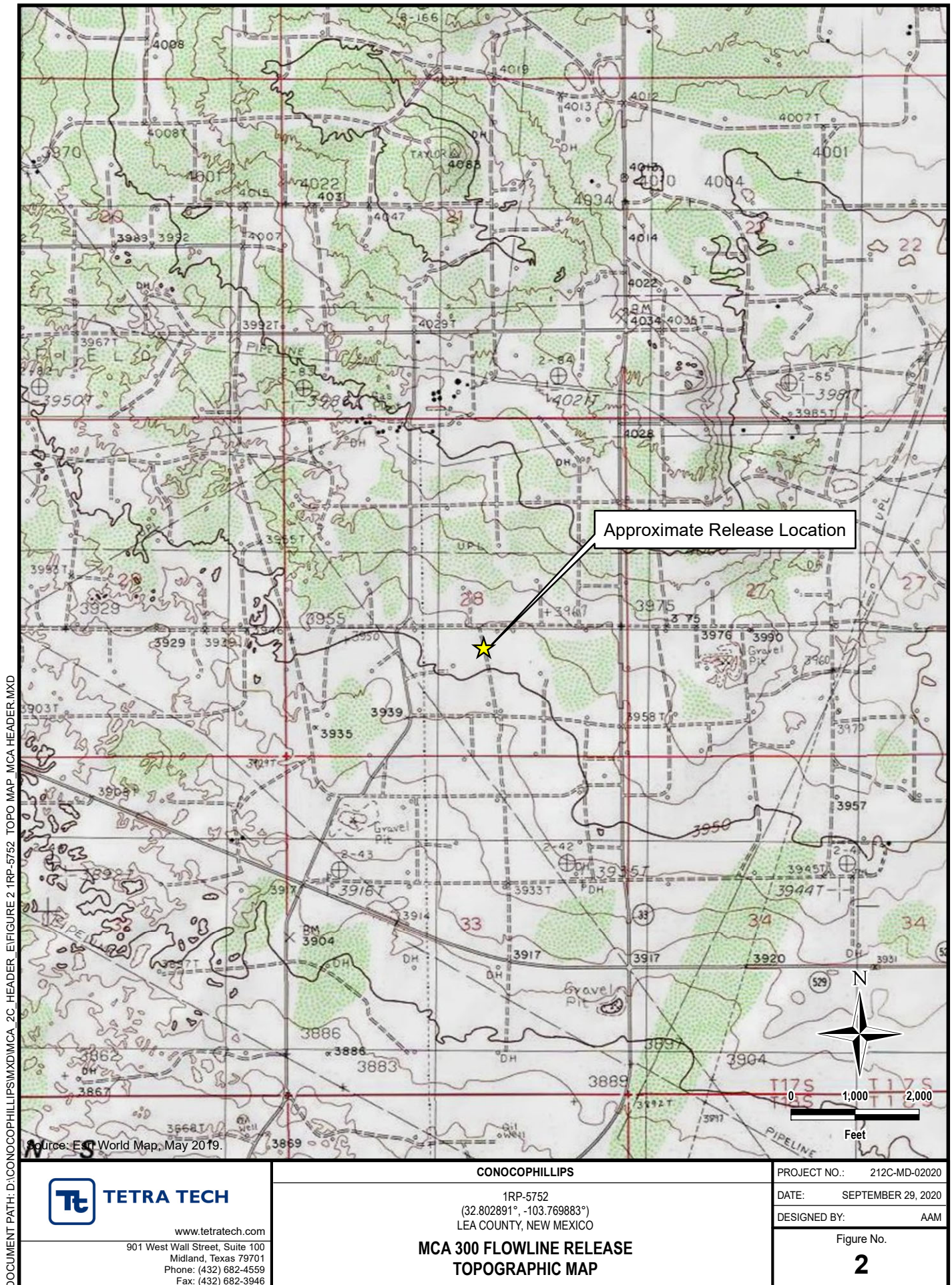
- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Soil Remediation

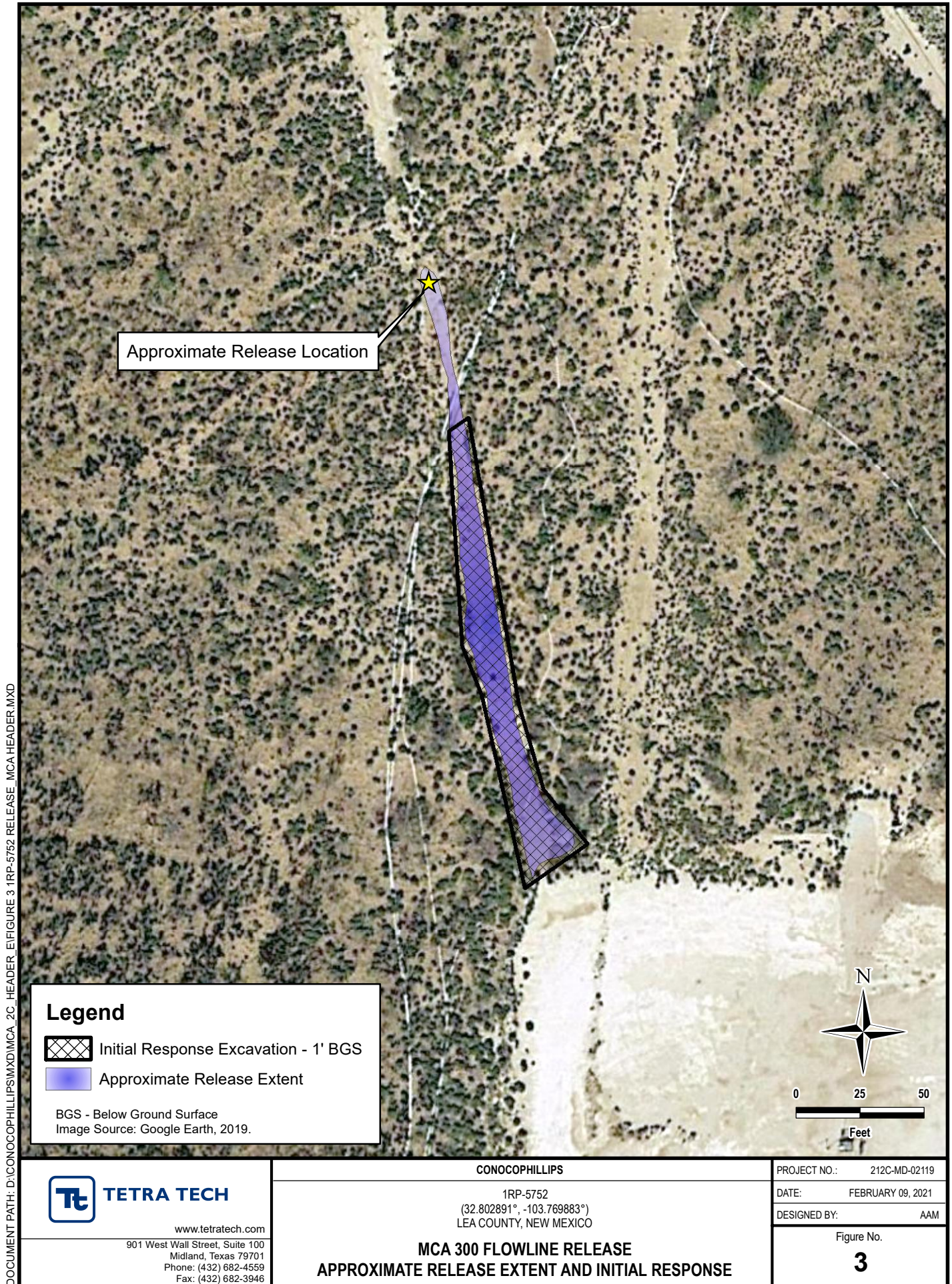
Appendices:

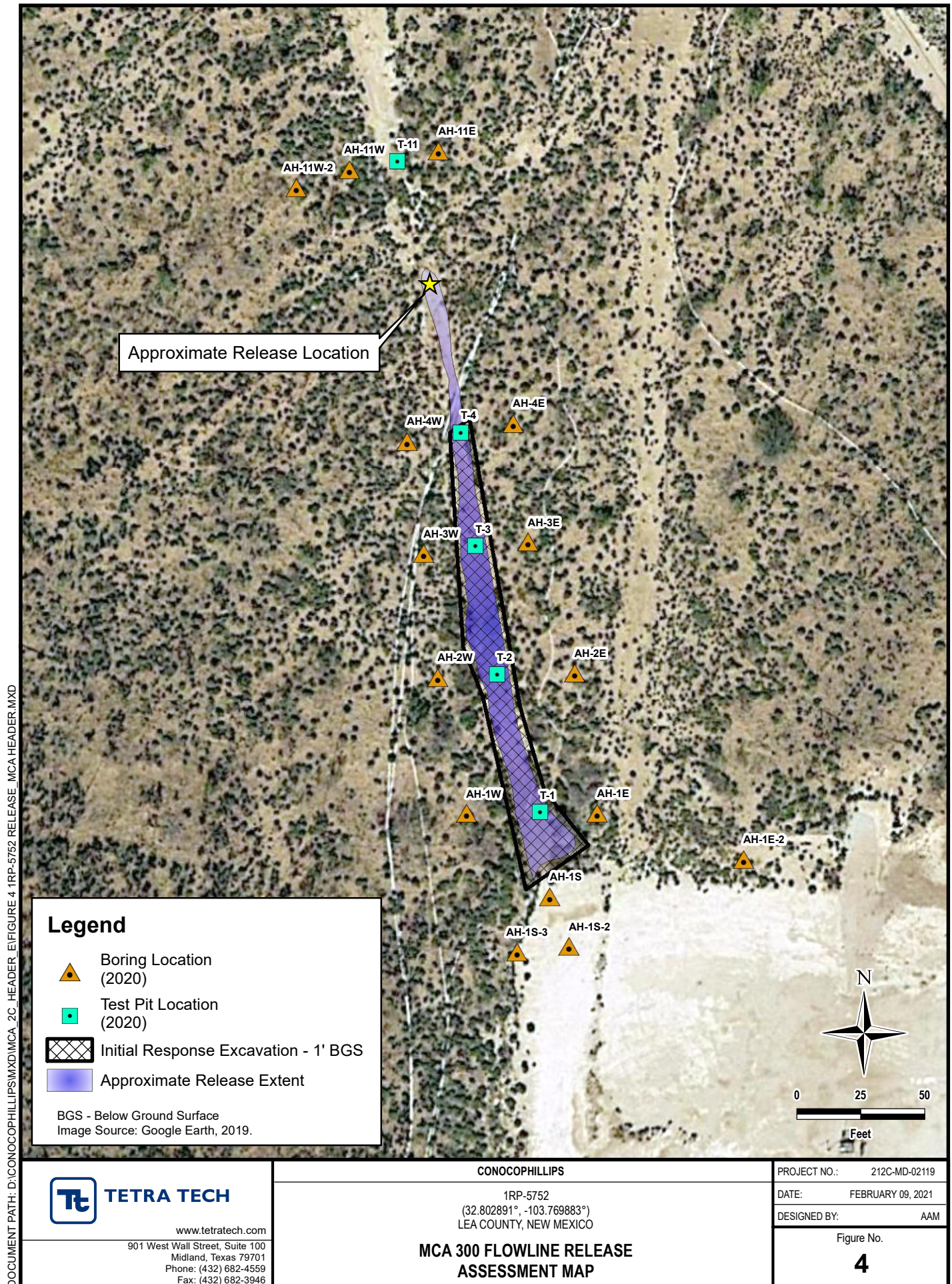
- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data
- Appendix D – BLM Correspondence
- Appendix E – Photographic Documentation
- Appendix F – Waste Manifests

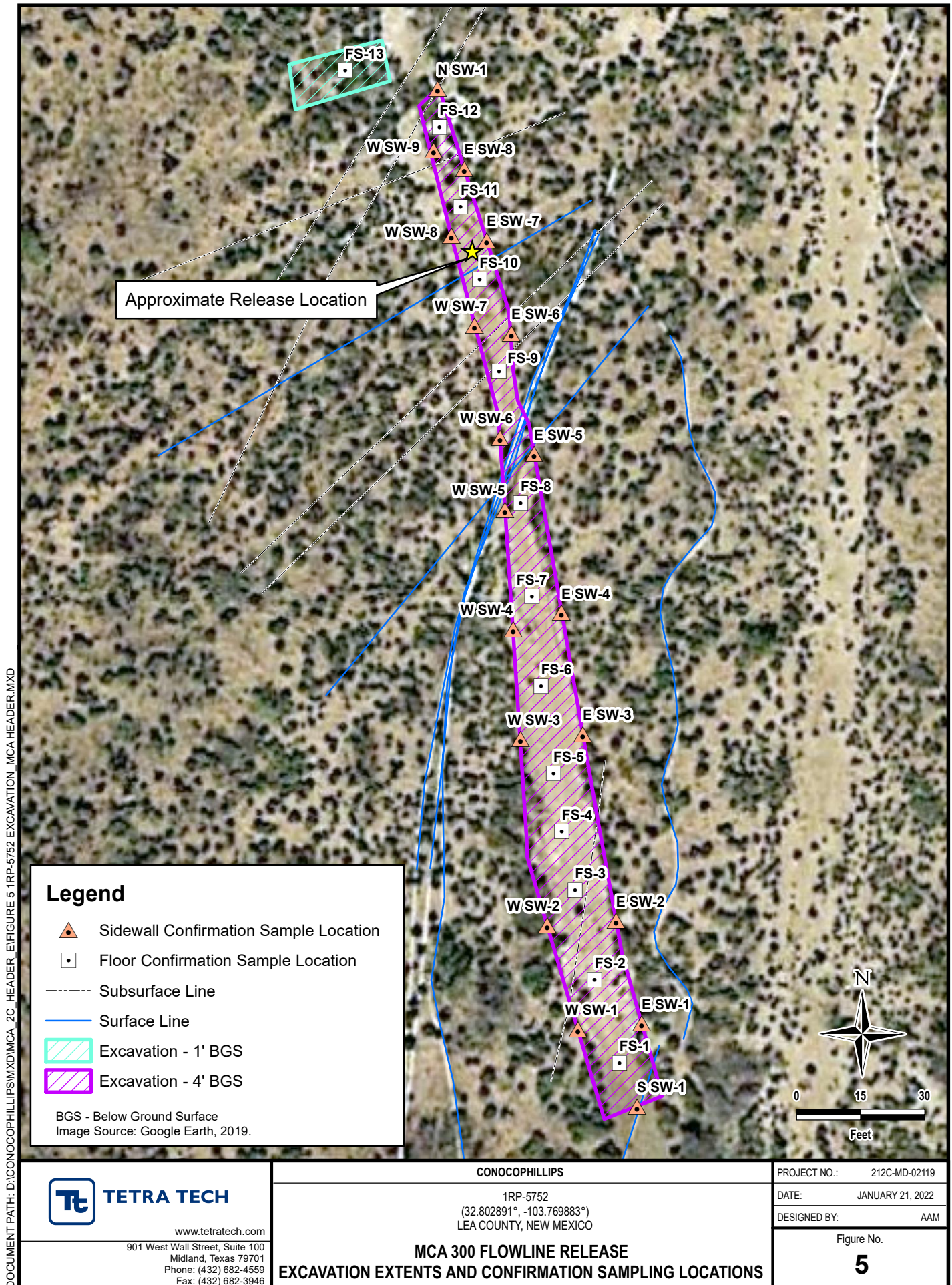
FIGURES











TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - 1RP-5752
CONOCOPHILLIPS
MCA 300 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²								TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	C ₃ - C ₁₀	Q	mg/kg	Q	mg/kg	Q	mg/kg
T-1	3/3/2020	1-2	395	0.1	243		< 0.00112		< 0.00562		< 0.00281		< 0.00731		-	< 0.114		6.05		16.3		22.4
		3-4	390	-	130		< 0.00129		< 0.00643		< 0.00321		< 0.00836		-	< 0.130		< 5.14		1.31	J	1.31
		5-6	190	0.0	34.9		< 0.00125		< 0.00626		< 0.00313		< 0.00814		-	< 0.110		< 4.39		4.24	J	4.24
AH-1E	3/3/2020	0-1	100	0.0	8.57	B J	< 0.00102		< 0.00510		< 0.00255		< 0.00664		-	< 0.102		16.0		42.3		58.3
		3-4	26	0.0	51.6		< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	< 0.109		5.27		19.8		25.1
AH-1E-2	7/23/2020	0-1	62.4	1.8	< 21.2		< 0.00106		< 0.00531		< 0.00265		< 0.00690		-	< 0.106		< 4.24		1.59	J	1.59
		2-3	49.4	2.2	< 21.0		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-	< 0.105		< 4.21		3.96	J	3.96
AH-1S	3/3/2020	0-1	120	0.0	11.0	B	< 0.00125		< 0.00627		< 0.00313		< 0.00815		-	< 0.104		19.1	J	41.4	J	60.5
		3-4	95	-	20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00691		-	< 0.106		67.8		74.6		142
AH-1S-2	7/8/2020	0-1	225	0.0	< 21.4		< 0.00107		< 0.00535		< 0.00268		< 0.00696		-	< 0.107		3.23	J	14.3		17.5
		2-3	90	0.0	< 20.7		< 0.00104		< 0.00519		< 0.00259		< 0.00674		-	< 0.104		2.53	J	11.7		14.2
AH-1S-3	7/24/2020	0-1	62.6	3.2	< 24.2		< 0.00142		< 0.00711		< 0.00356		< 0.00925		-	0.0703	J V3	< 4.84		1.43	J	1.50
		2-3	231	4.6	120		< 0.00103		< 0.00514		< 0.00257		< 0.00669		-	< 0.103		< 4.12		1.75	J	1.75
		4-5	2810	1.5	3250		< 0.00172		< 0.00861		< 0.00431		< 0.0112		-	< 0.110		< 4.42		4.11	J	4.11
AH-1S-4	7/24/2020	0-1	98.1	1.1	31.1		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-	< 0.111		8.26		28.2		36.5
		2-3	73.2	1.2	35.9		< 0.00130		< 0.00651		< 0.00325		< 0.00846		-	< 0.115		< 4.60		1.43	J	1.43
		4-5	109	1.1	25.6		< 0.00107		< 0.00533		< 0.00266		< 0.0069		-	< 0.107		< 4.26		4.00	J	4.00
AH-1W	3/3/2020	0-1	27	0.0	1.45	B J	< 0.00103		< 0.00515		< 0.00257		< 0.00669		-	< 0.103		< 4.12		5.88		5.88
		3-4	56	0.0	9.36	B J	< 0.00106		< 0.00528		< 0.00264		< 0.00686		-	< 0.106		< 4.22		2.57	B J	2.57
T-2	3/3/2020	1-2	400	0.0	131		< 0.00106		< 0.00530		0.000906	J	0.0103		0.0112	0.0254	J	458		445		903
		3-4	200	-	190		< 0.00112		< 0.00561		< 0.00281		< 0.00730		-	0.0308	J	43.9		35.7		79.6
		5-6	315	-	125		< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	0.0257	J	63.0		48.8		112
AH-2E	3/3/2020	0-1	58	0.0	1.77	B J	< 0.00205		< 0.0103		< 0.00513		< 0.0133		-	< 0.103	J3	< 4.10		1.34	J	1.34
		3-4	26	-	1.79	B J	< 0.00120		< 0.00601		< 0.00300		< 0.00781		-	< 0.120	J3	< 4.81		1.44	J	1.44
AH-2W	3/3/2020	0-1	54	0.0	4.90	B J	< 0.00101		< 0.00505		< 0.00252		< 0.00656		-	< 0.101	J3	1.79	J	10.6		12.4
		3-4	480	-	137		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-	< 0.106	J3	< 4.24		4.13	J	4.13
T-3	3/4/2020	1-2	1929	499	970		0.000746	J	< 0.00533		< 0.00267		< 0.00693		0.000746	2.83	J3	489		270		762
		3-4	2400	4.8	3100		< 0.00113		< 0.00567		< 0.00283		< 0.00737		-	< 0.113	J3	< 4.53		2.42	J	2.42
		5-6	1200	2.2	NS		NS		NS		NS		NS		-	NS		NS		NS		-
		6-7	1250	3.0	1140		< 0.00108		< 0.00538		< 0.00269		< 0.00700		-	< 0.108	J3	2.12	J	1.64	J	3.76
		8-9	1220	-	NS		NS		NS		NS		NS		-	NS		NS		NS		-
		10-11	924	-	879		< 0.00106		< 0.00532		< 0.00266		< 0.00692		-	< 0.106		< 4.26		0.543	J	0.543
AH-3E	3/4/2020	0-1	54	0.0	2.50	B J	< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	< 0.109		2.49	J	8.59		11.1
		3-4	120	-	6.75	B J	< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	< 0.104		< 4.17		5.17		5.17
AH-3W	7/24/2020	0-1	89.4	2.7	< 20.6		< 0.00114		< 0.00571		< 0.00286		< 0.00743		-	< 0.103		5.95	J	31.0		37.0
		2-3	158	3.1	40.0		< 0.00102		< 0.00512		< 0.00256		< 0.00666		-	< 0.102		< 12.2		19.8		19.8

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CONOCOPHILLIPS
MCA 300 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²										TPH ³					
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			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	C ₃ - C ₁₀	Q	C ₁₀ - C ₂₈	Q	C ₂₈ - C ₄₀	Q	mg/kg
T-4	3/4/2020	1-2	2500	547.0	988		< 0.00109		< 0.00543		< 0.00272		< 0.00706		-	< 0.109		295		214		509
		2-4	4750	3.7	-		-		-		-		-		-	-		-		-		-
		5-6	6600	1.3	5780		< 0.00109		< 0.00543		< 0.00272		< 0.00706		-	< 0.109		< 4.35		0.399	J	0.399
		8-9	5500	-	5290		< 0.00108		< 0.00542		< 0.00271		< 0.00704		-	< 0.108		11.6		10.1		21.7
AH-4E	3/3/2020	0-1	36	0.1	2.79	B J	< 0.00104		< 0.00521		< 0.00261		< 0.00678		-	0.0568	B J	7.86		29.7		37.6
		3-4	1400	0.0	106		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	0.0258	J	8.59		30.2		38.8
AH-4W	3/3/2020	0-1	23	0.0	2.64	B J	< 0.00104		< 0.00521		< 0.00260		< 0.00677		-	0.0422	B J	7.90		28.0		35.9
		3-4	695	0.0	285		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-	< 0.106		2.16	J	7.64		9.80
T-11	3/10/2020	1-2	1200	0.3	225		< 0.00121		< 0.00603		< 0.00302		< 0.00784		-	0.177		11.8		14.2		26.2
		3-4	1900	0.0	-		-		-		-		-		-	-		-		-		-
		5-6	2400	0.0	-		-		-		-		-		-	-		-		-		-
		7-8	1200	0.0	-		-		-		-		-		-	-		-		-		-
		9-10	1250	0.0	-		-		-		-		-		-	-		-		-		-
		14-15	450	0.0	545		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	0.0631	B J	< 4.20		0.557	J	0.620
AH-11E	3/10/2020	0-1	54	0.1	3.39	B J	< 0.00105		< 0.00524		< 0.00262		< 0.00681		-	< 0.105		8.83		28.8		37.6
		3-4	325	0.0	45.7		< 0.00107		< 0.00535		< 0.00267		< 0.00695		-	< 0.107		2.82	J	16.5		19.3
AH-11W	3/10/2020	0-1	38	0.1	3030		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-	< 0.107		2.46	J	10.8		13.3
		3-4	413	0.0	42.6		< 0.00107	J3	< 0.00537	J3	< 0.00268	J3	< 0.00697	J3	-	< 0.107		< 4.29		5.92		5.92
AH-11W-2	7/8/2020	0-1	106	0.7	< 20.1		< 0.00100		< 0.00501		< 0.00251		< 0.00652		-	< 0.100		6.11		33.6		39.7
		2-3	76	2.1	< 22.8		< 0.00129		< 0.00643		< 0.00322		< 0.00836		-	< 0.114		5.65		23.5		29.2

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
NS Not sampled
NA Sample not analyzed
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics
1 EPA Method 300.0
2 EPA Method 8260B
3 EPA Method 8015
4 EPA Method 8015D/GRO

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate depth intervals proposed for excavation and remediation.

QUALIFIERS:

B The same analyte is found in the associated blank.
J The identification of the analyte is acceptable; the reported value is an estimate.
J3 The associated batch QC was outside established quality control range for precision.
T8 Sample(s) received past/too close to holding time expiration.
V3 The internal standard exhibited poor recovery due to sample matrix interference.
The analytical results will be biased high. BDL results will be unaffected.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL REMEDIATION - 1RP-5752
CONOCOPHILLIPS
MCA 300 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		C ₆ - C ₁₀			> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
FS-1	1/12/2022	4			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-2	1/12/2022	4			128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-3	1/12/2022	4			3,840		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-4	1/12/2022	4			224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-5	1/12/2022	4			3,920		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-6	1/12/2022	4			800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-7	1/11/2022	4			1,320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-8	1/11/2022	4			8,000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-9	1/11/2022	4			7,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-10	1/11/2022	4			4,240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-11	1/11/2022	4			1,010		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-12	1/11/2022	4			4,880		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-13	1/22/2022	1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
NSW-1	1/10/2022	-			176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-1	1/12/2022	-			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-2	1/12/2022	-			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-3	1/12/2022	-			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-4	1/12/2022	-			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-5	1/10/2022	-			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-6	1/10/2022	-			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-7	1/10/2022	-			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-8	1/10/2022	-			224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-1	1/12/2022	-			400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-1	1/12/2022	-			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		15.8		< 10.0		15.8	
WSW-2	1/12/2022	-			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-3	1/12/2022	-			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-4	1/12/2022	-			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-5	1/10/2022	-			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-6	1/10/2022	-			192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-7	1/10/2022	-			176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-8	1/10/2022	-			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-9	1/10/2022	-			176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

APPENDIX A C-141 Forms

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	NRM1929049253
District RP	1RP-5752
Facility ID	fCOH0815142265
Application ID	pRM1929048645

Release Notification

Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name ConocoPhillips Company	Contact Telephone 432/210-7037
Contact email g.fejevary@cop.com	Incident # (assigned by OCD)
Contact mailing address 5735 SW 7000 Andrews, TX 79714	

Location of Release Source

Latitude 32.80380 Longitude -103.76900
(NAD 83 in decimal degrees to 5 decimal places)

Site Name MCA 300 FLOWLINE	Site Type flowline
Date Release Discovered 10/4/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	28	17S	32E	LEA

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 33	Volume Recovered (bbls) 9
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Flowline rupture south to MCA 2C Header.

Form C-141

State of New Mexico
Oil Conservation Division

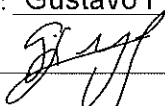
Page 2

Incident ID	NRM1929049253
District RP	1RP-5752
Facility ID	fCOH0815142265
Application ID	pRM1929048645

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? it was more than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, email sent to Bradford Billings, District 1 spill reporting email address and Dylan Rose-Coss	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Gustavo Fejervary</u> Signature:  email: <u>g.fejervary@cop.com</u>	Title: <u>Environmental Coordinator</u> Date: <u>10/16/19</u> Telephone: <u>432/210-7037</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>10/17/2019</u>	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

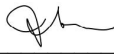
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ 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)

Deferral Requests Only: *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: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	


Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 12721 POD3	RA	LE		2	3	4	28	17S	32E	615417	3629979	275	115		
RA 12721 POD2	RA	LE		1	1	4	28	17S	32E	615055	3630407	324	124	75	49
RA 12721 POD5	RA	LE		2	4	4	28	17S	32E	615650	3629961	499	130	124	6
RA 12721 POD1	RA	LE		3	2	3	28	17S	32E	614645	3630141	528	125		
RA 12721 POD4	RA	LE		1	1	2	33	17S	32E	615055	3629589	528	140		
RA 12721 POD6	RA	LE		1	2	2	33	17S	32E	615530	3629431	763	130		

Average Depth to Water: **99 feet**

Minimum Depth: **75 feet**

Maximum Depth: **124 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 615171.79

Northing (Y): 3630105

Radius: 800

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.

2/5/21 4:12 PM





Page 1 of 1

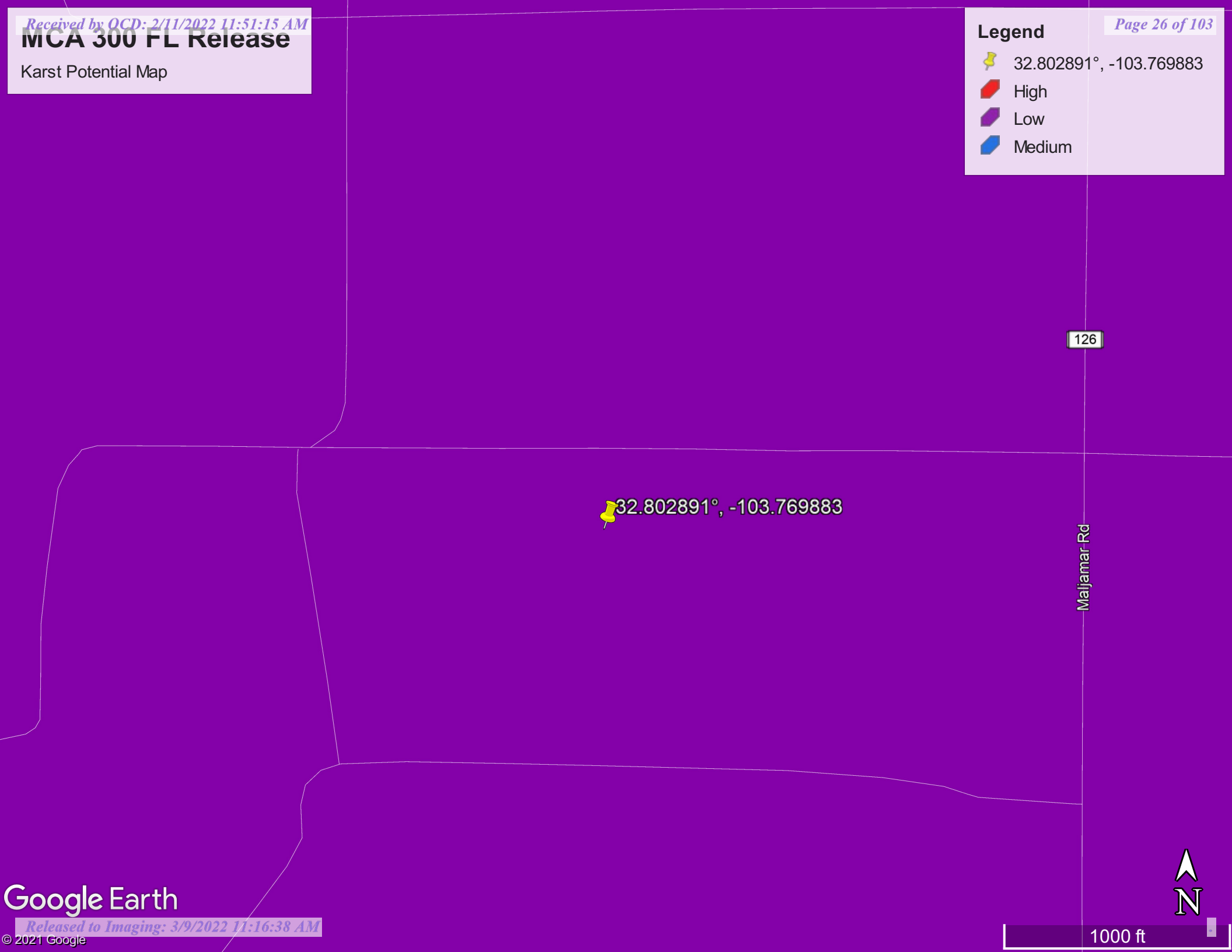
WATER COLUMN/ AVERAGE
DEPTH TO WATER

MCA 300 FL Release

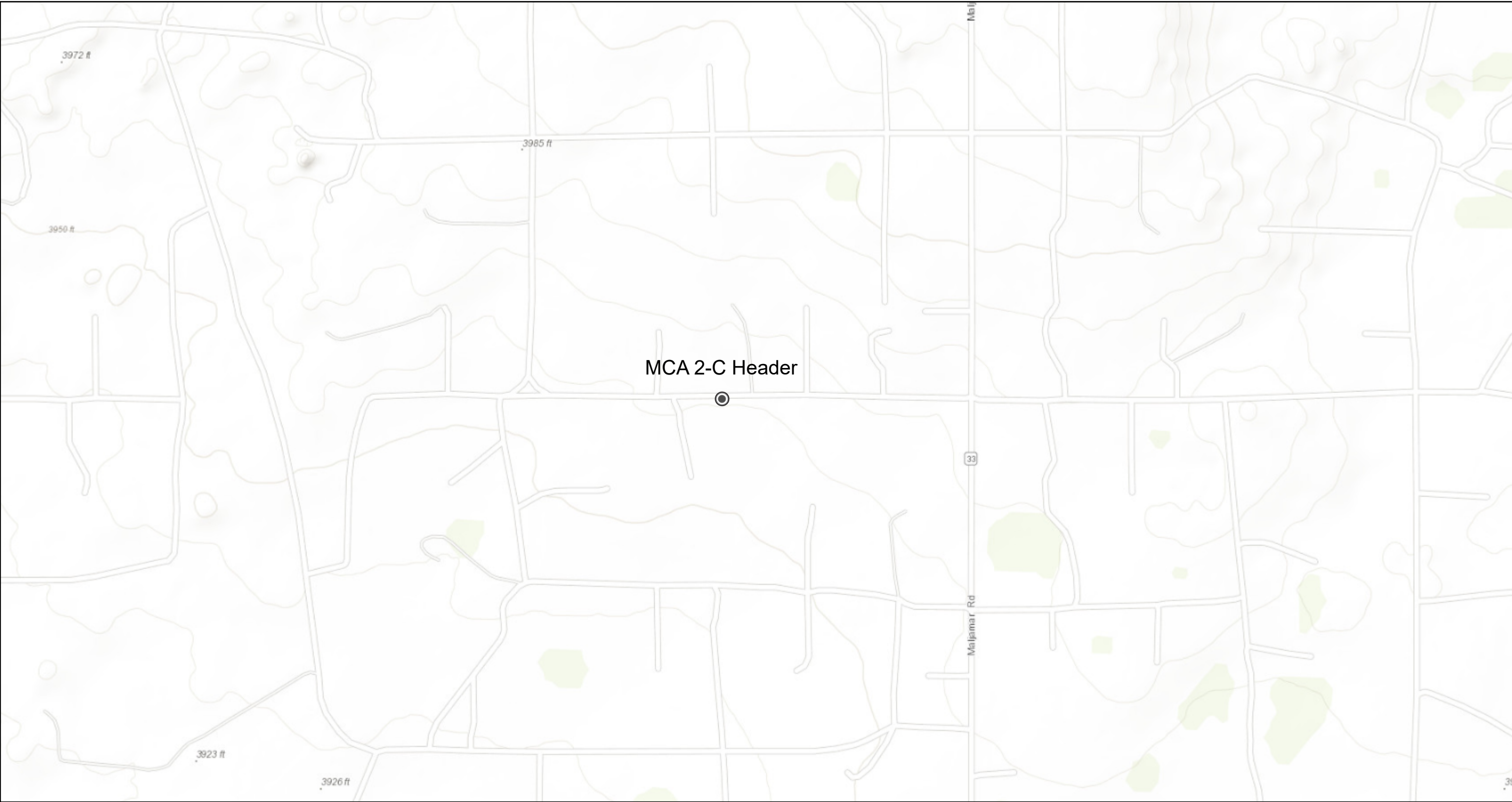
Karst Potential Map

Legend

-  32.802891°, -103.769883
-  High
-  Low
-  Medium

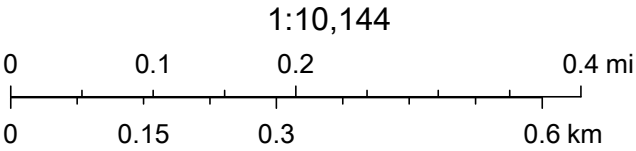


MCA 2-C Header



3/27/2020, 12:37:39 PM

- Override 1
- NMDOT GPS ROADS
- PLJV Probable Playas
- New Mexico Counties
- NMDOT Railroads
- OSE Streams
- New Mexico Towns
- OSE Water-bodies



US Census Bureau, NMDOT, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the

APPENDIX C

Laboratory Analytical Data



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 11, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 300 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/10/22 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 5 (H220096-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/11/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 6 (H220096-02)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/11/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 7 (H220096-03)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08		
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92		
Total BTEX	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/11/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 8 (H220096-04)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTEx	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/11/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 5 (H220096-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTEX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/11/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 6 (H220096-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/11/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 7 (H220096-07)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTEx	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/11/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 8 (H220096-08)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTEx	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/11/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 9 (H220096-09)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92	
Total BTX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/11/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/10/2022	Sampling Date:	01/10/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 1 (H220096-10)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	2.08		
Toluene*	<0.050	0.050	01/11/2022	ND	1.96	98.1	2.00	3.11		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	1.96	98.2	2.00	2.63		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.10	102	6.00	2.92		
Total BTEx	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/11/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	237	119	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	220	110	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 12, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 300 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/11/22 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/12/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 7 (4') (H220112-01)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.12	106	2.00	1.65	
Toluene*	<0.050	0.050	01/11/2022	ND	2.00	100	2.00	2.46	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.00	100	2.00	2.35	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.24	104	6.00	2.05	
Total BTEX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1320	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	240	120	200	1.19	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/12/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 8 (4') (H220112-02)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2022	ND	2.12	106	2.00	1.65		
Toluene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.46		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.35		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.24	104	6.00	2.05		
Total BTEX	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	240	120	200	1.19	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/12/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 9 (4') (H220112-03)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2022	ND	2.12	106	2.00	1.65	
Toluene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.46	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.35	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.24	104	6.00	2.05	
Total BTEX	<0.300	0.300	01/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	240	120	200	1.19	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/12/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 10 (4') (H220112-04)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2022	ND	2.12	106	2.00	1.65	
Toluene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.46	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.35	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.24	104	6.00	2.05	
Total BTEx	<0.300	0.300	01/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	240	120	200	1.19	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/12/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 11 (4') (H220112-05)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2022	ND	2.12	106	2.00	1.65	
Toluene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.46	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.35	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.24	104	6.00	2.05	
Total BTEx	<0.300	0.300	01/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	240	120	200	1.19	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/12/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 12 (4') (H220112-06)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2022	ND	2.12	106	2.00	1.65	
Toluene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.46	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.00	100	2.00	2.35	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.24	104	6.00	2.05	
Total BTEx	<0.300	0.300	01/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	240	120	200	1.19	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 13, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 300 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/22 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 1 (H220125-01)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTX	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/13/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	15.8	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 2 (H220125-02)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/13/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	5.88	98.0	6.00	5.69		
Total BTX	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/13/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 3 (H220125-03)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/13/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	5.88	98.0	6.00	5.69		
Total BTEX	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 4 (H220125-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/13/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	5.88	98.0	6.00	5.69		
Total BTX	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 1 (H220125-05)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25	
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42	
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87	
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81	
Total BTX	<0.300	0.300	01/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 2 (H220125-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25	
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42	
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87	
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81	
Total BTX	<0.300	0.300	01/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 3 (H220125-07)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25	
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42	
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87	
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81	
Total BTX	<0.300	0.300	01/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 4 (H220125-08)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25	
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42	
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87	
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81	
Total BTX	<0.300	0.300	01/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 1 (H220125-09)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 1 (4') (H220125-10)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	215	108	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	227	113	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 2 (4') (H220125-11)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25	
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42	
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87	
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81	
Total BTX	<0.300	0.300	01/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	215	108	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	227	113	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 3 (4') (H220125-12)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	215	108	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	227	113	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 131 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 4 (4') (H220125-13)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	215	108	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	227	113	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 5 (4') (H220125-14)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2022	ND	215	108	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	227	113	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 6 (4') (H220125-15)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	01/13/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	194	97.1	200	0.740	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	202	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	MCA - 300 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02599	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 13 (1') (H220125-16)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/13/2022	ND	2.05	102	2.00	3.25		
Toluene*	<0.050	0.050	01/13/2022	ND	1.93	96.4	2.00	3.42		
Ethylbenzene*	<0.050	0.050	01/13/2022	ND	1.93	96.3	2.00	3.87		
Total Xylenes*	<0.150	0.150	01/13/2022	ND	6.00	100	6.00	3.81		
Total BTEx	<0.300	0.300	01/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/13/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	194	97.1	200	0.740	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	202	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips		P.O. #:
Project Manager: Christian Llull		Company: Tetra Tech
Address: Christian.Llull@TetraTech.com		Attn: Christian Llull
City:	State:	Zip:
Phone #:	Fax #:	Address: 901 W. Wall St. Ste 100
Project #: 212C-MD-02599	Project Owner:	City: Midland
Project Name: MCA300 Flowline Release		State: TX Zip: 79701
Project Location: Lea County, NM		Phone #: 512-338-1667
Sampler Name: Andrew Garcia	Fax #:	

FOR LAB USE ONLY	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	TPH 8015M	BTEX 8021B	Chloride 4500	Hold
TS-1/1/22										
Lab I.D.										
H220125										
1	MSW-1					1/12/22 9:00	X	X	X	
2	MSW-2					9:30				
3	MSW-3					10:00				
4	MSW-4					10:30				
5	ESW-1					11:00				
6	ESW-2					11:30				
7	ESW-3					12:00				
8	ESW-4					12:15				
9	SSW-1					12:30				
10	FS-1 (4')					12:45				

Relinquished By: Andrew Garcia	Date: 1/12/22	Received By: [Signature]
Relinquished By:	Date:	Received By:

Delivered By: (Circle One) 0800 30	Sample Condition	CHECKED BY: [Signature]
Sampler - UPS - Bus - Other: -50c #113	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	

REMARKS: Email results to Christian.Llull@TetraTech.com
<input type="checkbox"/> Standard
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
<input type="checkbox"/> Rush Charges Authorized
<input type="checkbox"/> Special Report Limits or TRRP Report

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Conoco Phillips	P.O. #:	
Project Manager:	Christian Lull	Company:	Tetra Tech
Address:	Christian.Lull@TetraTech.com	Attn:	Christian Lull
City:		Address:	901 W. Wall St. Ste 100
Phone #:		City:	Midland
Project #:	212C-MD-02599	State:	TX
Project Name:	MCA300 Flowline Release	Zip:	79701
Project Location:	Lea County, NM	Phone #:	512-338-1667
Sampler Name:	Andrew Garcia	Fax #:	
MATRIX		PRESERV	SAMPLING

[illegible]

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Relinquished By: <u>Andrew Garcia</u>				Date: <u>1/12/22</u>	Received By: <u>Scott Henderson</u>
Relinquished By: _____				Time: <u>16:10</u>	
Date: _____					
Time: _____					
Received By: _____					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (initials)	
<u>Driver</u>		Cool <input checked="" type="checkbox"/> / Intact <input checked="" type="checkbox"/>		<u>SH</u>	
Sampler - UPS - Bus - Other: <u>-150 #113</u>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
REMARKS: Email results to Christian.Lui@TetraTech.com					
[] Standard					
[<input checked="" type="checkbox"/>] RUSH: Same Day <u>24 hr.</u> 48 hr. 72 hr.					
[] Rush Charges Authorized					
[] Special Report Limits or TRRP Report					

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

APPENDIX D

BLM Correspondence

Llull, Christian

From: Tucker, Shelly J <stucker@blm.gov>
Sent: Monday, October 25, 2021 10:04 AM
To: Llull, Christian
Subject: Re: [EXTERNAL] Fwd: Request for Approval - Remediation

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

You are cleared to proceed.

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

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Realty

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

575.234.5706 - Direct
575.200.0614

stucker@blm.gov

From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Sunday, October 24, 2021 11:37 AM
To: Tucker, Shelly J <stucker@blm.gov>
Subject: [EXTERNAL] Fwd: Request for Approval - Remediation

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Shelly, any chance you can clear this site today?

If not no big deal, I can push to Tuesday.
I promised I would let COP and our subs know if we cannot begin tomorrow.

Christian

Get [Outlook](#) for iOS

From: Llull, Christian
Sent: Friday, October 22, 2021 7:51:40 AM
To: stucker@blm.gov <stucker@blm.gov>
Subject: RE: Request for Approval - Remediation

Good morning Shelly. I hope you finally got through that training!

I have to give COP an update on the scheduled remediation at the MCA 300.
Did you have a chance to load this one into your GIS yet and clear it? We can push this kickoff to Tuesday if you need time.

Christian

From: Llull, Christian
Sent: Thursday, October 21, 2021 10:59 AM
To: stucker@blm.gov
Subject: FW: Request for Approval - Remediation

Shelly:

Attached is the NMOCD approved WP.
Attached is the NMOCD approval email.

Christian

From: Llull, Christian
Sent: Tuesday, October 12, 2021 5:57 PM
To: aaarias@blm.gov
Cc: Maunder, Susan B <Susan.B.Maunder@conocophillips.com>
Subject: Request for Approval - Remediation

Art,

Good afternoon. I write on behalf of ConocoPhillips, and via Susan Maunder.

Tetra Tech is assisting with remediation of a previously reported unplanned release with the NMOCD. The Release Characterization Work Plan was submitted to NMOCD (with appropriate fee) on 4/20/2021. NMOCD has approved the Workplan/Remediation proposal via email dated 7/28/2021. The approved Work Plan states ConocoPhillips proposes to begin remediation activities at the Site within 90 days of NMOCD plan approval, which is a deadline of **10/26/2021**.

In order to complete the initial remediation and the submittal process we are requesting verbal approval to proceed with further cleanup at the location listed below.
The figures from the WP are attached.
Aerial image below indicates the location to be adjacent to or in previously disturbed areas.
Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

Name of Release: MCA 300 Flowline Release
Unit Letter J, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico

1RP-5752**Incident Identification (ID) NRM1929049253****Approximate Release Location: 32.802891°, -103.769883****Date Release Discovered: October 4, 2019****Closest Well and Location: API 30-025-39766 / Well Name MCA UNIT #480****Volume Released: Approximately 5 barrels (bbls) of crude oil and 33 bbls of produced water were released, of which 2 bbls of crude oil and 9 bbls of produced water were reported recovered.****The observed impacted area in the field is approximately 3,100 square feet; Remediation with backhoes and track hoes and by hand shovels near buried flowlines.**

Please let me know at your earliest convenience that we can proceed.

Thank you very much for your time on this request.

Christian

512-565-0190

**Christian Llull, P.G.** | Program ManagerDirect +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetrattech.com

Tetra Tech | *Leading with Science®* | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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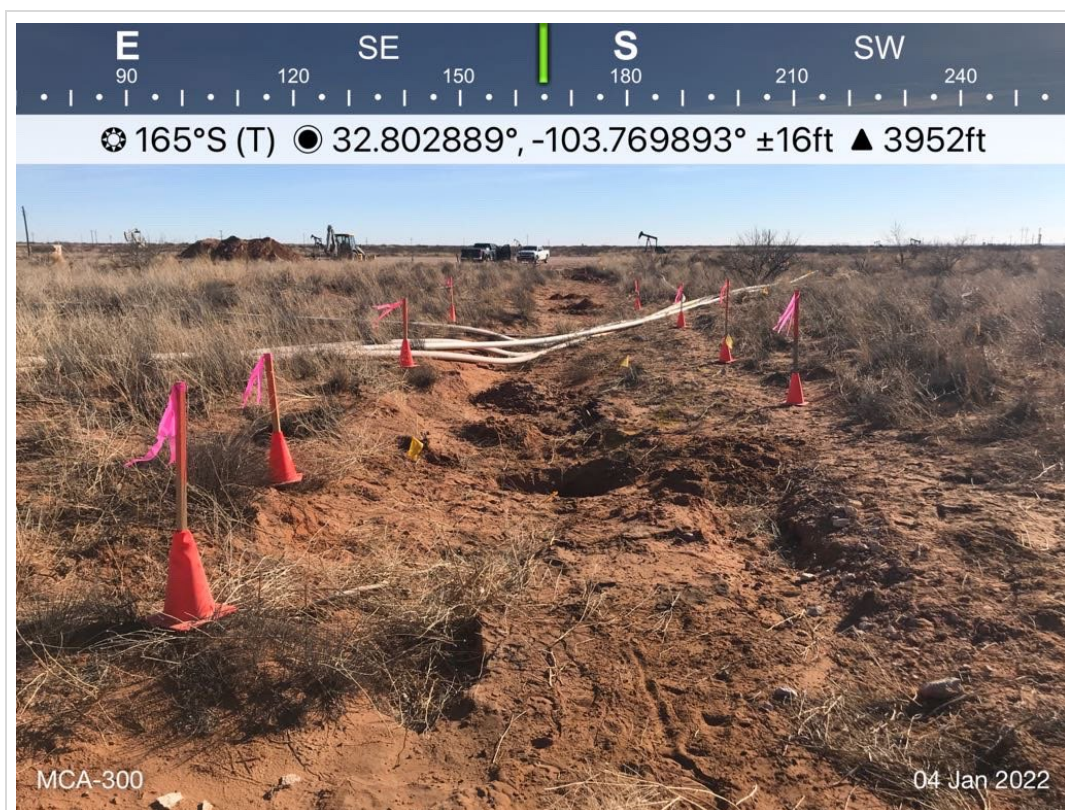
Please consider the environment before printing. [Read more](#)



TETRA TECH

APPENDIX E

Photographic Documentation



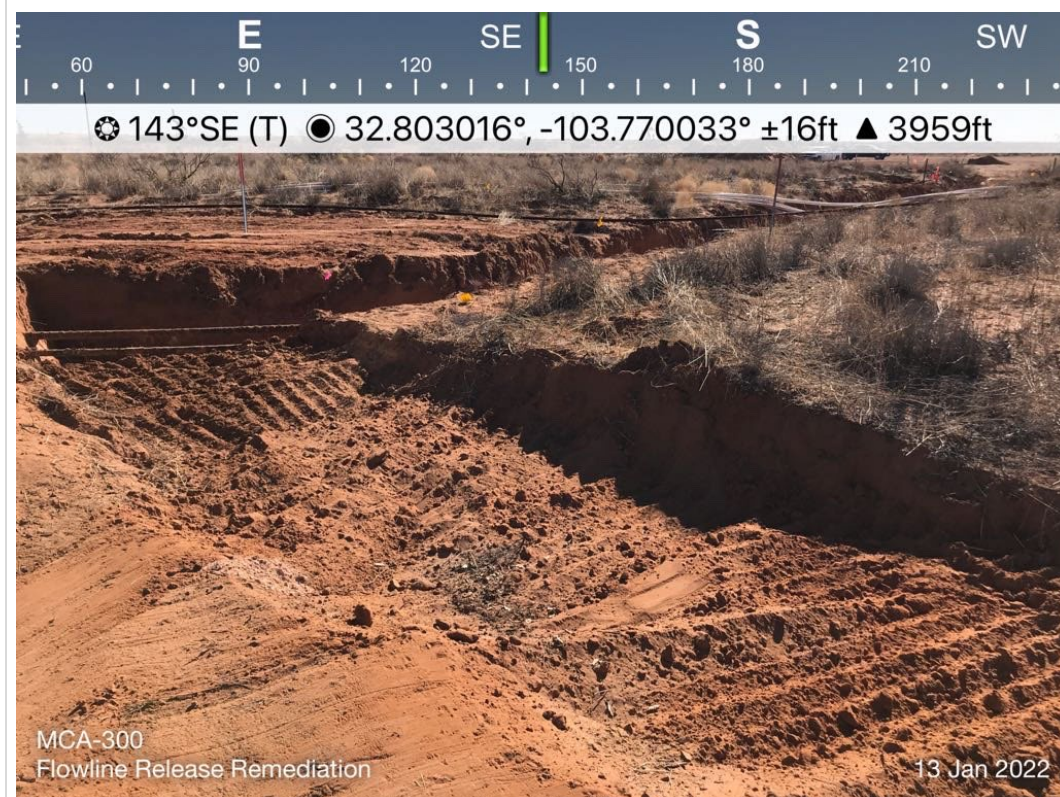
TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View south southeast. Central are of excavation, marked surface flowlines.	1
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/4/2022



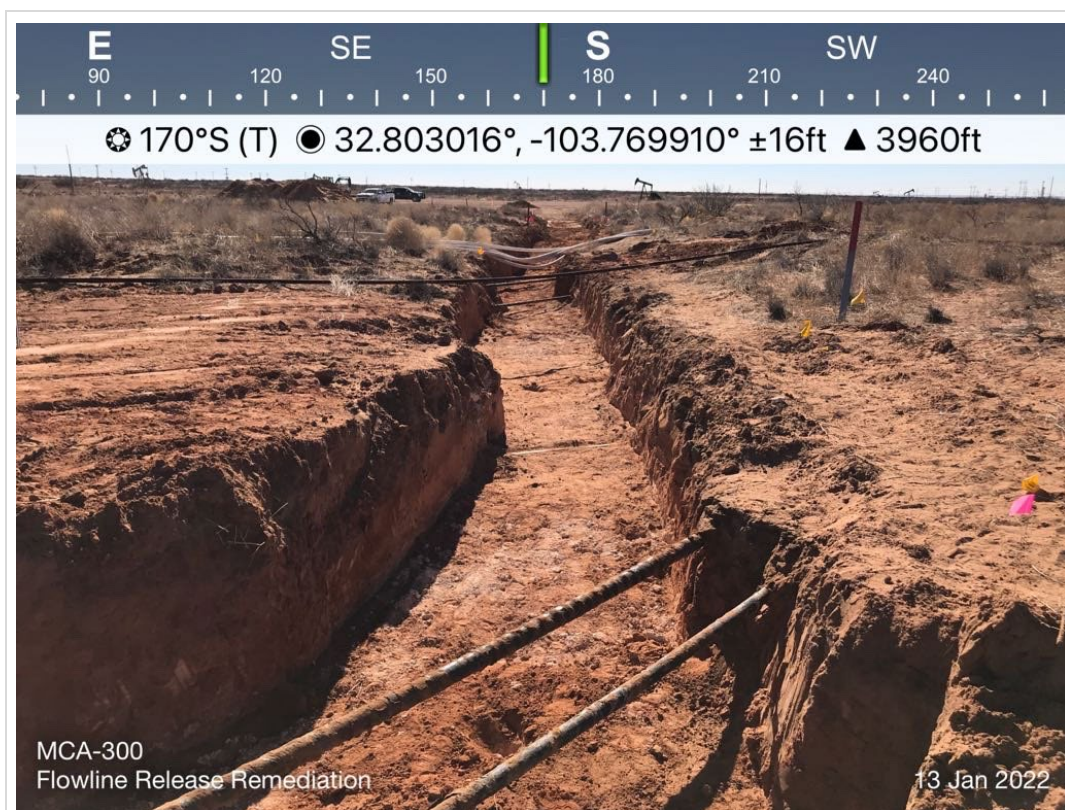
TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View north. 4-foot excavation.	2
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View south southeast. 4-foot excavation, buried steel lines, and surface flowlines.	3
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View southeast. Northern most area of remediation. 1-foot excavation, buried steel lines.	4
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View south. 4-foot excavation, buried steel lines, surface flowlines.	5
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/13/2022



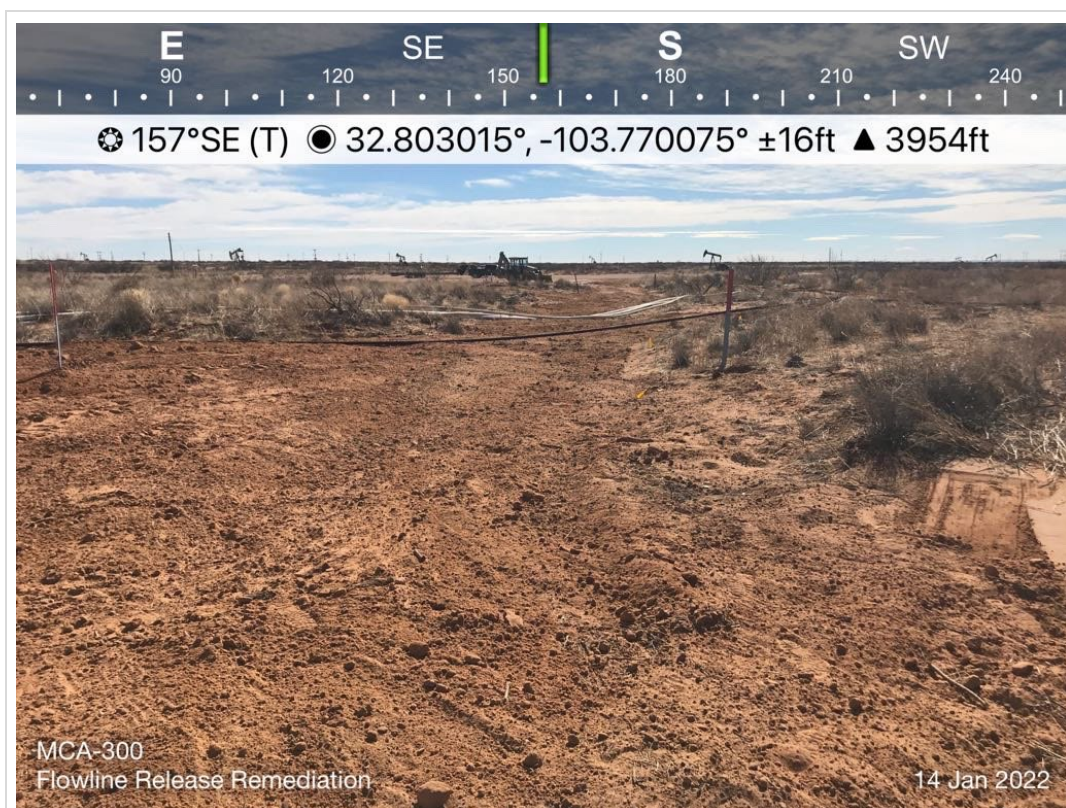
TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View south. 4-foot excavation, surface flowlines and steel lines.	6
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View south. 4-foot excavation.	7
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View north. Backfilled 4-foot excavation area.	8
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/14/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View south southeast. Backfilled and seeded 4-foot excavation area.	9
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/14/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02599	DESCRIPTION	View north. Backfilled and seeded 4-foot excavation area.	10
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	1/14/2022

APPENDIX F

Waste Manifests



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 1
Manif. Date: 1/6/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M32
Card #
Job Ref #

Ticket #: 700-1262700
Bid #: O6UJ9A000HH0
Date: 1/6/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 23984
Well Name: MCA UNIT
Well #: 300
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 02
 Manif. Date: 1/6/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1262768
 Bid #: O6UJ9A000HH0
 Date: 1/6/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984L
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 03
 Manif. Date: 1/7/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1262973
 Bid #: O6UJ9A000HH0
 Date: 1/7/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NABORS 10
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 04
 Manif. Date: 1/7/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1263041
 Bid #: O6UJ9A000HH0
 Date: 1/7/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NABORS 10
 County: LEA (NM)

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 05
 Manif. Date: 1/7/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1263076
 Bid #: O6UJ9A000HH0
 Date: 1/7/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 6
 Manif. Date: 1/10/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1263589
 Bid #: O6UJ9A000HH0
 Date: 1/10/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 07
 Manif. Date: 1/10/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1263633
 Bid #: O6UJ9A000HH0
 Date: 1/10/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 08
 Manif. Date: 1/10/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1263660
 Bid #: O6UJ9A000HH0
 Date: 1/10/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 09
Manif. Date: 1/10/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M32
Card #
Job Ref #

Ticket #: 700-1263701
Bid #: O6UJ9A000HH0
Date: 1/10/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 23984
Well Name: MCA UNIT
Well #: 300
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

- ☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 10
 Manif. Date: 1/11/2022
 Hauler: MCNABB PARTNERS
 Driver: ACIE
 Truck #: M83
 Card #
 Job Ref #

Ticket #: 700-1263991
 Bid #: O6UJ9A000HH0
 Date: 1/11/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

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

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 11
 Manif. Date: 1/11/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1263990
 Bid #: O6UJ9A000HH0
 Date: 1/11/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service**Quantity Units****Contaminated Soil (RCRA Exempt)**

16.00 yards

Generator Certification Statement of Waste Status

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Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 12
 Manif. Date: 1/11/2022
 Hauler: MCNABB PARTNERS
 Driver: ACIE
 Truck #: M83
 Card #
 Job Ref #

Ticket #: 700-1264022
 Bid #: O6UJ9A000HH0
 Date: 1/11/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
-------------------	----------------

Contaminated Soil (RCRA Exempt)	18.00 yards
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Generator Certification Statement of Waste Status

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

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Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 13
 Manif. Date: 1/11/2022
 Hauler: MCNABB PARTNERS
 Driver: HUMER
 Truck #: 32
 Card #
 Job Ref #

Ticket #: 700-1264025
 Bid #: O6UJ9A000HH0
 Date: 1/11/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984L
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 14
 Manif. Date: 1/11/2022
 Hauler: MCNABB PARTNERS
 Driver: ACIE
 Truck #: M83
 Card #
 Job Ref #

Ticket #: 700-1264094
 Bid #: O6UJ9A000HH0
 Date: 1/11/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

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

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 15
 Manif. Date: 1/12/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1264261
 Bid #: O6UJ9A000HH0
 Date: 1/12/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 16
Manif. Date: 1/12/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M32
Card #
Job Ref #

Ticket #: 700-1264304
Bid #: O6UJ9A000HH0
Date: 1/12/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 23984L
Well Name: MCA UNIT
Well #: 300
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

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

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 17
Manif. Date: 1/12/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: 32
Card #
Job Ref #

Ticket #: 700-1264344
Bid #: O6UJ9A000HHO
Date: 1/12/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 23984
Well Name: MCA UNIT
Well #: 300
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: DANIEL NEVAREZ
 AFE #:
 PO #:
 Manifest #: 18
 Manif. Date: 1/13/2022
 Hauler: MCNABB PARTNERS
 Driver: RAUL
 Truck #: M85
 Card #
 Job Ref #

Ticket #: 700-1264667
 Bid #: O6UJ9A000HH0
 Date: 1/13/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 23984L
 Well Name: MCA UNIT
 Well #: 300
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 19
Manif. Date: 1/13/2022
Hauler: MCNABB PARTNERS
Driver: DANIEL
Truck #: M85
Card #
Job Ref #

Ticket #: 700-1264718
Bid #: O6UJ9A000HH0
Date: 1/13/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 23984L
Well Name: MCA UNIT
Well #: 300
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

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

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 20
Manif. Date: 1/13/2022
Hauler: MCNABB PARTNERS
Driver: DANIEL
Truck #: M85
Card #
Job Ref #

Ticket #: 700-1264788
Bid #: O6UJ9A000HH0
Date: 1/13/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 23984L
Well Name: MCA UNIT
Well #: 300
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 80985

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 80985
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure approved.	3/9/2022