SITE INFORMATION

Report Type: Closure Request 1RP-4183

General Site Information:						
Site:	SEMU Eumont #84 Release					
Company:	ConocoPhillips					
Section, Township and Range	Unit A	Sec. 22	T 20S	R 37E		
Lease Number:	Associated API No. 30-025-20654					
County:	Lea					
GPS:	32.564469			-103.232878		
Surface Owner:	State					
Mineral Owner:	N/A					
Directions:	Depart from Hobbs (US Hwy 180/NM 18). Head south on NM18 for 7.25 miles. Turn right onto Billy Walker Rd. Head west for 6.33 miles. Continue west on dirt road for 0.74 miles. Turn left on dirt road. Head south for 2.94 miles. Site is on the right side of the road.					

Release Data:		
Date Released:	2/13/2016	
Type Release:	Produced Water	
Source of Contamination:	Transite Pipe	
Fluid Released:	5.4 bbls	
Fluids Recovered:	0 bbls	

Official Communication:			
Name:	Jenni Fortunato		Christian M. Llull
Company:	Conoco Phillips - RMR		Tetra Tech
Address:	935 N. Eldridge Pkwy.		8911 North Capital of Texas Highway
			Building 2, Suite 2310
City:	Houston, Texas 77079		Austin, Texas
Phone number:	(832) 486-2730		(512) 338-2861
Fax:			
Email:	jenni.fortunato@conocophillips.com		christian.llull@tetratech.com

Site Characterization	
Shallowest Depth to Groundwater:	*57' below surface*
Impact to groundwater or surface water:	*No*
Extents within 300 feet of a watercourse:	*No*
Extents within 200 feet of lakebed, sinkhole, or playa la	*No*
Extents within 300 feet of an occupied structure:	*No*
Extents within 500 horizontal feet of a private water wel	*No*
Extents within 1000 feet of any water well or spring:	*No*
Extents within incorporated municipal well field:	*No*
Extents within 300 feet of a wetland:	*No*
Extents overlying a subsurface mine:	*No*
Karst Potential:	*Low*
Extents within a 100-year floodplain:	*No*
Impact to areas not on a production site:	*No*

Recommended Remedial Action Levels (RRALs)				
Benzene	***Total BTEX***	***TPH (GRO+DRO)***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*1,000 mg/kg*	*2,500 mg/kg*	*10,000 mg/kg*
		NOTE:	*100 mg/kg (0-4')*	*600 mg/kg (0-4')*

TETRA TECH

June 29, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Report
ConocoPhillips
SEMU Eumont #84 Release
Unit Letter A, Section 22, Township 20 South, Range 37 East
Lea County, New Mexico
1RP-4183
Incident ID# NJXK1604825469

Sir or Madam:

ConocoPhillips is pleased to submit the following closure report in response to a release that occurred adjacent to the Southeast Monument Unit (SEMU) Eumont #84 well (API No. 30-025-20654), located in Unit Letter A, Section 22, Township 20 South, Range 37 East, Lea County, New Mexico (Site). The release Site coordinates are 32.564469°, -103.232878°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) Initial Report (Form C-141), the release occurred on February 13, 2016 (Appendix A). The release occurred when a third party crossed over an 8-inch transite pipe during the installation and trench backfilling process. The release resulted in the discharge of 5.4 barrels (bbls) of produced water to the ground surface. The release extent is presented in Figure 3. Immediate action was to shut down the job and isolate the line. No fluids were recovered. The incident was assigned the Remediation Permit (RP) 1RP-4183 and the Incident ID NJXK1604825469. The 1RP-4183 release is included in an Agreed Compliance Order-Releases (ACO-R) between ConocoPhillips and the NMOCD signed on May 7 and 9, 2019, respectively.

SITE CHARACTERIZATION

A site characterization was performed and per 19.15.29.12 NMAC, 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 and the Site is in a low karst potential area. The Site is within a New Mexico oil and gas production area.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 800 meters (approximately ½ mile) of the Site. The search radius was expanded and based on available data from four (4) water wells located within 2,500 meters (approximately 1.55 miles) of the Site, average depth to groundwater is 55 feet below ground surface (bgs). The site characterization data is included in Appendix B.

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REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the 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 (GRO+DRO+ORO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 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 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin remediation of the impacted area in February 2017. The general footprint of the release extending from east of the release point over to the northwest edge was excavated to approximately two to three feet bgs (Figure 4). Impacted soil was disposed of in a permitted landfill facility. The far eastern portion of this excavated area was later backfilled for utility and pipeline access in 2017, as shown in Figure 4. A soil stockpile was brought in to final backfill the excavation, however, the excavated area was never fully backfilled.

SITE ASSESSMENTS AND SAMPLING RESULTS

On March 28, 2018, Tetra Tech personnel were onsite to install soil borings to evaluate and delineate the vertical extent of contamination in the release area. As mentioned, the release area footprint had been previously excavated to a depth of approximately 3 feet bgs. A total of two (2) soil borings (BH-1 and BH-2) were completed to 3 feet bgs inside the release area footprint. A third soil boring was going to be completed on the east side, however, an air bridge completed over the excavation and backfill rendered this area inaccessible. Soil samples were collected, and field screened with a photoionization detector (PID) and for chlorides using an EC400 ExStik. Samples were placed into laboratory provided sample containers, transferred under chain of custody, and analyzed within appropriate holding times. Selected soil samples from each boring were analyzed for TPH by method 8015B modified, BTEX by Method 8260 and chloride by EPA method 300.0. The results of the initial sampling events in March 2018 are summarized in Table 1. The sample locations are shown on Figure 4. The analytical results associated with BH-1 (2018) and BH-2 (2018) were below RRALs for BTEX, TPH and chloride.

In order to more fully characterize and delineate the horizontal and vertical extents of the release area, Tetra Tech personnel conducted an additional assessment on November 14, 2019. A total of four (4) soil borings were installed, one within the excavated release area (BH-4) and three around the perimeter of the release area (BH-1, BH-2 and BH-3) (Figure 4). Borings BH-1 and BH-3 were advanced to 35 feet bgs. Boring BH-2 was advanced to 20 feet bgs, and BH-4 was advanced to 10 feet bgs. All samples were field

screened for organic vapors with a PID and for chlorides using an ExStik. Samples were placed into laboratory provided sample containers, transferred under chain of custody, and analyzed within appropriate holding times by Pace Analytical (Pace). Selected samples were analyzed for TPH via EPA Method 8015B modified, BTEX via EPA Method 8260B and chloride via EPA Method 300.0. The results of the additional assessment event in November 2019 are summarized in Table 2. The sample locations are shown in Figure 4. The analytical results associated with borings BH-1 through BH-4 were below RRALs for TPH, BTEX and chloride.

Additionally, as part of the November 2019 soil assessment, Tetra Tech personnel collected two confirmation sidewall samples (SW-1 and SW-2) along the eastern sidewall of the existing excavation and one sample of the soil stockpile north of the release area (Stockpile-1). These samples were submitted to the analytical laboratory along with other samples associated with the November 2019 soil assessment. The results of the sidewall confirmation sampling in November 2019 are also summarized in Table 2. The confirmation sample locations are shown in Figure 5. The analytical results associated with confirmation sidewall samples SW-1 and SW-2 were below RRALs for TPH, BTEX and chloride.

After reviewing the analytical results of the combined assessments at the Site, the release was considered vertically and horizontally delineated according to the closure criteria listed in 19.15.29 NMAC Table I. After review of the analytical data from the confirmation sampling events, ConocoPhillips decided to collect additional sidewall samples to verify that the impacted materials were properly removed and determine if the existing excavation could be backfilled with no further expansion.

On January 28, 2020, Tetra Tech personnel were onsite to collect additional confirmation samples from the sidewalls and at bottom of the excavation. Eight (8) confirmation sidewall samples (SW-3 through SW-10) and four (4) confirmation floor samples (FS-1 through FS-4) were collected. Samples were placed into laboratory provided sample containers, transferred under chain of custody, and analyzed within appropriate holding times by Pace. Selected samples were analyzed for TPH via EPA Method 8015B modified, BTEX via EPA Method 8260B and chloride via EPA Method 300.0. The confirmation sampling locations are shown in Figure 5.

The results of the sidewall confirmation sampling in January 2020 are summarized in Table 3. All confirmation soil samples (floor and sidewall) were below the RRALs for BTEX, TPH and chloride, except for sidewall samples SW-3 and SW-6 and floor sample FS-2. The analytical results associated with sidewall samples SW-3 and SW-6 were above the RRAL for TPH in the top four feet (100 mg/kg). The analytical results associated with floor sample FS-2 was above the RRAL for TPH in the top four feet (100 mg/kg) with a total TPH concentration of 180.8 mg/kg.

REMEDIATION 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 May 7, 2020 with fee application payment PO Number 5DH13-200507-C-1410. 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 Bradford Billings on Thursday, February 18, 2021.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

From April 27, 2021 through May 5, 2021, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. 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 seven (7) floor sample locations and eleven (11) 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”-#. Selected areas required additional excavation to collect a representative sample that was below the respective RRALs for that location. As the analytical results associated with these sample locations exceeded the respective RRAL, additional excavation was conducted at those locations until field screening results indicated closure criteria were attained.

Iterative confirmation samples were located to encompass the original sample locations that triggered removal (nomenclature defined in Table 4) post-additional excavation. If the sidewall area was expanded due to unacceptable confirmation sample results, the parentheses indicate the expansion iteration. For floor samples, the parentheses indicate the excavation floor depth from which the sample was collected. Excavated areas, depths and confirmation sample locations are shown in Figure 6.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Pace. 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 8021B, and chlorides by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Per the NMOCD-approved Work Plan, the western portion of the release extent was excavated to 2 additional feet below existing grade (for a total of 4 feet below surrounding grade). The eastern portion of the release extent was also excavated to 2 additional feet below existing grade and the eastern sidewall was expanded 6 feet to the east into the previously backfilled area. Due to the various excavation expansions, areas containing many of the original confirmation sidewall sample locations were removed. In these areas, additional confirmation floor samples were collected in accordance with the approved Alternative Confirmation Sampling Plan. After iterative confirmation sampling at the floor sample and sidewall sample locations, all final confirmation soil samples (floor and sidewall) were below the respective RRALs for chloride, BTEX, and TPH. The results of the April-May 2021 confirmation sampling events are summarized in Table 4.

All the excavated material was transported offsite for proper disposal. Approximately 178 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 D. 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 E.

As prescribed in the Work Plan, the backfilled areas were seeded in May 2021 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 was 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 this release based on the confirmation sampling results and remediation activities performed. The SEMU Eumont #84 Release (1RP-4183) is included in an Agreed Compliance Order-Releases (ACO-R) between ConocoPhillips and the NMOCD signed on May 7 and 9, 2019, respectively. 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) 338-2861 or Greg at (432) 682-4559.

Sincerely,
Tetra Tech, Inc.

Christian M. Llull, P.G.
Project Manager

Greg W. Pope, P.G.
Program Manager

cc:
Ms. Jenni Fortunato, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

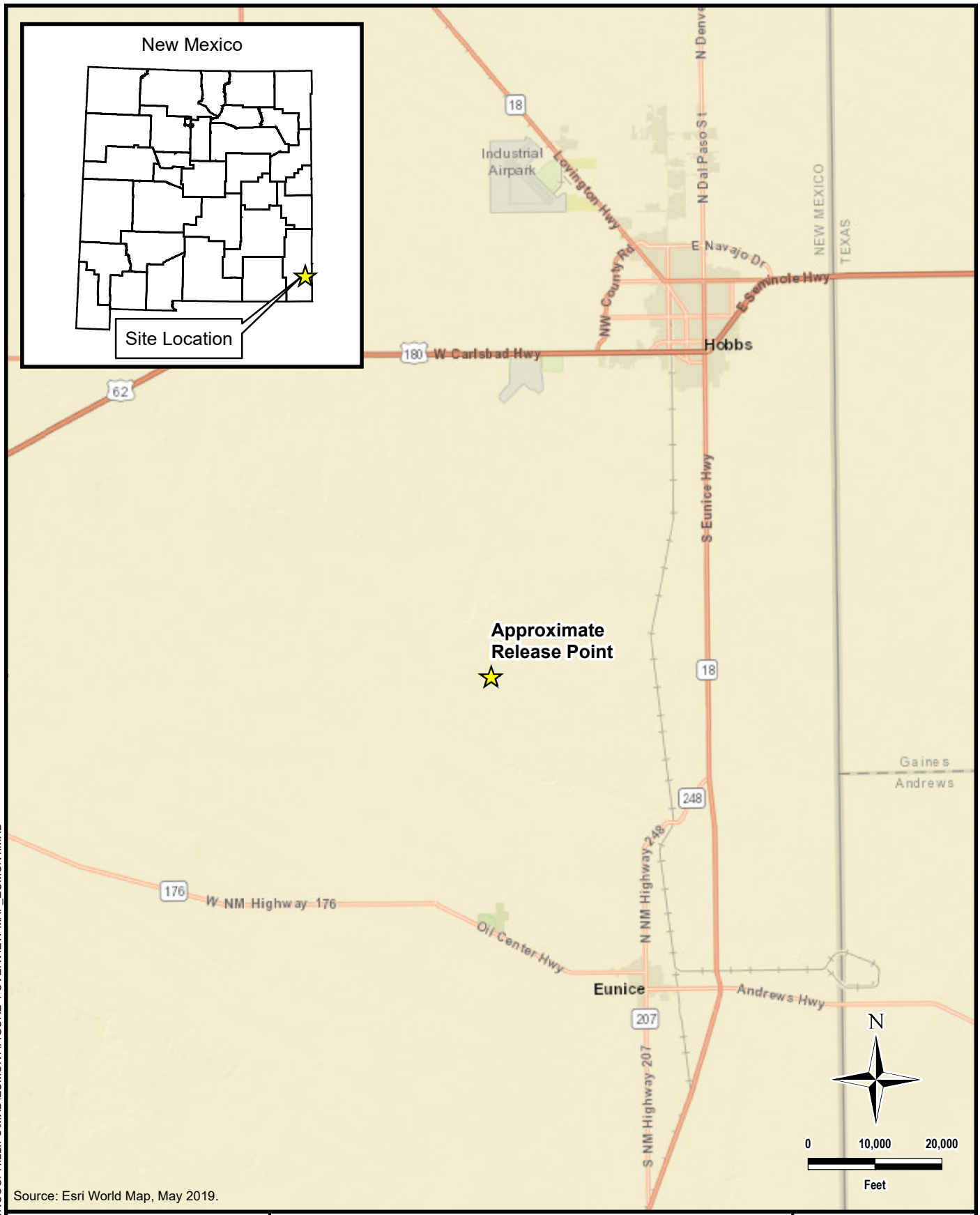
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EUMONT\FIGURE 1 OVERVIEW MAP_EUMONT.MXD

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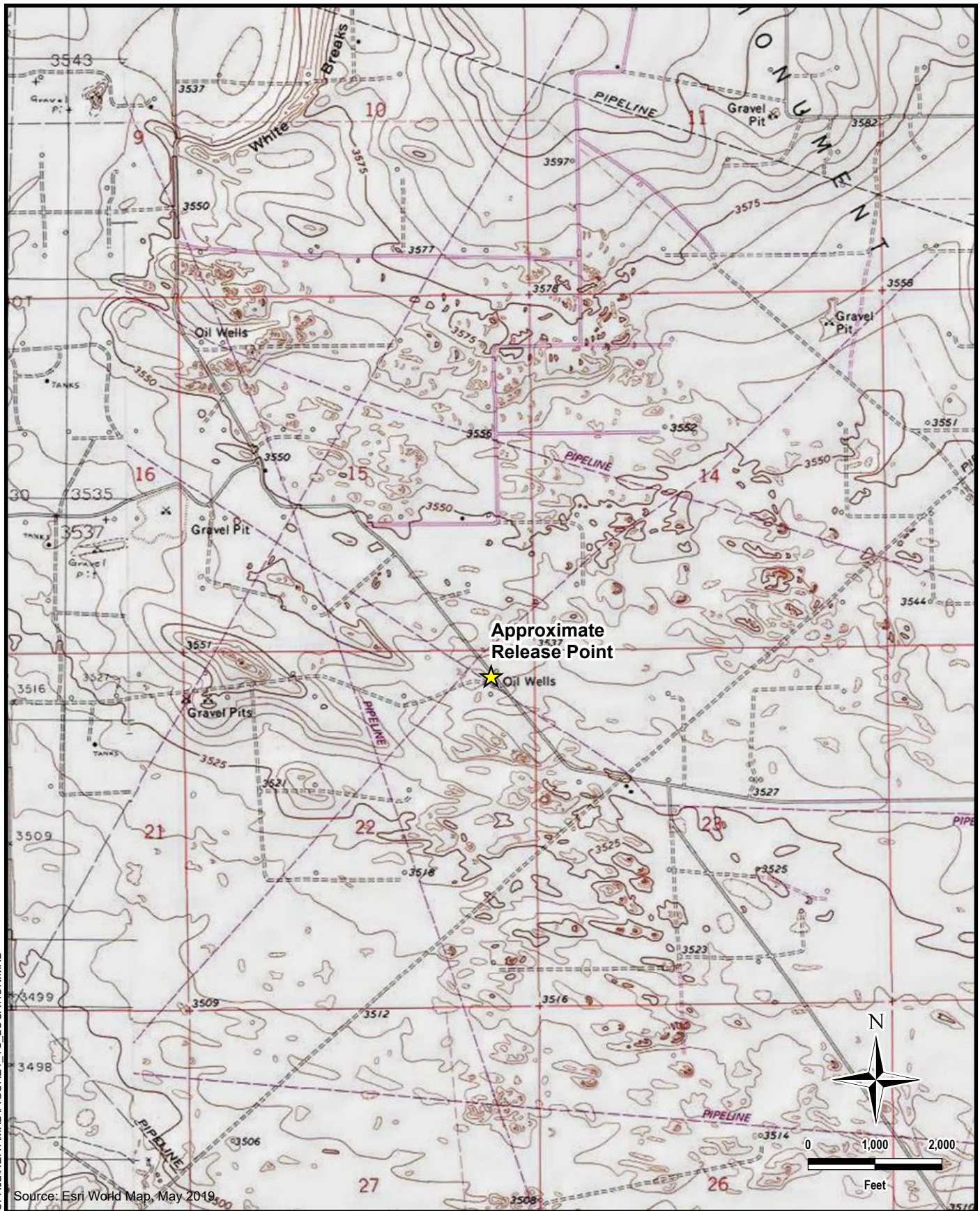
CONOCOPHILLIPS

1RP-4183
(32.564469°, -103.232878°)
LEA COUNTY, NEW MEXICO

SEMU EUMONT #84 RELEASE
OVERVIEW MAP

PROJECT NO.:	212C-MD-01991
DATE:	APRIL 30, 2020
DESIGNED BY:	AAM

Figure No.
1



\\TTS134FS1\SUP-GIS\ARCPRJ2\NERT\MXD\FIGURE1_TS_LOCATION.MXD

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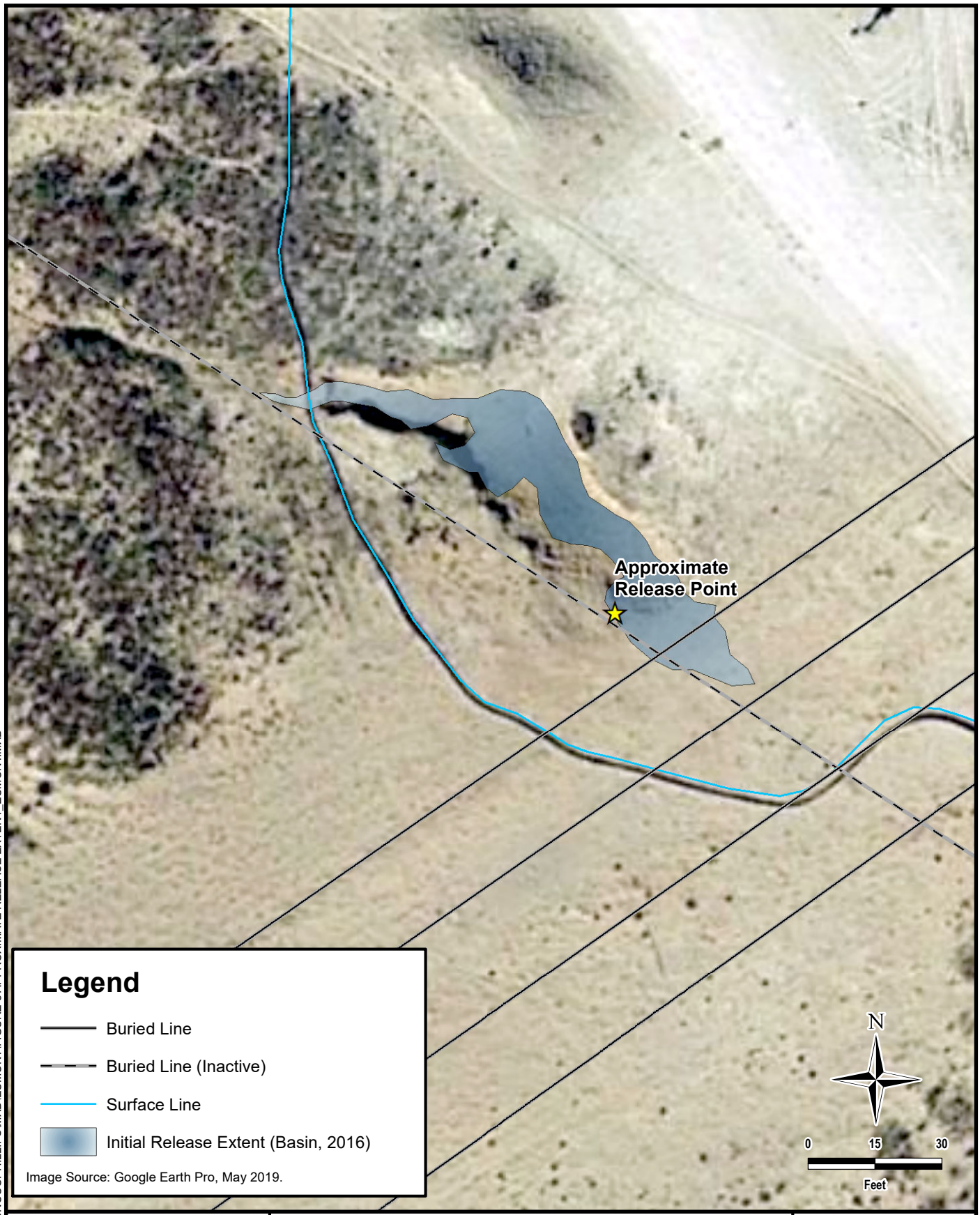
CONOCOPHILLIPS

1RP-4183
(32.564469°, -103.232878°)
LEA COUNTY, NEW MEXICO

SEMU EUMONT #84 RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-01991
DATE:	APRIL 20, 2020
DESIGNED BY:	AAM

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EUMONT\FIGURE 3 APPROXIMATE RELEASE EXTENT_EUMONT.MXD

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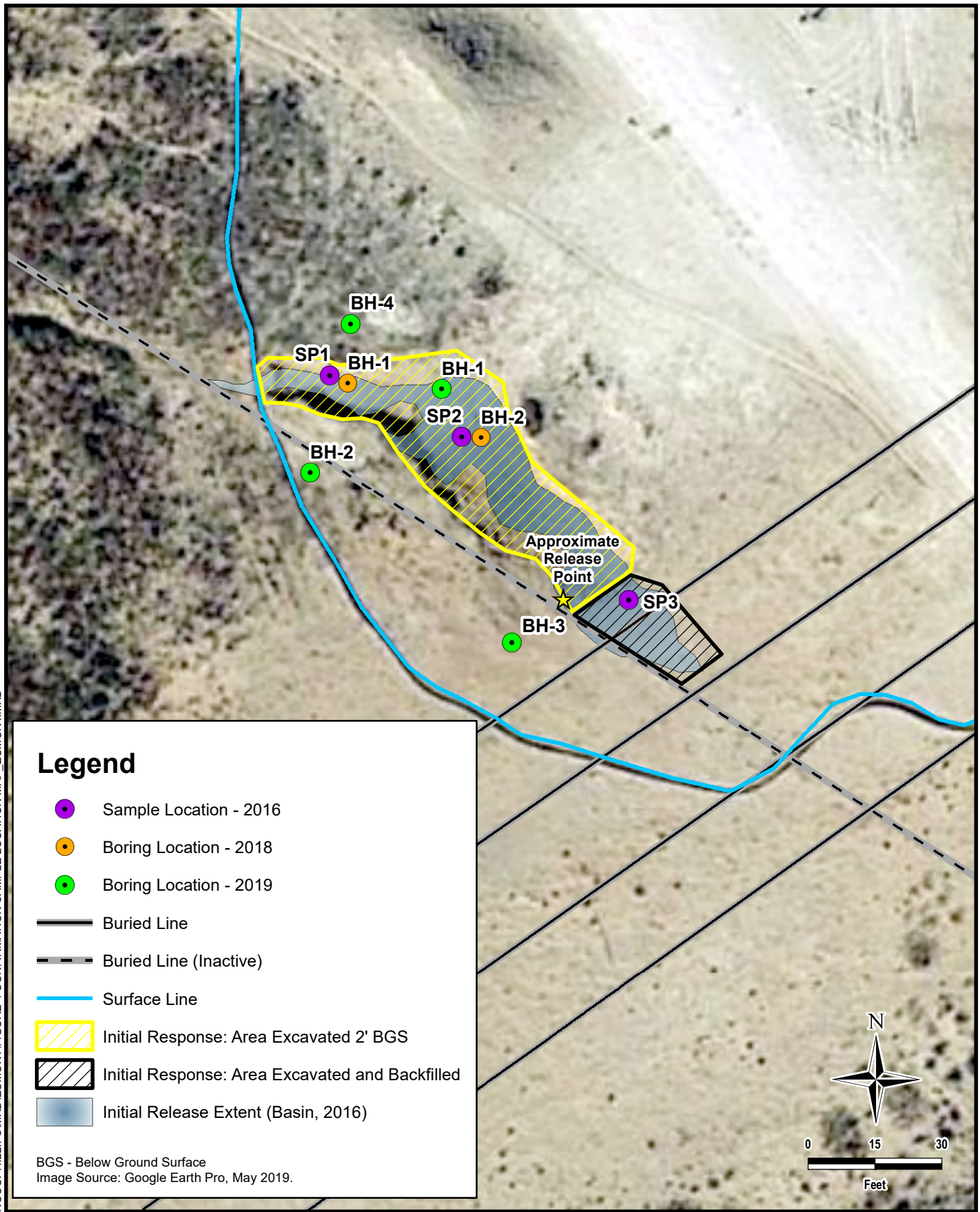
1RP-4183
(32.564469°, -103.232878°)
LEA COUNTY, NEW MEXICO

SEMU EUMONT #84 RELEASE
APPROXIMATE RELEASE EXTENT

PROJECT NO.:	212C-MD-01991
DATE:	APRIL 30, 2020
DESIGNED BY:	AAM

Figure No.
3



Legend

- Sample Location - 2016
- Boring Location - 2018
- Boring Location - 2019
- Buried Line
- Buried Line (Inactive)
- Surface Line
- Initial Response: Area Excavated 2' BGS
- Initial Response: Area Excavated and Backfilled
- Initial Release Extent (Basin, 2016)

BGS - Below Ground Surface
Image Source: Google Earth Pro, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EUMONT\FIGURE 4 CONFIRMATION SAMPLE LOCATION MAP_EUMONT.MXD

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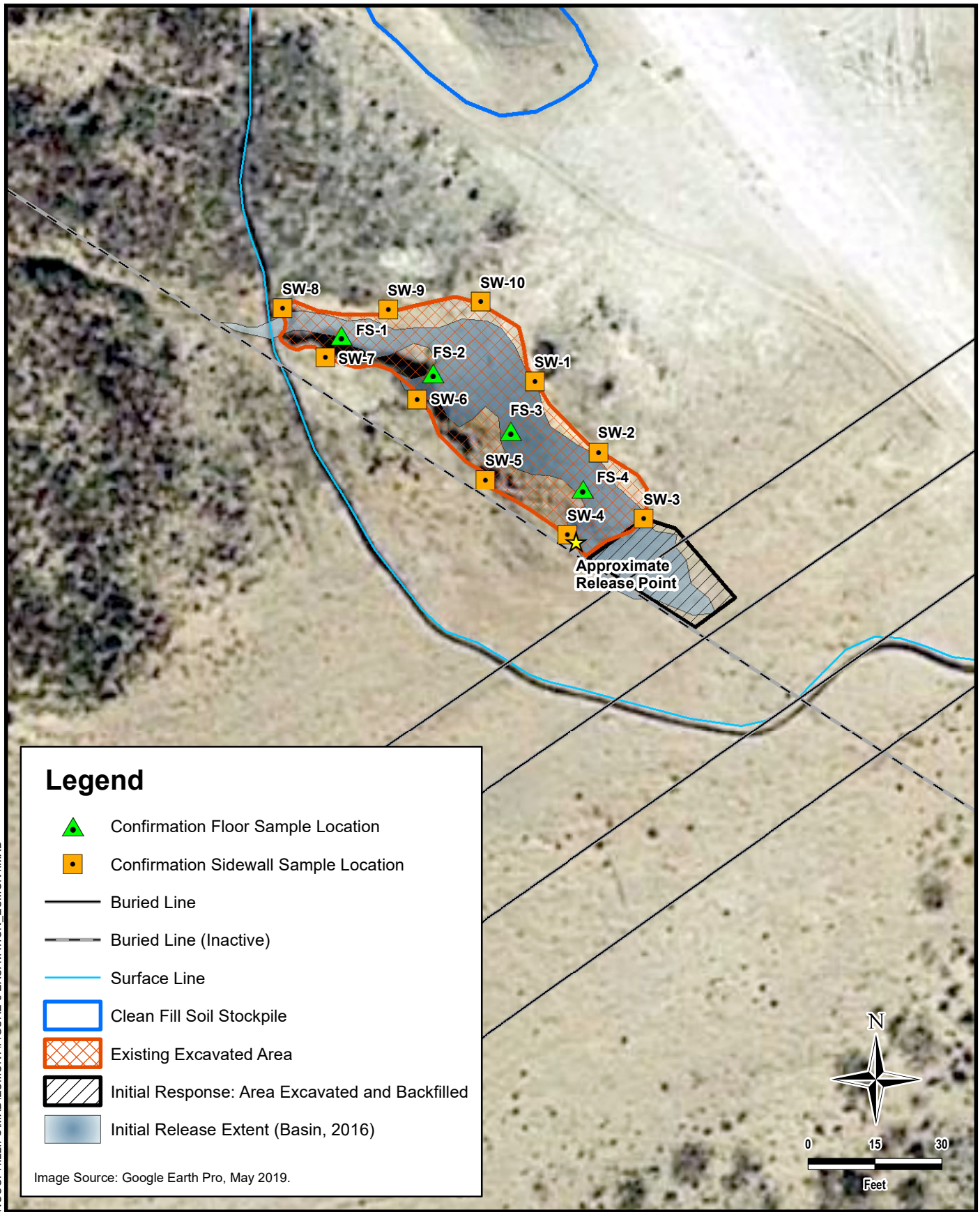
(32.564469°, -103.232878°)
LEA COUNTY, NEW MEXICO

SEMU EUMONT #84 RELEASE
INITIAL RESPONSE ACTIONS AND RELEASE ASSESSMENT MAP

PROJECT NO.:	212C-MD-01991
DATE:	APRIL 30, 2020
DESIGNED BY:	AAM

Figure No.
4



Legend

- Confirmation Floor Sample Location
- Confirmation Sidewall Sample Location
- Buried Line
- Buried Line (Inactive)
- Surface Line
- Clean Fill Soil Stockpile
- Existing Excavated Area
- Initial Response: Area Excavated and Backfilled
- Initial Release Extent (Basin, 2016)

Image Source: Google Earth Pro, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EUMONT\FIGURE 5 EXCAVATION_EUMONT.MXD

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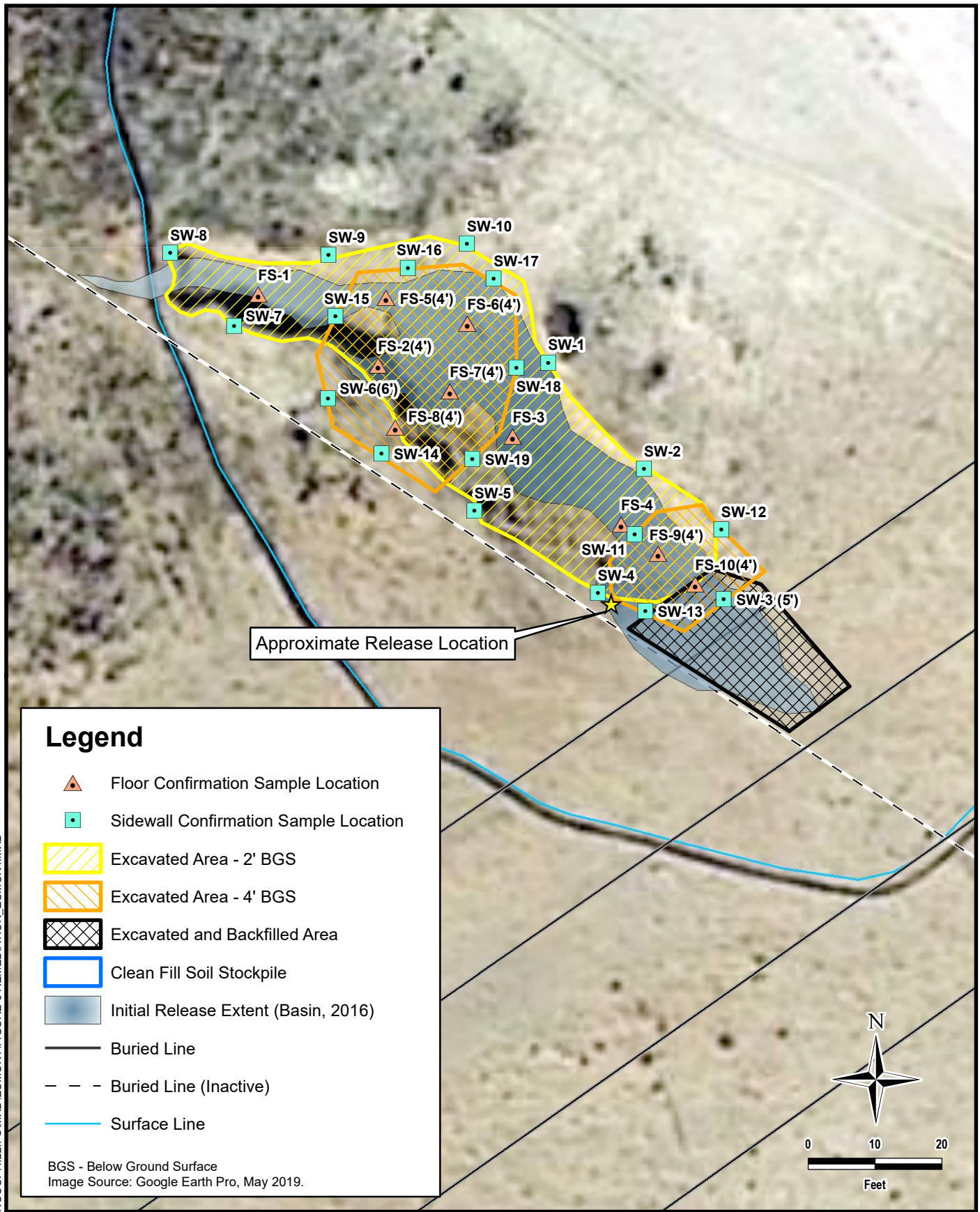
LEA COUNTY, NEW MEXICO

SEMU EUMONT #84 RELEASE
CONFIRMATION SAMPLING LOCATIONS

PROJECT NO.:	212C-MD-01991
DATE:	APRIL 30, 2020
DESIGNED BY:	AAM

Figure No.
5



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EUMONT\FIGURE 6 REMEDIATION_EUMONT.MXD

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SEMU EUMONT #84 RELEASE
ADDITIONAL REMEDIATION EXTENT AND SAMPLING LOCATIONS

PROJECT NO.:	212C-MD-02480
DATE:	MAY 19, 2021
DESIGNED BY:	AAM

Figure No.
6

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT
SEMU EUMONT #84 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
							Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO (C_3 - C_{10})[4]		DRO (C_{10} - C_{28})		ORO (C_{28} - C_{40})		TPH (C_3 - C_{40})	
		ft bgs	Chloride	PID																				
			ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
BH-1	03/28/18	0-1	70.1	0.2	81.7		< 0.00157		< 0.00302		< 0.00156		< 0.00578		--		< 0.0262		2.14	J	4.86		7.00	
		1-2	86.3	0.2	81.1		< 0.00160		< 0.00326		< 0.00159		< 0.00588		--		< 0.0267		< 1.98		1.1	J	1.1	
		2-3	120.0	0.4	181		< 0.00161		< 0.00329		< 0.00160		< 0.00594		--		< 0.0269		< 2.00		< 0.340		--	
BH-2	03/28/18	0-1	310.0	0.2	126		< 0.00139		< 0.00283		< 0.00138		< 0.00510		--		< 0.0232		< 1.72		< 0.292		--	
		1-2	79.6	0.3	146		< 0.00164		< 0.00333		< 0.00162		< 0.00601		--		< 0.0273		< 2.03		< 0.345		--	
		2-3	289	0.4	270		< 0.00142		< 0.00289		< 0.00141		< 0.00521		--		< 0.0237		28.4		13.00		41.40	

NOTES:

ft	Feet	***Bold and italicized values indicate exceedance of RRALS.***	
bgs	Below ground surface	1	Method 300.0
ppm	Parts per million	2	Method 8260B
mg/kg	Milligrams per kilogram	3	Method 8015
NM	Not measured	4	Method 8015D/GRO
HOLD	Hold on sample analysis	B	The same analyte is found in the associated blank.
TPH	Total Petroleum Hydrocarbons	J	The identification of the analyte is acceptable; the reported value is an estimate.
GRO	Gasoline range organics	T8	Sample(s) received past/too close to holding time expiration.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL ASSESSMENT
SEMU EUMONT #84 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
							Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO (C_3 - C_{10})[4]		DRO (C_{10} - C_{28})		ORO (C_{28} - C_{40})		TPH (C_3 - C_{40})	
		ft bgs	Chloride	PID																				
			ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
BH -1	11/14/19	0-1	--	0.8	33.7		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0498	B J	3.78	J	8.75		12.5798	
		2-3	--	1.1	53.1		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0501	B J	3.25	J	7.66		10.9601	
		4-5	137	1.1	25.9	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0985	J	< 4.00		4.44		4.54	
		6-7	--	1.2	5.7	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0423	J	< 4.00		1.3	J	1.3423	
BH-2	11/14/19	0-1	--	0.9	3.96	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0372	J	< 4.00		2.07	J	2.1072	
		2-3	42.3	1.0	3.78	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0378	J	< 4.00		0.711	J	0.7488	
		4-5	--	1.2	6.29	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0376	J	< 4.00		0.675	J	0.71	
		6-7	291	1.1	32.0	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0248	B J	< 4.00		4.8		4.8248	
BH-3	11/14/19	0-1	128	1.1	13.9	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0492	B J	7.59		19.9		27.5392	
		2-3	--	1.2	5.12	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0301	B J	< 4.00		1.42	J	1.4501	
		4-5	321	1.1	13.8	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0288	B J	< 4.00		0.642	J	0.6708	
		6-7	--	0.5	11.4	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0261	B J	< 4.00		0.892	J	0.9181	
		9-10	167	0.9	27.8	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0262	B J	< 4.00		< 4.00		0.0262	
		14-15	935	1.2	356		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0375	B J	< 4.00		< 4.00		0.0375	
		19-20	843	0.8	463		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.038	B J	< 4.00		< 4.00		0.038	
		24-25	--	0.9	434		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0248	B J	< 4.00		1.13	J	1.1548	
		29-30	742	1.1	511		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		< 0.100		< 4.00		< 4.00		--	
		34-35	544	1.2	409		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.028	B J	1.99	J	2.99	J	5.008	
BH-4	11/14/19	0-1	43.1	0.6	54.9		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		< 0.100		10.9		39.4		50.30	
		2-3	--	0.9	6.48	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		< 0.100		3.32	J	16.2		19.52	
		4-5	68.9	0.8	5.58	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		< 0.100		< 4.00		2.10	J	2.10	
		6-7	--	1.1	7.98	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0253	B J	< 4.00		1.31	J	1.3353	
SW-1	11/14/19	-	0.9	29.6	35.1	B	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0236	B J	< 4.00		0.694	J	0.7176	
SW-2	11/14/19	-	0.8	421	91		< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.036	J	< 4.00		0.986	J	1.022	
Stockpile-1	11/14/19	-	--	--	3.13	B J	< 0.00100		< 0.00500		< 0.00250		< 0.00650		--		0.0338	J	< 4.00		4.64		4.67	

NOTES:

ft	Feet	***Bold and italicized values indicate exceedance of RRALS.***	
bgs	Below ground surface	1	Method 300.0
ppm	Parts per million	2	Method 8260B
mg/kg	Milligrams per kilogram	3	Method 8015
NM	Not measured	4	Method 8015D/GRO
HOLD	Hold on sample analysis	B	The same analyte is found in the associated blank.
TPH	Total Petroleum Hydrocarbons	J	The identification of the analyte is acceptable; the reported value is an estimate.
GRO	Gasoline range organics	T8	Sample(s) received past/too close to holding time expiration.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
INITIAL CONFIRMATION SAMPLING
SEMU EUMONT #84 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Field Screening Results	Chloride[1]		BTEX[2]									TPH[3]						
					Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO (C_3 - C_{10})[4]		DRO (C_{10} - C_{28})		ORO (C_{28} - C_{40})		TPH (C_3 - C_{40})
		Chloride																		
		ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
SW-3	01/28/20	125	16.5		0.000283	J	< 0.000155		<0.000114		< 0.000476		0.000283	0.0815	B J	55.7		185		**240.8**
SW-4	01/28/20	88.7	13.6	B	0.000707		< 0.000150		<0.000110		< 0.000461		0.000707	0.0776	B J	20.6		65.3		86.0
SW-5	01/28/20	301	4.64	B J	< 0.000123		< 0.000154		< 0.000113		< 0.000471		--	0.0814	B J	< 1.65		3.95	J	4.03
SW-6	01/28/20	325.0	133		< 0.000120		<0.000151		< 0.000110		< 0.000462		--	0.0576	B J	190		397		**587.1**
SW-7	01/28/20	445	0.977	B J	< 0.000126		< 0.000157		< 0.000115		< 0.000483		--	0.0800	B J	4.27		15.50		19.9
SW-8	01/28/20	530	103	B	< 0.000122		< 0.000153		< 0.000112		< 0.000469		--	0.0637	B J	< 1.64		1.6	J	1.7
SW-9	01/28/20	455	19.8		< 0.000123		< 0.000154		< 0.000113		< 0.000471		--	0.0637	B J	< 1.65		3.24	J	3.3
SW-10	01/28/20	85.4	1.12	B J	< 0.000127		< 0.000159		< 0.000117		< 0.000488		--	0.064	B J	11.3		34		45.4
FS-1	01/28/20	319	3.53	B J	< 0.000125		< 0.000156		< 0.000114		< 0.000477		--	0.0426	B J	6.02		21.3		27.4
FS-2	01/28/20	201	15.1	B	< 0.000121		< 0.000152		< 0.000111		< 0.000466		--	0.0539	B J	46.7		134		**180.8**
FS-3	01/28/20	216	12.9	B	< 0.000122		< 0.000152		< 0.000112		< 0.000467		--	0.0563	B J	19.7	J	49.3		69.1
FS-4	01/28/20	256	2.51	B J	< 0.000125		< 0.000157		< 0.000115		< 0.000480		--	0.0617	J	4.66		14.8		19.5

NOTES:

Shaded rows indicate depth intervals proposed for excavation and remediation.

Bold and italicized values indicate exceedance of RRALS.

ft	Feet
bgs	Below ground surface
ppm	Parts per million
mg/kg	Milligrams per kilogram
NM	Not measured
HOLD	Hold on sample analysis
TPH	Total Petroleum Hydrocarbons
GRO	Gasoline range organics
DRO	Diesel range organics
ORO	Oil range organics

1	Method 300.0
2	Method 8260B
3	Method 8015
4	Method 8015D/GRO
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL CONFIRMATION SAMPLING - 1RP-4183
CONOCOPHILLIPS
SEMU EUMONT #84 REMEDIATION
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]								TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO[4] C_3 - C_{10}		DRO C_{10} - C_{28}		ORO C_{28} - C_{40}		Total TPH (GRO+DRO+ORO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
FS-2 (4')	4/28/2021	4	< 20.2		< 0.00102		< 0.00508		< 0.00254		< 0.00661		-	< 0.101		< 4.03		1.21	B J	1.21
FS-5 (4')	4/28/2021	4	< 20.2		< 0.00102		< 0.00511		< 0.00255		0.00126	B J	0.00126	< 0.101		< 4.04		0.433	B J	0.433
FS-6 (4')	4/28/2021	4	< 20.3		< 0.00103		< 0.00517		< 0.00258		0.000982	B J	0.000982	< 0.102		< 4.07		0.418	B J	0.418
FS-7 (4')	4/28/2021	4	13.7	J	< 0.00102		< 0.00510		< 0.00255		0.000944	B J	0.000944	< 0.101		< 4.04		5.53		5.53
FS-8 (4')	4/28/2021	4	138		< 0.00104		< 0.00519		< 0.00260		< 0.00675		-	< 0.102		< 4.08		0.646	J	0.646
FS-9 (4')	4/28/2021	4	< 20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00692		-	< 0.103		< 4.13		6.26		6.26
FS-10 (4')	4/28/2021	4	214		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-	< 0.102		< 4.06		< 4.06		-
SW-3 (4')	4/28/2021	-	103		0.000772	J	0.0118		0.00649		0.0324		0.0515	0.0512	J	19.0		103		***122***
SW-3 (5')*	5/4/2021	-	16.1		< 0.00109		0.00552	B	0.000925	J	0.00377	J	0.0113	0.0654	J	5.55		29.3		35
SW-6 (6')	4/28/2021	-	54.8		< 0.00102		0.00340	J	0.00148	J	0.00821	B	0.0131	< 0.101		< 4.04		1.66	B J	1.66
SW-11	4/28/2021	-	17.6	J	< 0.00108		0.00168	J	0.000840	J	0.00434	B J	0.00686	< 0.104		5.22		25.1		30.3
SW-12	4/28/2021	-	16.2	J	< 0.00110		< 0.00552		< 0.00276		0.00232	B J	0.00232	< 0.105		5.02		27.7		32.7
SW-13	4/28/2021	-	< 20.2		< 0.00102		< 0.00508		< 0.00254		0.00222	B J	0.00222	< 0.101		4.44		25.5		29.9
SW-14	4/28/2021	-	< 20.1		< 0.00101		< 0.00506		< 0.00253		0.00137	B J	0.00137	< 0.101		< 4.02		1.30	B J	1.30
SW-15	4/28/2021	-	< 21.1		< 0.00111		< 0.00554		< 0.00277		0.00194	B J	0.00194	< 0.105		17.2		63.8		81.0
SW-16	4/28/2021	-	28.1		< 0.00110		< 0.00548		< 0.00274		0.00128	B J	0.00128	0.0270	J	1.79	J	9.05		10.9
SW-17	4/28/2021	-	< 20.3		< 0.00103		< 0.00514		< 0.00257		0.00127	B J	0.00127	< 0.101		1.64	J	8.61		10.3
SW-18	4/28/2021	-	< 20.2		< 0.00102		< 0.00510		< 0.00255		0.00136	B J	0.00136	< 0.101		< 4.04		2.90	B J	2.90
SW-19	4/28/2021	-	< 20.4		< 0.00104		< 0.00518		< 0.00259		0.00109	B J	0.00109	< 0.102		< 4.07		0.443	B J	0.443

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

ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

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 ().

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.

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

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

Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **ConocoPhillips**	Contact: **Jose A Zepeda**
Address: **1410 N West County Road**	Telephone No. **575-391-3165**
Facility Name: **SEMU Eumont #84**	Facility Type: **Well**

Surface Owner: State	Mineral Owner: N/A	API No. 3002520654

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	22	20S	37E					**Lea**

Latitude _____ **Longitude**_____

NATURE OF RELEASE

Type of Release: **Produce Water**	Volume of Release: 5.4	Volume Recovered: 0
Source of Release: **transite pipe**	Date and Hour of Occurrence **02/13/16 0800**	Date and Hour of Discovery **SAME**
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? **Jamie Keyes**	
By Whom? **Jose A Zepeda**	Date and Hour: **02/16/2017 1520 hrs**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.* On February 13, 2016 at 0800 MST at SEMU Eumont 84, a leak occurred when a third party crossed over a 8 inch transite pipe during the backfill process resulting in a release of 5.4 bbls of produced water with none recovered. Immediate action was to shut down job and isolate the line. Spill site will be remediated in according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: JOSE A ZEPEDA

Printed Name: Jose A Zepeda

Title: LEAD HSE

E-mail Address: ***Jose. A. Zepeda@conocophillips.com***

Date: 02/16/16 Phone:575-391-3158

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Jamie Keyes

Approval Date: 02/17/2016 Expiration Date: 04/17/2016

Conditions of Approval:
Discrete site samples only. Delineate and remediate per NMOCD guidelines.

Attached ☐
1RP 4183

* Attach Additional Sheets If Necessary

nJXK1604825469
pJXK1604825576

Incident ID	nJXK1604825469
District RP	1RP-4183
Facility ID	
Application ID	pJXK1604825576

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nJXK1604825469
District RP	1RP-4183
Facility ID	
Application ID	pJXK1604825576

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: Marvin Soriwei Title: Program Manager, Risk MGMT & Remediation

Signature: Date: 5/7/2020

email: marvin.soriwei@conocophillips.com Telephone: 832-486-2730

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nJXK1604825469
District RP	1RP-4183
Facility ID	
Application ID	pJXK1604825576

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: Marvin Soriwei Title: Program Manager, Risk MGMT & Remediation

Signature: Marvin Soriwei Date: 5/7/2020

email: marvin.soriwei@conocophillips.com Telephone: 832-486-2730

OCD Only

Received by: _____ Date: _____

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

Signature: Bradford Billings Date: 02/16/2021

Variance request for maximum 500 sq.ft. for confirmation sampling is approved.

State of New Mexico
Oil Conservation Division

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: _____

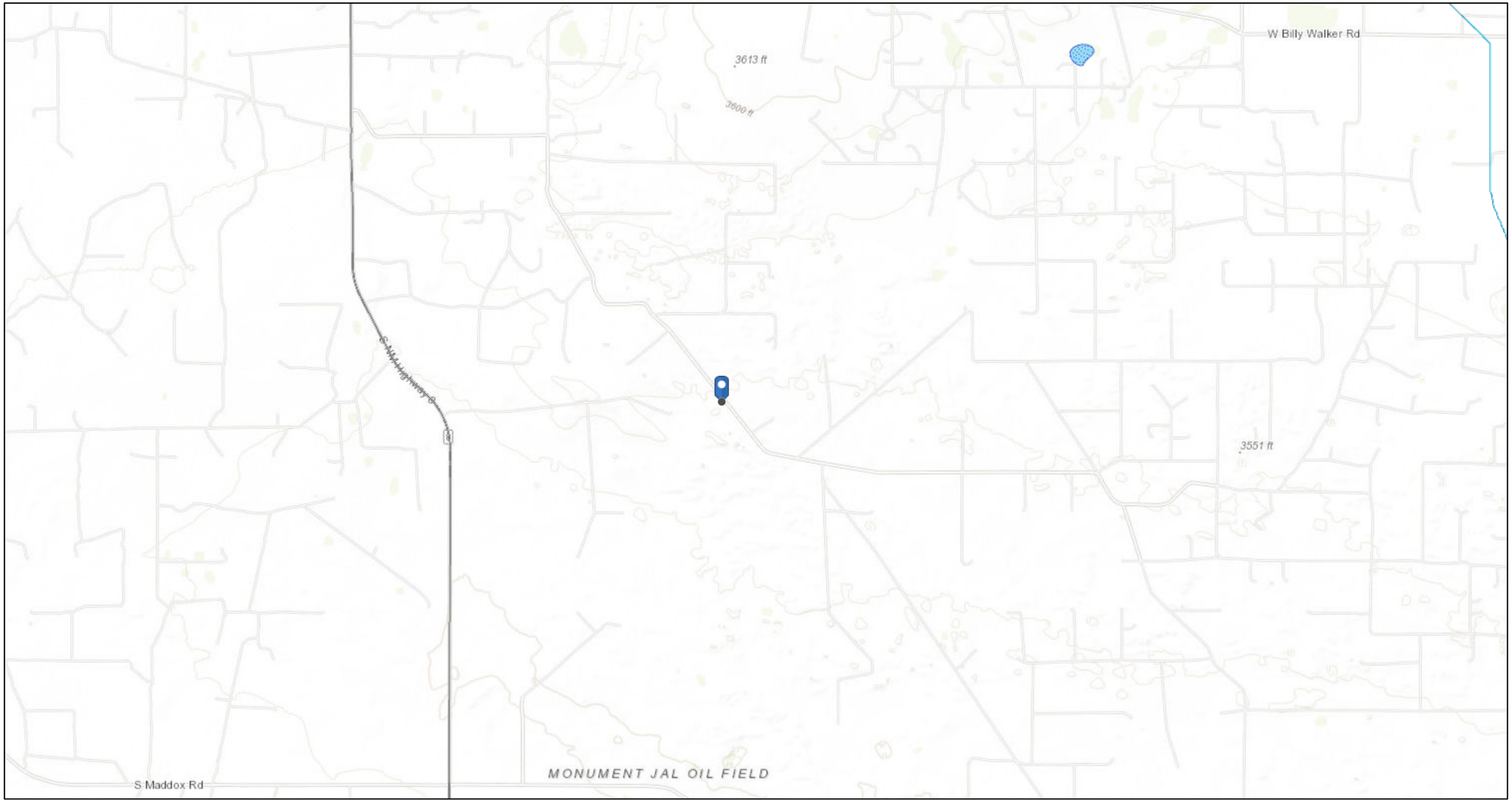
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

APPENDIX B
Site Characterization Data

SEMU Eumont #84 Release



5/11/2021, 9:01:23 AM

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

1:36,112

0 0.38 0.75 1.5 mi

0 0.5 1 2 km

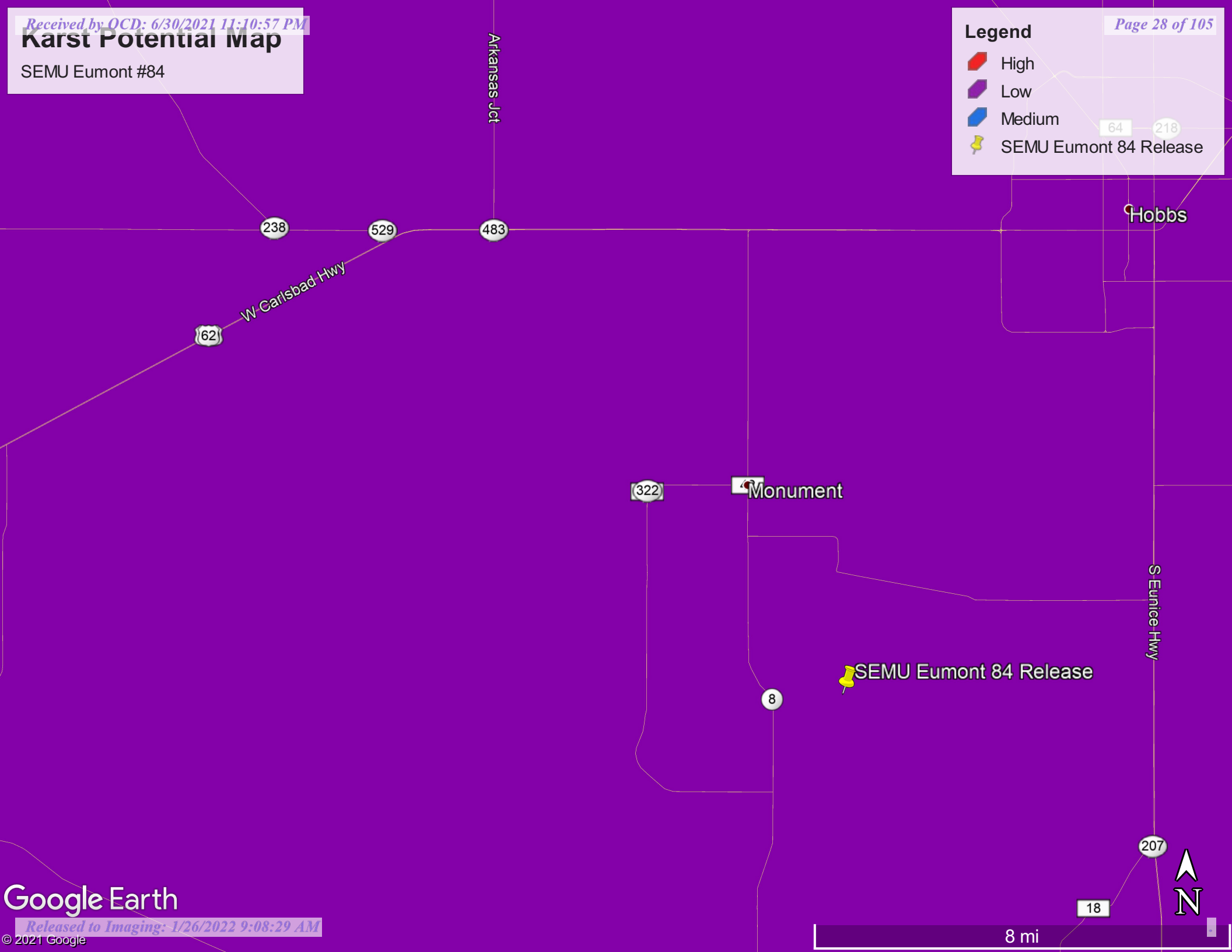
US Census Bureau, NMDOT, Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/ NASA, EPA, USDA

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Karst Potential Map

SEMU Eumont #84



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-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 14583 POD2	L	LE	1	3	1	27	20S	37E	664664	3602311	2420	63	57	6
L 14583 POD1	L	LE	1	3	1	27	20S	37E	664656	3602312	2423	65	57	8
L 14583 POD3	L	LE	3	3	1	27	20S	37E	664647	3602313	2426	65	53	12
L 14583 POD4	L	LE	1	3	1	27	20S	37E	664664	3602294	2434	50		

Average Depth to Water: **55 feet**

Minimum Depth: **53 feet**

Maximum Depth: **57 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 665889.8 **Northing (Y):** 3604398.73 **Radius:** 2500

APPENDIX C
Laboratory Analytical Data

ANALYTICAL REPORT

May 03, 2021

ConocoPhillips - Tetra Tech

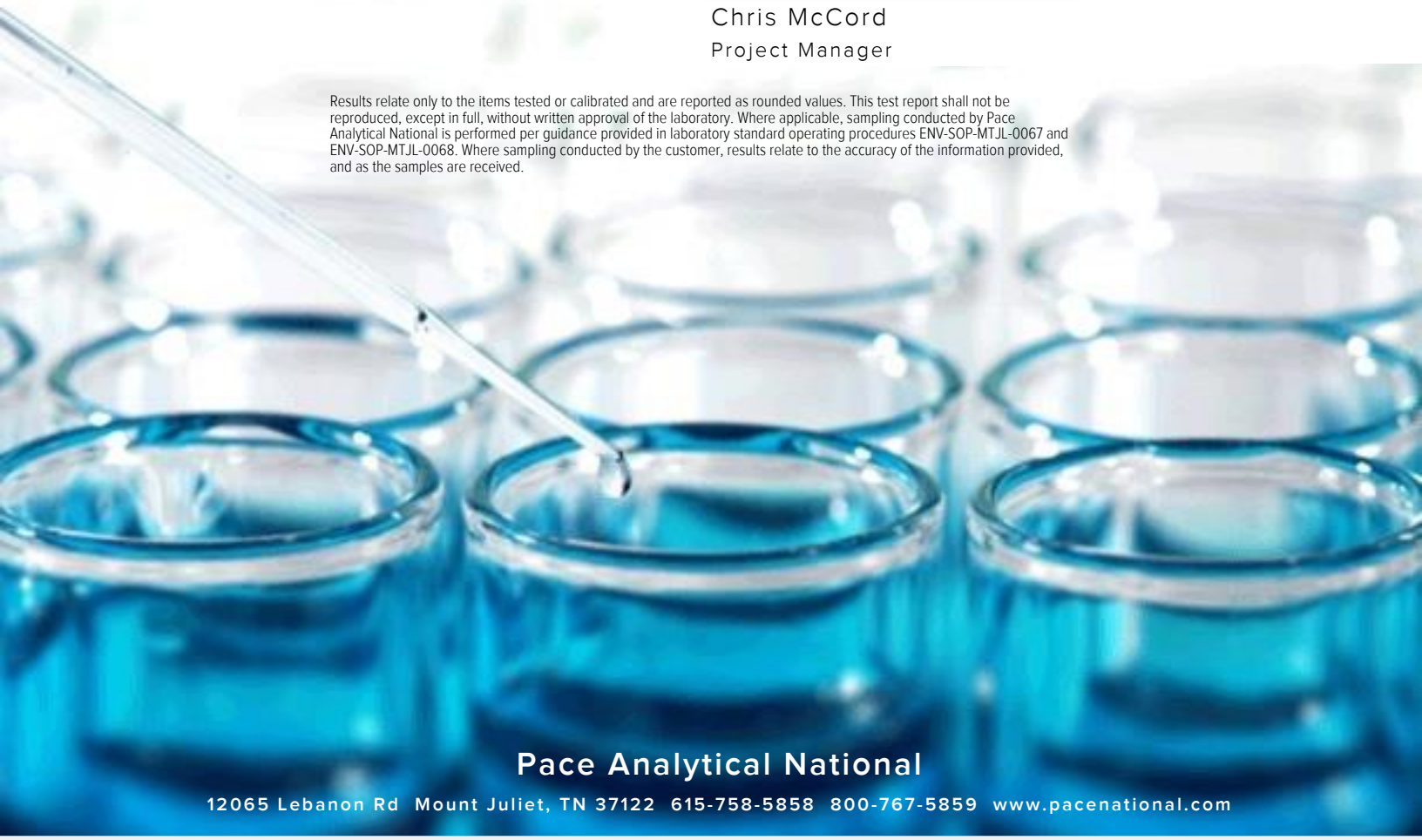
Sample Delivery Group:	L1345616
Samples Received:	04/29/2021
Project Number:	212C-MD-02480
Description:	Semu Eumont 84 Remediation

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SW-3 (4) L1345616-01 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 10:00 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 14:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662061	1	04/30/21 10:11	04/30/21 21:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 17:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	05/01/21 01:03	TJD	Mt. Juliet, TN

SW-6 (6) L1345616-02 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 10:10 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 14:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662813	1	04/30/21 10:11	05/03/21 00:50	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 18:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 21:00	TJD	Mt. Juliet, TN

SW-11 L1345616-03 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 10:20 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 14:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662061	1	04/30/21 10:11	04/30/21 22:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 18:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	05/01/21 00:23	TJD	Mt. Juliet, TN

SW-12 L1345616-04 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 10:30 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 14:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662061	1	04/30/21 10:11	04/30/21 22:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 18:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 23:15	TJD	Mt. Juliet, TN

SW-13 L1345616-05 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 10:40 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 14:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662061	1	04/30/21 10:11	04/30/21 23:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 19:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	05/01/21 01:16	TJD	Mt. Juliet, TN

SW-14 L1345616-06 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 10:50 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 15:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662061	1	04/30/21 10:11	04/30/21 23:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 19:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 21:54	TJD	Mt. Juliet, TN

SW-15 L1345616-07 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 11:00 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 15:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	04/30/21 21:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 19:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	05/01/21 01:30	TJD	Mt. Juliet, TN

SW-16 L1345616-08 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 11:20 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661866	1	04/30/21 08:55	04/30/21 09:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 15:46	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	04/30/21 22:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 20:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 23:28	TJD	Mt. Juliet, TN

SW-17 L1345616-09 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 11:40 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 15:56	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	04/30/21 22:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 20:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 23:42	TJD	Mt. Juliet, TN

SW-18 L1345616-10 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 12:00 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 16:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	04/30/21 22:55	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 20:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 22:35	TJD	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SW-19 L1345616-11 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 12:20 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 16:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	04/30/21 23:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 21:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 22:08	TJD	Mt. Juliet, TN

FS-2 (4) L1345616-12 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 12:40 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 16:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 00:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 21:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 22:48	TJD	Mt. Juliet, TN

FS-5 (4) L1345616-13 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 13:00 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 17:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 00:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 21:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 22:21	TJD	Mt. Juliet, TN

FS-6 (4) L1345616-14 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 13:10 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 17:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 00:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 22:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662121	1	04/30/21 14:39	04/30/21 23:01	TJD	Mt. Juliet, TN

FS-7 (4) L1345616-15 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 13:20 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 17:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 01:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 22:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662136	1	04/30/21 14:56	05/01/21 01:53	TJD	Mt. Juliet, TN

FS-8 (4) L1345616-16 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 13:30 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 17:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 01:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 22:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662136	1	04/30/21 14:56	05/01/21 02:06	TJD	Mt. Juliet, TN

FS-9 (4) L1345616-17 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 13:40 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 18:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 01:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 23:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662136	1	04/30/21 14:56	05/01/21 02:20	TJD	Mt. Juliet, TN

FS-10 (4) L1345616-18 Solid

Collected by: Joe Tyler | Collected date/time: 04/28/21 13:50 | Received date/time: 04/29/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661867	1	04/30/21 11:32	04/30/21 11:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1663340	1	05/03/21 11:05	05/03/21 18:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1662063	1	04/30/21 10:11	05/01/21 02:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1662185	1	04/30/21 10:11	04/30/21 23:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1662136	1	04/30/21 14:56	05/01/21 02:33	TJD	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	103		9.50	20.6	1	05/03/2021 14:12	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0512	J	0.0224	0.103	1	04/30/2021 21:53	WG1662061
(S) a,a,a-Trifluorotoluene(FID)	*90.7*			*77.0-120*		*04/30/2021 21:53*	WG1662061

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000772	J	0.000497	0.00106	1	04/30/2021 17:54	WG1662185
Toluene	0.0118		0.00138	0.00532	1	04/30/2021 17:54	WG1662185
Ethylbenzene	0.00649		0.000784	0.00266	1	04/30/2021 17:54	WG1662185
Total Xylenes	0.0324		0.000937	0.00692	1	04/30/2021 17:54	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 17:54*	WG1662185
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/30/2021 17:54*	WG1662185
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/30/2021 17:54*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	19.0		1.66	4.13	1	05/01/2021 01:03	WG1662121
C28-C40 Oil Range	103		0.283	4.13	1	05/01/2021 01:03	WG1662121
(S) o-Terphenyl	*50.2*			*18.0-148*		*05/01/2021 01:03*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	54.8		9.29	20.2	1	05/03/2021 14:30	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	05/03/2021 00:50	WG1662813
(S) a,a,a-Trifluorotoluene(FID)	*90.7*			*77.0-120*		*05/03/2021 00:50*	WG1662813

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000476	0.00102	1	04/30/2021 18:14	WG1662185
Toluene	0.00340	J	0.00133	0.00510	1	04/30/2021 18:14	WG1662185
Ethylbenzene	0.00148	J	0.000752	0.00255	1	04/30/2021 18:14	WG1662185
Total Xylenes	0.00821	B	0.000898	0.00663	1	04/30/2021 18:14	WG1662185
(S) Toluene-d8	*107*			*75.0-131*		*04/30/2021 18:14*	WG1662185
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*04/30/2021 18:14*	WG1662185
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/30/2021 18:14*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.04	1	04/30/2021 21:00	WG1662121
C28-C40 Oil Range	1.66	B J	0.277	4.04	1	04/30/2021 21:00	WG1662121
(S) o-Terphenyl	*35.8*			*18.0-148*		*04/30/2021 21:00*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	17.6	J	9.59	20.8	1	05/03/2021 14:40	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	04/30/2021 22:37	WG1662061
(S) a,a,a-Trifluorotoluene(FID)	*91.6*			*77.0-120*		*04/30/2021 22:37*	WG1662061

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000506	0.00108	1	04/30/2021 18:33	WG1662185
Toluene	0.00168	J	0.00141	0.00542	1	04/30/2021 18:33	WG1662185
Ethylbenzene	0.000840	J	0.000799	0.00271	1	04/30/2021 18:33	WG1662185
Total Xylenes	0.00434	B J	0.000954	0.00705	1	04/30/2021 18:33	WG1662185
(S) Toluene-d8	*104*			*75.0-131*		*04/30/2021 18:33*	WG1662185
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/30/2021 18:33*	WG1662185
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/30/2021 18:33*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.22		1.68	4.17	1	05/01/2021 00:23	WG1662121
C28-C40 Oil Range	25.1		0.286	4.17	1	05/01/2021 00:23	WG1662121
(S) o-Terphenyl	*54.5*			*18.0-148*		*05/01/2021 00:23*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	16.2	J	9.68	21.0	1	05/03/2021 14:49	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.105	1	04/30/2021 22:59	WG1662061
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*77.0-120*		*04/30/2021 22:59*	WG1662061

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000516	0.00110	1	04/30/2021 18:52	WG1662185
Toluene	U		0.00144	0.00552	1	04/30/2021 18:52	WG1662185
Ethylbenzene	U		0.000814	0.00276	1	04/30/2021 18:52	WG1662185
Total Xylenes	0.00232	B J	0.000972	0.00718	1	04/30/2021 18:52	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 18:52*	WG1662185
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/30/2021 18:52*	WG1662185
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/30/2021 18:52*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.02		1.69	4.21	1	04/30/2021 23:15	WG1662121
C28-C40 Oil Range	27.7		0.288	4.21	1	04/30/2021 23:15	WG1662121
(S) o-Terphenyl	*47.6*			*18.0-148*		*04/30/2021 23:15*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.2		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.27	20.2	1	05/03/2021 14:59	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	04/30/2021 23:21	WG1662061
(S) a,a,a-Trifluorotoluene(FID)	*92.4*			*77.0-120*		*04/30/2021 23:21*	WG1662061

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000475	0.00102	1	04/30/2021 19:11	WG1662185
Toluene	U		0.00132	0.00508	1	04/30/2021 19:11	WG1662185
Ethylbenzene	U		0.000749	0.00254	1	04/30/2021 19:11	WG1662185
Total Xylenes	0.00222	B J	0.000894	0.00660	1	04/30/2021 19:11	WG1662185
(S) Toluene-d8	*105*			*75.0-131*		*04/30/2021 19:11*	WG1662185
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/30/2021 19:11*	WG1662185
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/30/2021 19:11*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.44		1.62	4.03	1	05/01/2021 01:16	WG1662121
C28-C40 Oil Range	25.5		0.276	4.03	1	05/01/2021 01:16	WG1662121
(S) o-Terphenyl	*49.5*			*18.0-148*		*05/01/2021 01:16*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.4		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.26	20.1	1	05/03/2021 15:08	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.101	1	04/30/2021 23:43	WG1662061
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*77.0-120*		*04/30/2021 23:43*	WG1662061

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000473	0.00101	1	04/30/2021 19:30	WG1662185
Toluene	U		0.00132	0.00506	1	04/30/2021 19:30	WG1662185
Ethylbenzene	U		0.000746	0.00253	1	04/30/2021 19:30	WG1662185
Total Xylenes	0.00137	B J	0.000891	0.00658	1	04/30/2021 19:30	WG1662185
(S) Toluene-d8	*105*			*75.0-131*		*04/30/2021 19:30*	WG1662185
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/30/2021 19:30*	WG1662185
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/30/2021 19:30*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.02	1	04/30/2021 21:54	WG1662121
C28-C40 Oil Range	1.30	B J	0.276	4.02	1	04/30/2021 21:54	WG1662121
(S) o-Terphenyl	*34.0*			*18.0-148*		*04/30/2021 21:54*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.9		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.70	21.1	1	05/03/2021 15:18	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.105	1	04/30/2021 21:48	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*04/30/2021 21:48*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000517	0.00111	1	04/30/2021 19:49	WG1662185
Toluene	U		0.00144	0.00554	1	04/30/2021 19:49	WG1662185
Ethylbenzene	U		0.000817	0.00277	1	04/30/2021 19:49	WG1662185
Total Xylenes	0.00194	B J	0.000975	0.00720	1	04/30/2021 19:49	WG1662185
(S) Toluene-d8	*104*			*75.0-131*		*04/30/2021 19:49*	WG1662185
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/30/2021 19:49*	WG1662185
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/30/2021 19:49*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	17.2		1.70	4.22	1	05/01/2021 01:30	WG1662121
C28-C40 Oil Range	63.8		0.289	4.22	1	05/01/2021 01:30	WG1662121
(S) o-Terphenyl	*47.7*			*18.0-148*		*05/01/2021 01:30*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	04/30/2021 09:03	WG1661866

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	28.1		9.64	21.0	1	05/03/2021 15:46	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0270	J	0.0227	0.105	1	04/30/2021 22:10	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*04/30/2021 22:10*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000511	0.00110	1	04/30/2021 20:08	WG1662185
Toluene	U		0.00142	0.00548	1	04/30/2021 20:08	WG1662185
Ethylbenzene	U		0.000807	0.00274	1	04/30/2021 20:08	WG1662185
Total Xylenes	0.00128	B J	0.000964	0.00712	1	04/30/2021 20:08	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 20:08*	WG1662185
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/30/2021 20:08*	WG1662185
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/30/2021 20:08*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.79	J	1.69	4.19	1	04/30/2021 23:28	WG1662121
C28-C40 Oil Range	9.05		0.287	4.19	1	04/30/2021 23:28	WG1662121
(S) o-Terphenyl	*41.8*			*18.0-148*		*04/30/2021 23:28*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.6		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.33	20.3	1	05/03/2021 15:56	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	04/30/2021 22:33	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*04/30/2021 22:33*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000480	0.00103	1	04/30/2021 20:27	WG1662185
Toluene	U		0.00134	0.00514	1	04/30/2021 20:27	WG1662185
Ethylbenzene	U		0.000758	0.00257	1	04/30/2021 20:27	WG1662185
Total Xylenes	0.00127	B J	0.000905	0.00669	1	04/30/2021 20:27	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 20:27*	WG1662185
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*04/30/2021 20:27*	WG1662185
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/30/2021 20:27*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.64	J	1.63	4.06	1	04/30/2021 23:42	WG1662121
C28-C40 Oil Range	8.61		0.278	4.06	1	04/30/2021 23:42	WG1662121
(S) o-Terphenyl	*46.0*			*18.0-148*		*04/30/2021 23:42*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	05/03/2021 16:05	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	04/30/2021 22:55	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*04/30/2021 22:55*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000476	0.00102	1	04/30/2021 20:47	WG1662185
Toluene	U		0.00133	0.00510	1	04/30/2021 20:47	WG1662185
Ethylbenzene	U		0.000751	0.00255	1	04/30/2021 20:47	WG1662185
Total Xylenes	0.00136	B J	0.000897	0.00663	1	04/30/2021 20:47	WG1662185
(S) Toluene-d8	*105*			*75.0-131*		*04/30/2021 20:47*	WG1662185
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/30/2021 20:47*	WG1662185
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/30/2021 20:47*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.04	1	04/30/2021 22:35	WG1662121
C28-C40 Oil Range	2.90	B J	0.277	4.04	1	04/30/2021 22:35	WG1662121
(S) o-Terphenyl	*37.1*			*18.0-148*		*04/30/2021 22:35*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.2		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.37	20.4	1	05/03/2021 16:15	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	04/30/2021 23:38	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*04/30/2021 23:38*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000484	0.00104	1	04/30/2021 21:06	WG1662185
Toluene	U		0.00135	0.00518	1	04/30/2021 21:06	WG1662185
Ethylbenzene	U		0.000764	0.00259	1	04/30/2021 21:06	WG1662185
Total Xylenes	0.00109	B J	0.000912	0.00674	1	04/30/2021 21:06	WG1662185
(S) Toluene-d8	*105*			*75.0-131*		*04/30/2021 21:06*	WG1662185
(S) 4-Bromofluorobenzene	*160*	J1		*67.0-138*		*04/30/2021 21:06*	WG1662185
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/30/2021 21:06*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.07	1	04/30/2021 22:08	WG1662121
C28-C40 Oil Range	0.443	B J	0.279	4.07	1	04/30/2021 22:08	WG1662121
(S) o-Terphenyl	*35.7*			*18.0-148*		*04/30/2021 22:08*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.2		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.28	20.2	1	05/03/2021 16:53	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	05/01/2021 00:00	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*05/01/2021 00:00*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000475	0.00102	1	04/30/2021 21:25	WG1662185
Toluene	U		0.00132	0.00508	1	04/30/2021 21:25	WG1662185
Ethylbenzene	U		0.000749	0.00254	1	04/30/2021 21:25	WG1662185
Total Xylenes	U		0.000894	0.00661	1	04/30/2021 21:25	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 21:25*	WG1662185
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*04/30/2021 21:25*	WG1662185
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/30/2021 21:25*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.03	1	04/30/2021 22:48	WG1662121
C28-C40 Oil Range	1.21	B J	0.276	4.03	1	04/30/2021 22:48	WG1662121
(S) o-Terphenyl	*33.6*			*18.0-148*		*04/30/2021 22:48*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.30	20.2	1	05/03/2021 17:03	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	05/01/2021 00:22	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*05/01/2021 00:22*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000477	0.00102	1	04/30/2021 21:44	WG1662185
Toluene	U		0.00133	0.00511	1	04/30/2021 21:44	WG1662185
Ethylbenzene	U		0.000753	0.00255	1	04/30/2021 21:44	WG1662185
Total Xylenes	0.00126	B J	0.000899	0.00664	1	04/30/2021 21:44	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 21:44*	WG1662185
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/30/2021 21:44*	WG1662185
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/30/2021 21:44*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.04	1	04/30/2021 22:21	WG1662121
C28-C40 Oil Range	0.433	B J	0.277	4.04	1	04/30/2021 22:21	WG1662121
(S) o-Terphenyl	*24.2*			*18.0-148*		*04/30/2021 22:21*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.3		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.35	20.3	1	05/03/2021 17:12	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	05/01/2021 00:44	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*05/01/2021 00:44*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00103	1	04/30/2021 22:03	WG1662185
Toluene	U		0.00134	0.00517	1	04/30/2021 22:03	WG1662185
Ethylbenzene	U		0.000762	0.00258	1	04/30/2021 22:03	WG1662185
Total Xylenes	0.000982	B J	0.000910	0.00672	1	04/30/2021 22:03	WG1662185
(S) Toluene-d8	*71.5*	J2		*75.0-131*		*04/30/2021 22:03*	WG1662185
(S) 4-Bromofluorobenzene	*85.3*			*67.0-138*		*04/30/2021 22:03*	WG1662185
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/30/2021 22:03*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.07	1	04/30/2021 23:01	WG1662121
C28-C40 Oil Range	0.418	B J	0.279	4.07	1	04/30/2021 23:01	WG1662121
(S) o-Terphenyl	*27.3*			*18.0-148*		*04/30/2021 23:01*	WG1662121

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	13.7	J	9.29	20.2	1	05/03/2021 17:41	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	05/01/2021 01:06	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*05/01/2021 01:06*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000476	0.00102	1	04/30/2021 22:22	WG1662185
Toluene	U		0.00133	0.00510	1	04/30/2021 22:22	WG1662185
Ethylbenzene	U		0.000752	0.00255	1	04/30/2021 22:22	WG1662185
Total Xylenes	0.000944	B J	0.000898	0.00663	1	04/30/2021 22:22	WG1662185
(S) Toluene-d8	*105*			*75.0-131*		*04/30/2021 22:22*	WG1662185
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*04/30/2021 22:22*	WG1662185
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/30/2021 22:22*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.04	1	05/01/2021 01:53	WG1662136
C28-C40 Oil Range	5.53		0.277	4.04	1	05/01/2021 01:53	WG1662136
(S) o-Terphenyl	*62.2*			*18.0-148*		*05/01/2021 01:53*	WG1662136

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.1		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	138		9.38	20.4	1	05/03/2021 17:50	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	05/01/2021 01:28	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*05/01/2021 01:28*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000485	0.00104	1	04/30/2021 22:41	WG1662185
Toluene	U		0.00135	0.00519	1	04/30/2021 22:41	WG1662185
Ethylbenzene	U		0.000766	0.00260	1	04/30/2021 22:41	WG1662185
Total Xylenes	U		0.000914	0.00675	1	04/30/2021 22:41	WG1662185
(S) Toluene-d8	*106*			*75.0-131*		*04/30/2021 22:41*	WG1662185
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/30/2021 22:41*	WG1662185
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/30/2021 22:41*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	05/01/2021 02:06	WG1662136
C28-C40 Oil Range	0.646	J	0.279	4.08	1	05/01/2021 02:06	WG1662136
(S) o-Terphenyl	*61.7*			*18.0-148*		*05/01/2021 02:06*	WG1662136

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.50	20.6	1	05/03/2021 18:00	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	05/01/2021 01:50	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*05/01/2021 01:50*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00106	1	04/30/2021 23:00	WG1662185
Toluene	U		0.00138	0.00532	1	04/30/2021 23:00	WG1662185
Ethylbenzene	U		0.000785	0.00266	1	04/30/2021 23:00	WG1662185
Total Xylenes	U		0.000937	0.00692	1	04/30/2021 23:00	WG1662185
(S) Toluene-d8	*107*			*75.0-131*		*04/30/2021 23:00*	WG1662185
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*04/30/2021 23:00*	WG1662185
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/30/2021 23:00*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.13	1	05/01/2021 02:20	WG1662136
C28-C40 Oil Range	6.26		0.283	4.13	1	05/01/2021 02:20	WG1662136
(S) o-Terphenyl	*55.2*			*18.0-148*		*05/01/2021 02:20*	WG1662136

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	04/30/2021 11:47	WG1661867

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	214		9.35	20.3	1	05/03/2021 18:09	WG1663340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0220	0.102	1	05/01/2021 02:12	WG1662063
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*05/01/2021 02:12*	WG1662063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000482	0.00103	1	04/30/2021 23:20	WG1662185
Toluene	U		0.00134	0.00516	1	04/30/2021 23:20	WG1662185
Ethylbenzene	U		0.000761	0.00258	1	04/30/2021 23:20	WG1662185
Total Xylenes	U		0.000908	0.00671	1	04/30/2021 23:20	WG1662185
(S) Toluene-d8	*107*			*75.0-131*		*04/30/2021 23:20*	WG1662185
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/30/2021 23:20*	WG1662185
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*04/30/2021 23:20*	WG1662185

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.06	1	05/01/2021 02:33	WG1662136
C28-C40 Oil Range	U		0.278	4.06	1	05/01/2021 02:33	WG1662136
(S) o-Terphenyl	*46.6*			*18.0-148*		*05/01/2021 02:33*	WG1662136

Method Blank (MB)

(MB) R3648985-1 04/30/21 09:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1345616-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1345616-03 04/30/21 09:03 • (DUP) R3648985-3 04/30/21 09:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.0	96.6	1	0.690		10

Laboratory Control Sample (LCS)

(LCS) R3648985-2 04/30/21 09:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3649001-1 04/30/21 11:47

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1345616-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1345616-14 04/30/21 11:47 • (DUP) R3649001-3 04/30/21 11:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.3	98.4	1	0.0535		10

Laboratory Control Sample (LCS)

(LCS) R3649001-2 04/30/21 11:47

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3649801-1 05/03/21 13:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1345616-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1345616-01 05/03/21 14:12 • (DUP) R3649801-3 05/03/21 14:21

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	103	95.8	1	7.00		20

L1345616-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1345616-11 05/03/21 16:15 • (DUP) R3649801-4 05/03/21 16:24

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3649801-2 05/03/21 13:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	200	100	90.0-110	

L1345616-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345616-11 05/03/21 16:15 • (MS) R3649801-5 05/03/21 16:34 • (MSD) R3649801-6 05/03/21 16:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	509	U	488	492	95.9	96.6	1	80.0-120			0.725	20

Method Blank (MB)

(MB) R3649183-2 04/30/21 21:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3649183-1 04/30/21 20:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.82	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*77.0-120*	

L1343757-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1343757-02 05/01/21 04:07 • (MS) R3649183-3 05/01/21 05:12 • (MSD) R3649183-4 05/01/21 05:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	309	U	235	244	76.1	79.0	25	10.0-151			3.74	28
(S) a,a,a-Trifluorotoluene(FID)					*107*	*107*		*77.0-120*				

Method Blank (MB)

(MB) R3649217-3 04/30/21 20:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*117*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3649217-1 04/30/21 19:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.40	98.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

L1343663-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1343663-12 05/01/21 04:25 • (MS) R3649217-6 05/01/21 06:15 • (MSD) R3649217-7 05/01/21 06:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	509	689	902	929	41.9	47.2	200	10.0-151			2.94	28
(S) a,a,a-Trifluorotoluene(FID)					*113*	*114*		*77.0-120*				

Method Blank (MB)

(MB) R3649418-2 05/02/21 23:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3649418-1 05/02/21 23:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.51	82.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*109*	*77.0-120*	

Method Blank (MB)

(MB) R3649209-3 04/30/21 17:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	0.00235	J	0.000880	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3649209-1 04/30/21 16:19 • (LCSD) R3649209-2 04/30/21 16:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.118	0.120	94.4	96.0	70.0-123			1.68	20
Ethylbenzene	0.125	0.133	0.129	106	103	74.0-126			3.05	20
Toluene	0.125	0.124	0.125	99.2	100	75.0-121			0.803	20
Xylenes, Total	0.375	0.385	0.384	103	102	72.0-127			0.260	20
(S) Toluene-d8				*105*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*103*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*110*	*70.0-130*				

L1344584-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1344584-03 04/30/21 23:58 • (MS) R3649209-4 05/01/21 00:17 • (MSD) R3649209-5 05/01/21 00:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	2.18	U	1.23	1.52	38.1	46.8	20	10.0-149			20.5	37
(S) Toluene-d8					*96.8*	*58.5*		*75.0-131*		J2		
(S) 4-Bromofluorobenzene					*157*	*94.8*		*67.0-138*	J1			
(S) 1,2-Dichloroethane-d4					*93.8*	*87.4*		*70.0-130*				

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

Method Blank (MB)

(MB) R3648975-1 04/30/21 20:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.719	J	0.274	4.00
(S) o-Terphenyl	*35.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3648975-2 04/30/21 20:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	26.4	52.8	50.0-150	
(S) o-Terphenyl			*45.9*	*18.0-148*	

L1345616-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345616-02 04/30/21 21:00 • (MS) R3648975-3 04/30/21 21:14 • (MSD) R3648975-4 04/30/21 21:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	47.9	U	27.8	26.8	58.0	56.0	1	50.0-150			3.70	20
(S) o-Terphenyl					*48.6*	*47.0*		*18.0-148*				

Method Blank (MB)

(MB) R3649007-1 05/01/21 01:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*64.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3649007-2 05/01/21 01:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.0	66.0	50.0-150	
(S) o-Terphenyl			*43.7*	*18.0-148*	

L1343663-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1343663-09 05/01/21 05:09 • (MS) R3649007-3 05/01/21 05:22 • (MSD) R3649007-4 05/01/21 05:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.6	206	195	222	0.000	30.6	1	50.0-150	J6	J6	13.3	20
(S) o-Terphenyl					*19.3*	*15.1*		*18.0-148*		J2		

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Analysis Request of Chain of Custody Record

Page : 1 of 2

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

E001

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Semu Eumont 84 Remediation	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02480
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	SW-3 (4')	4/28/21	1000		X			X		1	N	X		X													X						
-02	SW-6 (6')		1010		X			X		1	N	X		X													X						
-03	SW-11		1020		X			X		1	N	X		X													X						
-04	SW-12		1030		X			X		1	N	X		X													X						
-05	SW-13		1040		X			X		1	N	X		X													X						
-06	SW-14		1050		X			X		1	N	X		X													X						
-07	SW-15		1100		X			X		1	N	X		X													X						
-08	SW-16		1120		X			X		1	N	X		X													X						
-09	SW-17		1140		X			X		1	N	X		X													X						
-10	SW-18		1200		X			X		1	N	X		X													X						

Relinquished by: Andrew Garcia	Date: 4-28-21	Time: 15:00	Received by:	Date: 4-28-21	Time: 15:00
Relinquished by:	Date: 4-28-21	Time: 16:30	Received by:	Date: 4-28-21	Time: 16:30
Relinquished by:	Date:	Time:	Received by:	Date: 4-29-21	Time: 1200

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [ ] Standard
- [X] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

1.8°-1=1.7°

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Semu Eumont 84 Remediation	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02480
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	L1345616																																	
-11	SW-19	4/28/21	1220		X				X			1	N	X		X												X						
-12	FS-2 (4')		1240		X				X			1	N	X		X												X						
-13	FS-5 (4')		1300		X				X			1	N	X		X												X						
-14	FS-6 (4')		1310		X				X			1	N	X		X												X						
-15	FS-7 (4')		1320		X				X			1	N	X		X												X						
-16	FS-8 (4')		1330		X				X			1	N	X		X												X						
-17	FS-9 (4')		1340		X				X			1	N	X		X												X						
-18	FS-10 (4')		1350		X				X			1	N	X		X												X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Andrew Garcia	4-28-21	15:45		4-28-21	15:45
	4-28-21	16:30	SLA	4-28-21	16:30
				4-29-21	1200

ORIGINAL COPY

LAB USE ONLY
Sample Temperature

REMARKS:
- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

1.8°C +/- 1.7°C

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA	CL345616	
Cooler Received/Opened On: 4 / 29 / 21 Temperature:	[0]	
Received By: Delisha Kirkendoll		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 10, 2021

ConocoPhillips - Tetra Tech

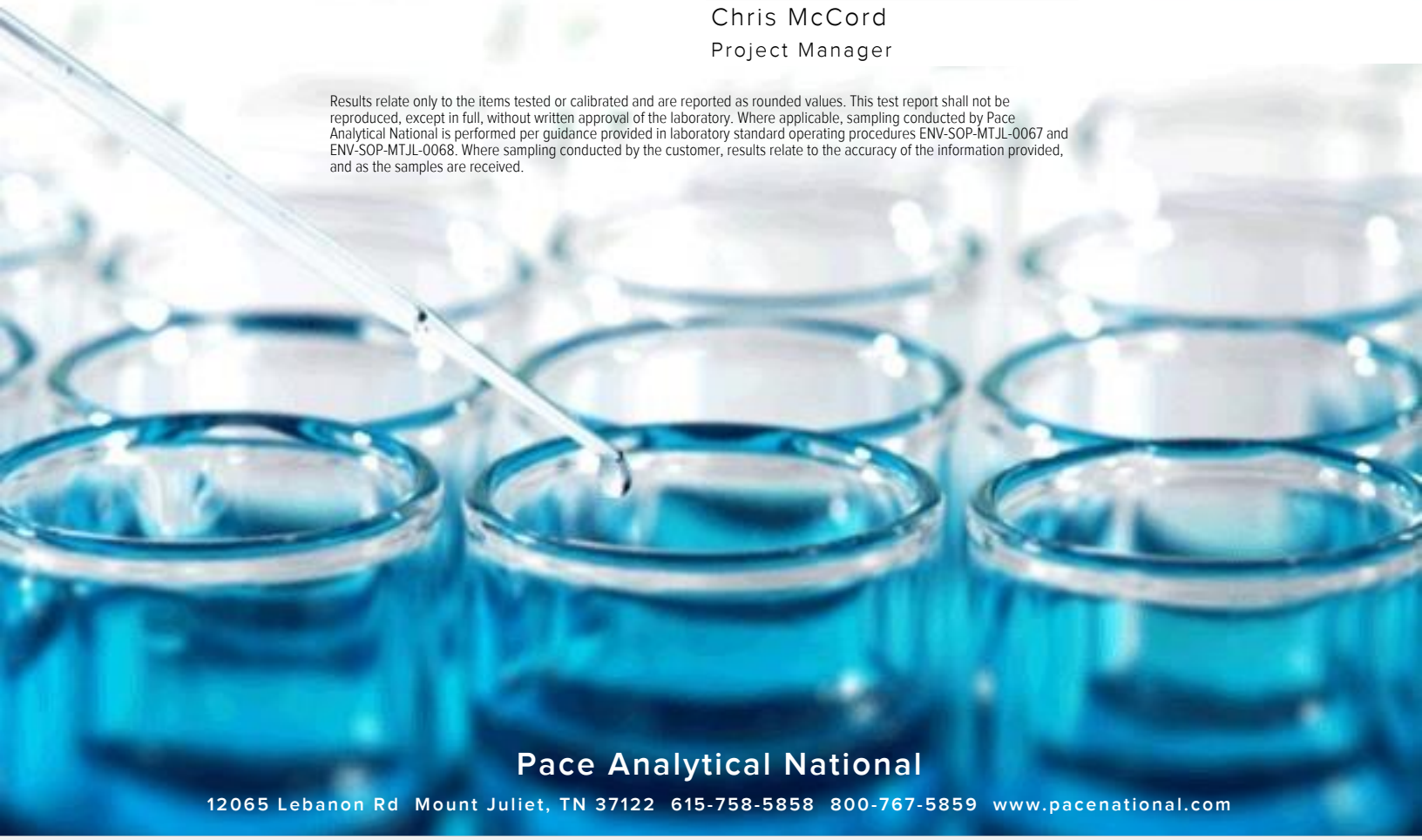
Sample Delivery Group:	L1348312
Samples Received:	05/05/2021
Project Number:	212C-MD-02480
Description:	Semu Eumont 84 Remediation

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

SW-3 (5') L1348312-01 Solid

Collected by: Joe Tyler
Collected date/time: 05/04/21 10:00
Received date/time: 05/05/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1665384	1	05/06/21 09:04	05/06/21 09:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1665381	1	05/06/21 17:14	05/07/21 03:08	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1665369	1	05/06/21 09:28	05/06/21 15:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665612	1	05/06/21 09:28	05/06/21 12:29	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1665638	1	05/06/21 18:55	05/07/21 02:55	DMG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	05/06/2021 09:12	WG1665384

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	16.1	J	9.61	20.9	1	05/07/2021 03:08	WG1665381

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0654	J	0.0227	0.104	1	05/06/2021 15:26	WG1665369
(S) a,a,a-Trifluorotoluene(FID)	*87.9*			*77.0-120*		*05/06/2021 15:26*	WG1665369

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000508	0.00109	1	05/06/2021 12:29	WG1665612
Toluene	0.00552	B	0.00142	0.00544	1	05/06/2021 12:29	WG1665612
Ethylbenzene	0.000925	J	0.000802	0.00272	1	05/06/2021 12:29	WG1665612
Total Xylenes	0.00377	J	0.000958	0.00708	1	05/06/2021 12:29	WG1665612
(S) Toluene-d8	*106*			*75.0-131*		*05/06/2021 12:29*	WG1665612
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*05/06/2021 12:29*	WG1665612
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*05/06/2021 12:29*	WG1665612

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.55		1.68	4.18	1	05/07/2021 02:55	WG1665638
C28-C40 Oil Range	29.3		0.286	4.18	1	05/07/2021 02:55	WG1665638
(S) o-Terphenyl	*49.4*			*18.0-148*		*05/07/2021 02:55*	WG1665638

Method Blank (MB)

(MB) R3651421-1 05/06/21 09:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1348282-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1348282-04 05/06/21 09:12 • (DUP) R3651421-3 05/06/21 09:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.0	86.7	1	0.807		10

Laboratory Control Sample (LCS)

(LCS) R3651421-2 05/06/21 09:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3651591-1 05/06/21 21:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1347411-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1347411-02 05/06/21 22:47 • (DUP) R3651591-3 05/06/21 22:57

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1347411-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1347411-12 05/07/21 00:51 • (DUP) R3651591-4 05/07/21 01:01

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3651591-2 05/06/21 22:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	193	96.7	90.0-110	

L1347411-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1347411-12 05/07/21 00:51 • (MS) R3651591-5 05/07/21 01:10 • (MSD) R3651591-6 05/07/21 01:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	510	U	468	462	91.7	90.6	1	80.0-120			1.21	20

Method Blank (MB)

(MB) R3651200-2 05/06/21 12:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3651200-1 05/06/21 11:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.49	99.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Method Blank (MB)

(MB) R3651234-3 05/06/21 11:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	0.00165	J	0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651234-1 05/06/21 10:14 • (LCSD) R3651234-2 05/06/21 10:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.113	0.111	90.4	88.8	70.0-123			1.79	20
Ethylbenzene	0.125	0.113	0.107	90.4	85.6	74.0-126			5.45	20
Toluene	0.125	0.114	0.106	91.2	84.8	75.0-121			7.27	20
Xylenes, Total	0.375	0.289	0.312	77.1	83.2	72.0-127			7.65	20
(S) Toluene-d8				*104*	*104*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.1*	*97.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.1*	*98.3*	*70.0-130*				

Method Blank (MB)

(MB) R3651420-1 05/07/21 01:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.944	J	0.274	4.00
(S) o-Terphenyl	*48.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3651420-2 05/07/21 02:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	27.7	55.4	50.0-150	
(S) o-Terphenyl			*49.8*	*18.0-148*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Analysis Request of Chain of Custody Record

G188

Page : 1 of 1

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1348312

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Semu Eumont 84 Remediation	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02480
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	SW-3 (5')	05/04/21	1000		X				X			1	N	X		X												X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Andrew Garcia		5/4/2021 13:50			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			Bailey Rolan	5/5/21	0800

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

4.0 + .1 = 4.1
AT BB

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day (24 hr.) 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

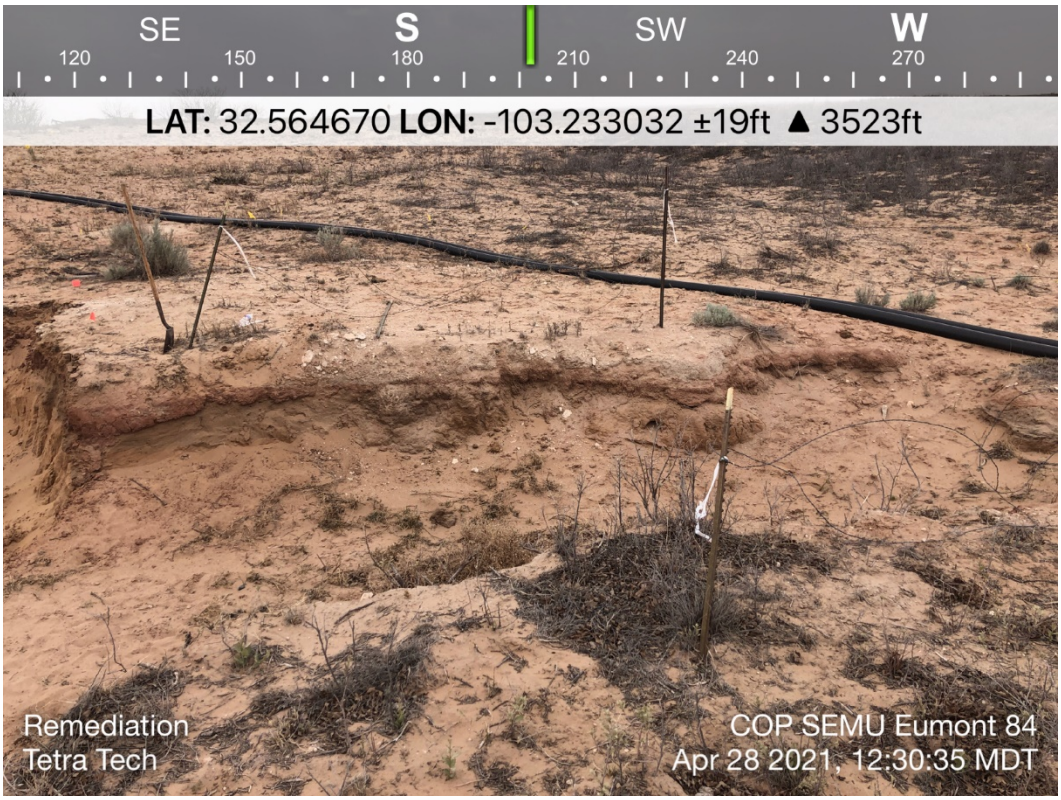
(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Sample Receipt Checklist

COC Seal Present/Intact: __Y__N If Applicable
COC Signed/Accurate: ✓Y__N VOA Zero Headspace: __Y__N
Bottles arrive intact: ✓Y__N Pres.Correct/Check: __Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N

APPENDIX D
Photographic Documentation

TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View southeast of the release area, ~4' excavation and surface flowline.	1
	SITE NAME	SEMU Eumont #84 Release	4/28/2021

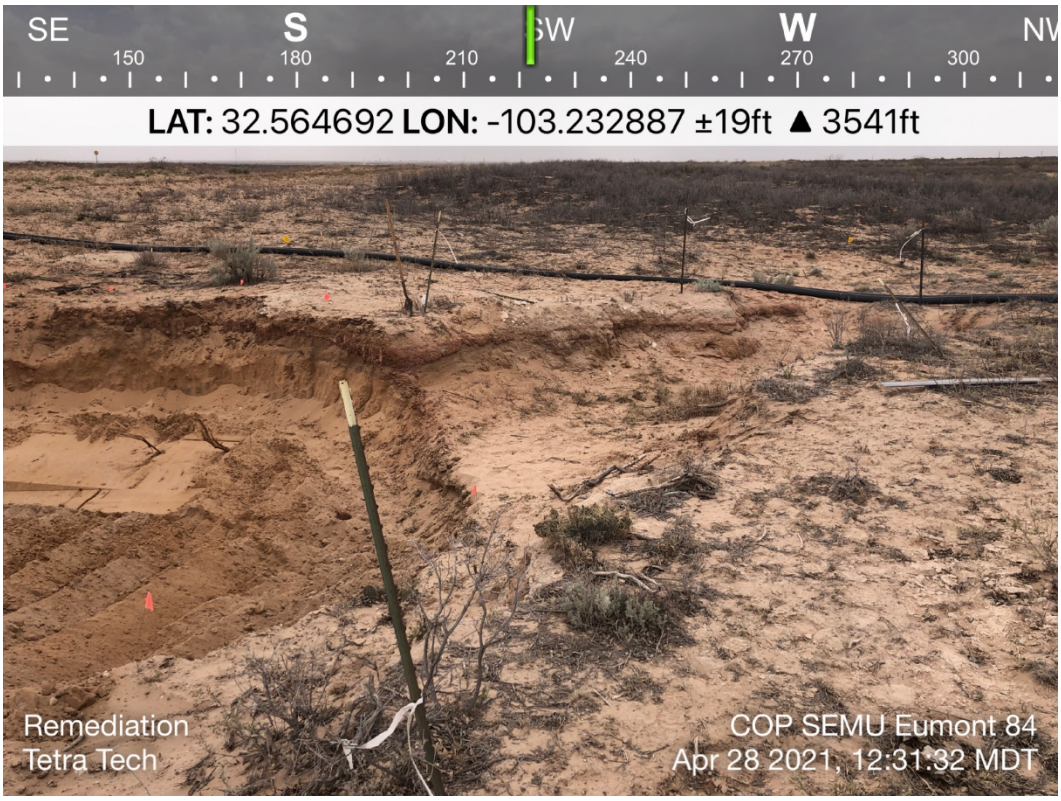


TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View south southwest of the wester most release area, ~2' excavation and surface flowline.	2
	SITE NAME	SEMU Eumont #84 Release	4/28/2021

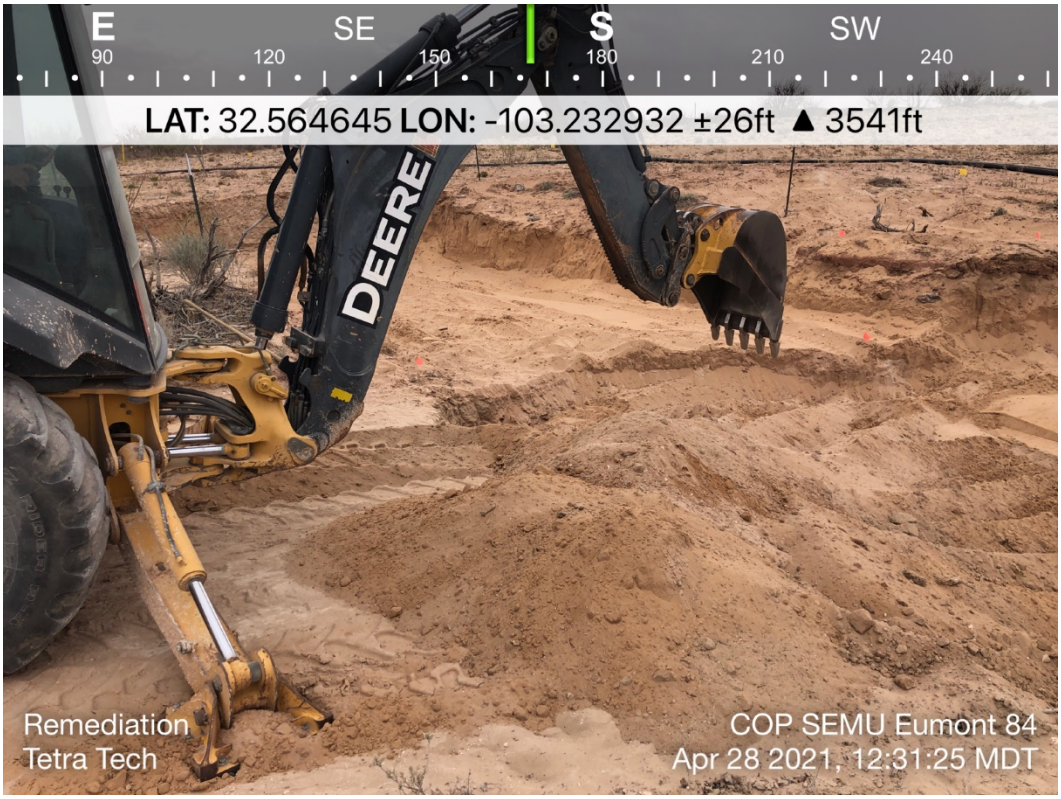
TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View southeast of the release area, ~4' excavation and surface flowline.	3
	SITE NAME	SEMU Eumont #84 Release	4/28/2021

TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View south southeast of the release area, ~4' excavation and surface flowline.	4
	SITE NAME	SEMU Eumont #84 Release	4/28/2021

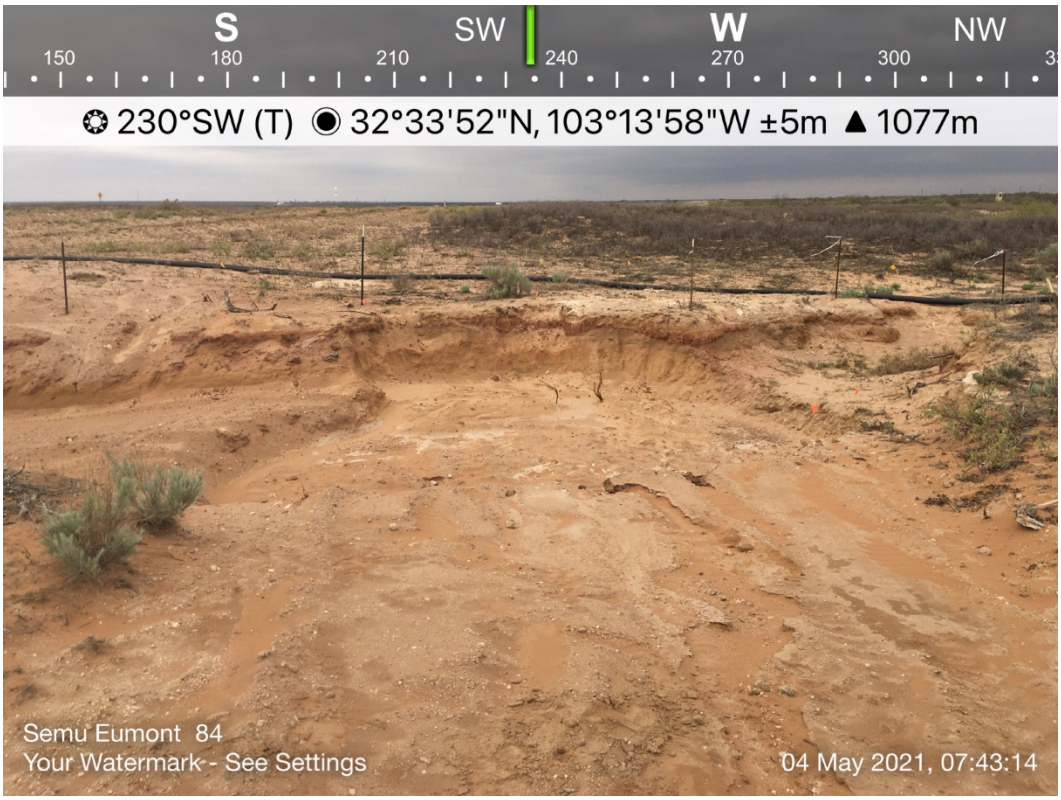
TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View south southwest of the release area, ~2-4' excavation, and surface flowline.	5
	SITE NAME	SEMU Eumont #84 Release	4/28/2021



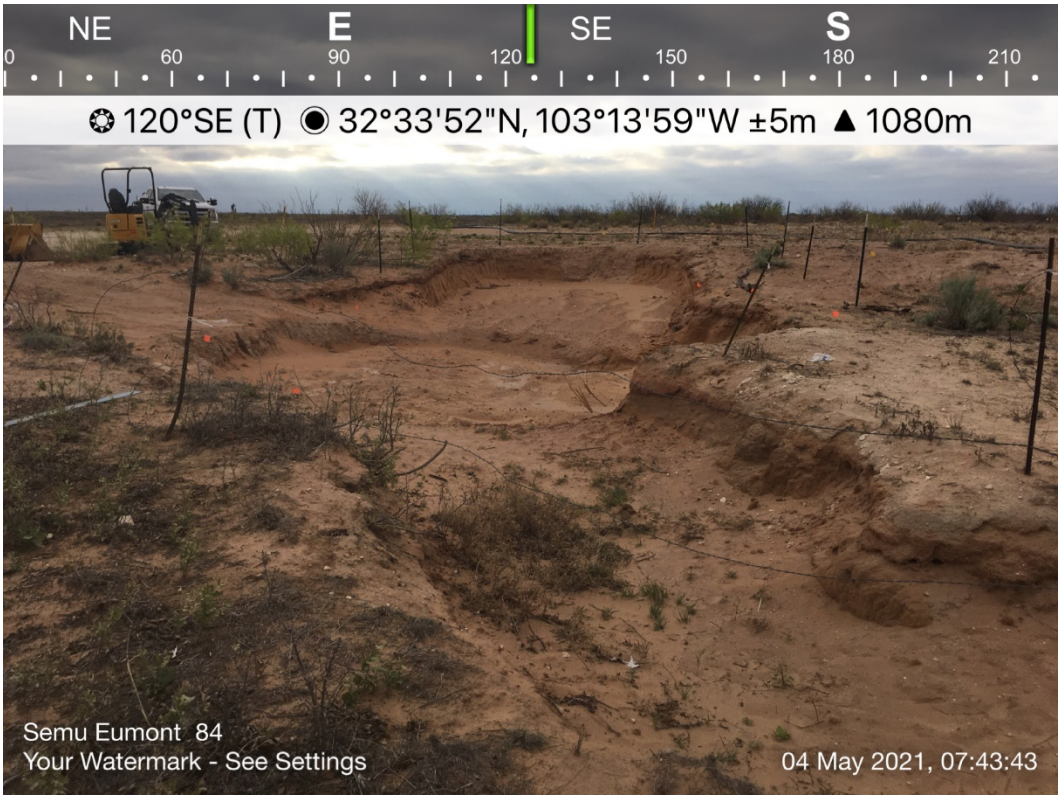
TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View southwest of the western most release area, ~2' excavation and surface flowline.	6
	SITE NAME	SEMU Eumont #84 Release	4/28/2021



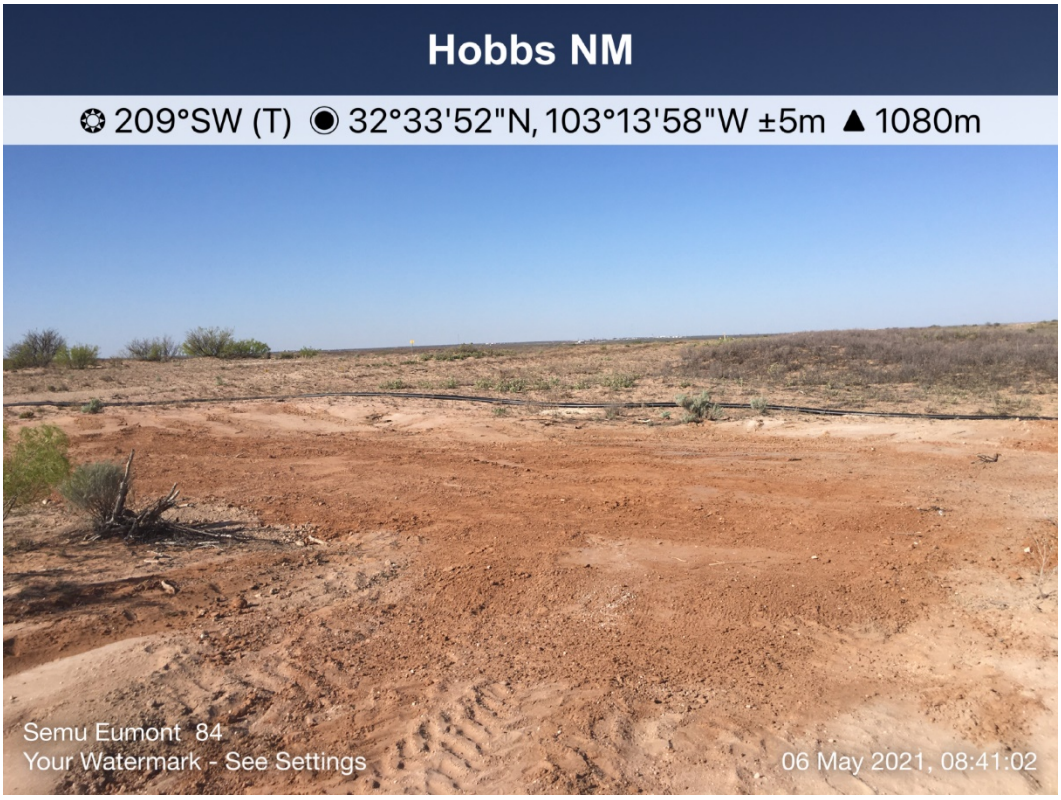
TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View south of the release area, ~4' excavation, and surface flowline.	7
	SITE NAME	SEMU Eumont #84 Release	4/28/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View southwest of the release area, ~2-4' excavation and surface flowline.	8
	SITE NAME	SEMU Eumont #84 Release	5/4/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View southeast of the release area and ~2-4' excavation.	9
	SITE NAME	SEMU Eumont #84 Release	5/4/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02480	DESCRIPTION	View southwest of the backfilled release area and surface flowline.	10
	SITE NAME	SEMU Eumont #84 Release	5/6/2021

APPENDIX E
Waste Manifests

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	JOE TYLER
AFE #:	
PO #:	
Manifest #:	01
Manif. Date:	4/28/2021
Hauler:	MCNABB PARTNERS
Driver	JESUS
Truck #	M31
Card #	
Job Ref #	

Ticket #:	700-1208106
Bid #:	O6UJ9A000HH0
Date:	4/28/2021
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	06239
Well Name:	SEMU EUMONT
Well #:	~~068~~ 084
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ 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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	JOE TYLER
AFE #:	
PO #:	
Manifest #:	02
Manif. Date:	4/28/2021
Hauler:	MCNABB PARTNERS
Driver	JESUS
Truck #	M31
Card #	
Job Ref #	

Ticket #:	700-1208161
Bid #:	O6UJ9A000HH0
Date:	4/28/2021
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	20654
Well Name:	SEMU EUMONT
Well #:	084
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X 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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	JOE TYLER
AFE #:	
PO #:	
Manifest #:	03
Manif. Date:	4/28/2021
Hauler:	MCNABB PARTNERS
Driver	JESUS
Truck #	M31
Card #	
Job Ref #	

Ticket #:	700-1208188
Bid #:	O6UJ9A000HH0
Date:	4/28/2021
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	20654
Well Name:	SEMU EUMONT
Well #:	084
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X 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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__ 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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-1208192
Customer #:	CRI2190	Bid #:	O6UJ9A000HH0
Ordered by:	JOE TYLER	Date:	4/28/2021
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	04	Well Ser. #:	20654
Manif. Date:	4/28/2021	Well Name:	SEMU EUMONT
Hauler:	MCNABB PARTNERS	Well #:	084
Driver	CODY	Field:	
Truck #	M02	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

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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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	JOE TYLER
AFE #:	
PO #:	
Manifest #:	05
Manif. Date:	4/29/2021
Hauler:	MCNABB PARTNERS
Driver	JESUS
Truck #	M31
Card #	
Job Ref #	

Ticket #:	700-1208315
Bid #:	O6UJ9A000HH0
Date:	4/29/2021
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	20654
Well Name:	SEMU EUMONT
Well #:	084
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X 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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__ 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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-1208317
Customer #:	CRI2190	Bid #:	O6UJ9A000HH0
Ordered by:	JOE TYLER	Date:	4/29/2021
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	06	Well Ser. #:	20654
Manif. Date:	4/29/2021	Well Name:	SEMU EUMONT
Hauler:	MCNABB PARTNERS	Well #:	084
Driver	CODY	Field:	
Truck #	M02	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X 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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__ 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: _____

R360 ENVIRONMENTAL SOLUTIONS

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name Joe Tyler

Phone No.

GENERATOR

NO. 506625

Operator No.

Operators Name ConocoPhillips

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well Name & No. Jemy Element 8

County

API No.

Rig Name & No. N/A

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	NON-INJECTABLE WATERS		INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)		Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)		Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)		Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)		Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY		OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil ✓	Truck Washout (exempt waste)		Dump Truck
Gas Plant Waste			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS L - LIQUID 10 Y - YARDS E - EACH

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 load is (Check the appropriate classification)

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME DATE SIGNATURE

TRANSPORTER

Transporter's Name McNabb Paving

Address

Phone No.

Driver's Name Cody

Print Name

Phone No.

Truck No. 102

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE DRIVER'S SIGNATURE 5/4 DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. 2171

Site Name/ Permit No. Halfway Facility / NM1-006

Phone No. 575-393-1079

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT) DATE 5/4 TITLE SIGNATURE

TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Information

Name

Phone No.

GENERATOR

NO. 506625

Operator No.

Operators Name ConocoPhillips

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well Name & No. Jemy Elmont 84

County

API No.

Rig Name & No. N/A

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		INJECTABLE WATERS	
Oil Based Cuttings		Washout Water (Non-Injectable)		Washout Water (Injectable)	
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		Completion Fluid/Flow back (Injectable)	
Water Based Cuttings		Produced Water (Non-Injectable)		Produced Water (Injectable)	
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		Gathering Line Water/Waste (Injectable)	
Tank Bottoms		INTERNAL USE ONLY		OTHER EXEMPT WASTES (type and generation process of the waste)	
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		Drop Truck	
Gas Plant Waste					

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS L - LIQUID 10 Y - YARDS E - EACH

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 load is (Check the appropriate classification)

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME DATE SIGNATURE

TRANSPORTER

Transporter's Name McNabb Paving

Address

Phone No.

Driver's Name Cody

Print Name

Phone No.

Truck No. 402

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE 5/4 DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: OUT:

RECEIVING AREA Name/No. 2021

Site Name/ Permit No. Halfway Facility / NM1-006

Phone No. 575-393-1079

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

GM Mullins NAME (PRINT) 5/4 DATE Driver TITLE SIGNATURE

White - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Name _____

Phone No. _____

GENERATOR

NO. 506625

Operator No. _____ Permit/RRC No. _____

Operators Name _____ Lease/Well Name & No. _____

Address _____ County _____

_____ API No. _____

City, State, Zip _____ Rig Name & No. _____

Phone No. _____ AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Water Based Muds _____	Completion Fluid/Flow back (Non-Injectable) _____	Completion Fluid/Flow back (Injectable) _____
Water Based Cuttings	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms _____	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil _____	Truck Washout (exempt waste) _____	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

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 load is (Check the appropriate classification)

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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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

_____

☐ EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form)

_____ _____ _____

(PRINT) AUTHORIZED AGENTS NAME DATE SIGNATURE

TRANSPORTER

Transporter's Name _____ Driver's Name _____

Address _____ Print Name _____

_____ Phone No. _____

Phone No. _____ Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

_____ _____ _____ _____

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: _____ OUT: _____

RECEIVING AREA Name/No. _____

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

_____ _____ _____ _____

NAME (PRINT) DATE TITLE SIGNATURE

White - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-1209106
Customer #:	CRI2190	Bid #:	O6UJ9A000HH0
Ordered by:	JOE TYLER	Date:	5/4/2021
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	08	Well Ser. #:	20654
Manif. Date:	5/4/2021	Well Name:	SEMU EUMONT
Hauler:	MCNABB PARTNERS	Well #:	084
Driver	JOE	Field:	
Truck #	M81	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

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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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-1209143
Customer #:	CRI2190	Bid #:	O6UJ9A000HH0
Ordered by:	JOE TYLER	Date:	5/4/2021
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	049	Well Ser. #:	20654
Manif. Date:	5/4/2021	Well Name:	SEMU EUMONT
Hauler:	MCNABB PARTNERS	Well #:	084
Driver	JOE	Field:	
Truck #	M81	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	JOE TYLER
AFE #:	
PO #:	
Manifest #:	10
Manif. Date:	5/4/2021
Hauler:	MCNABB PARTNERS
Driver	CODY
Truck #	M02
Card #	
Job Ref #	

Ticket #:	700-1209144
Bid #:	O6UJ9A000HH0
Date:	5/4/2021
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	20654
Well Name:	SEMU EUMONT
Well #:	084
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X 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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__ 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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-1209198
Customer #:	CRI2190	Bid #:	O6UJ9A000HH0
Ordered by:	JOE TYLER	Date:	5/4/2021
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	11	Well Ser. #:	20654
Manif. Date:	5/4/2021	Well Name:	SEMU EUMONT
Hauler:	MCNABB PARTNERS	Well #:	084
Driver	JOE	Field:	
Truck #	M81	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

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

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ 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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	JOHN THURSTON
AFE #:	
PO #:	
Manifest #:	12
Manif. Date:	5/4/2021
Hauler:	MCNABB PARTNERS
Driver	CODY
Truck #	M02
Card #	
Job Ref #	

Ticket #:	700-1209215
Bid #:	O6UJ9A000HH0
Date:	5/4/2021
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	20654
Well Name:	SEMU EUMONT
Well #:	084
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	10.00	yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

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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: _____

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-1209400
Customer #:	CRI2190	Bid #:	O6UJ9A000HH0
Ordered by:	JOE TYLER	Date:	5/5/2021
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	13	Well Ser. #:	20654
Manif. Date:	5/5/2021	Well Name:	SEMU EUMONT
Hauler:	MCNABB PARTNERS	Well #:	084
Driver	CODY	Field:	
Truck #	M02	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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:

X 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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__ 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: _____

t6UJ9A01IK6Z

5/5/2021 11:13:46AM

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 34541

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 34541
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	1/26/2022