

ConocoPhillips, MCA 67; RP-4652

UL-L, Sec-21, T-17S, R-32E, Lea County New Mexico, DGW-'81'

On March 20, 2017 a leak was found on the MCA 67 from the casing on this well. It resulted in the release of 58.5 bbls. Of produced water with 55 bbls. Recovered. Covering approximately 31,000 square feet of COPC and COG pad area. Immediate action by COPC was to dig out all visibly wet contaminated material and dispose of contaminated material at an approved disposal. This resulted in approximately 1' of material being removed from location. Samples were taken on February 9th 2018 at 5 different spots (see attached map). Samples were all tested for chlorides and to 3' were tested for TPH and Btex for verification. Samples were sent to cardinal Lab. COPC proposes digging out an additional 6" or until clean (below 600ppm chlorides) in the sample #2, #3 and #4 areas (out lined in blue and green). This material will be disposed of at an approved disposal. We will then dig an additional 2.5' out in the area around #3 and #4 (outlined in blue) and put down a 40 mil plastic liner. The material dug out from around area #3 and #4 will be stockpiled and we sample every 50 yds. Of stockpiled soil and get lab verification to assure it is below 600 ppm chlorides and we will reuse this material as backfill on top of the liner. We will pull wall samples of the dug out area for lab verification that we have dug out all contaminated area horizontally. We will then backfill entire area with a clean base coarse. Please see attached map for planned excavation areas and depths.

APPROVED

By Olivia Yu at 10:02 am, Apr 02, 2018

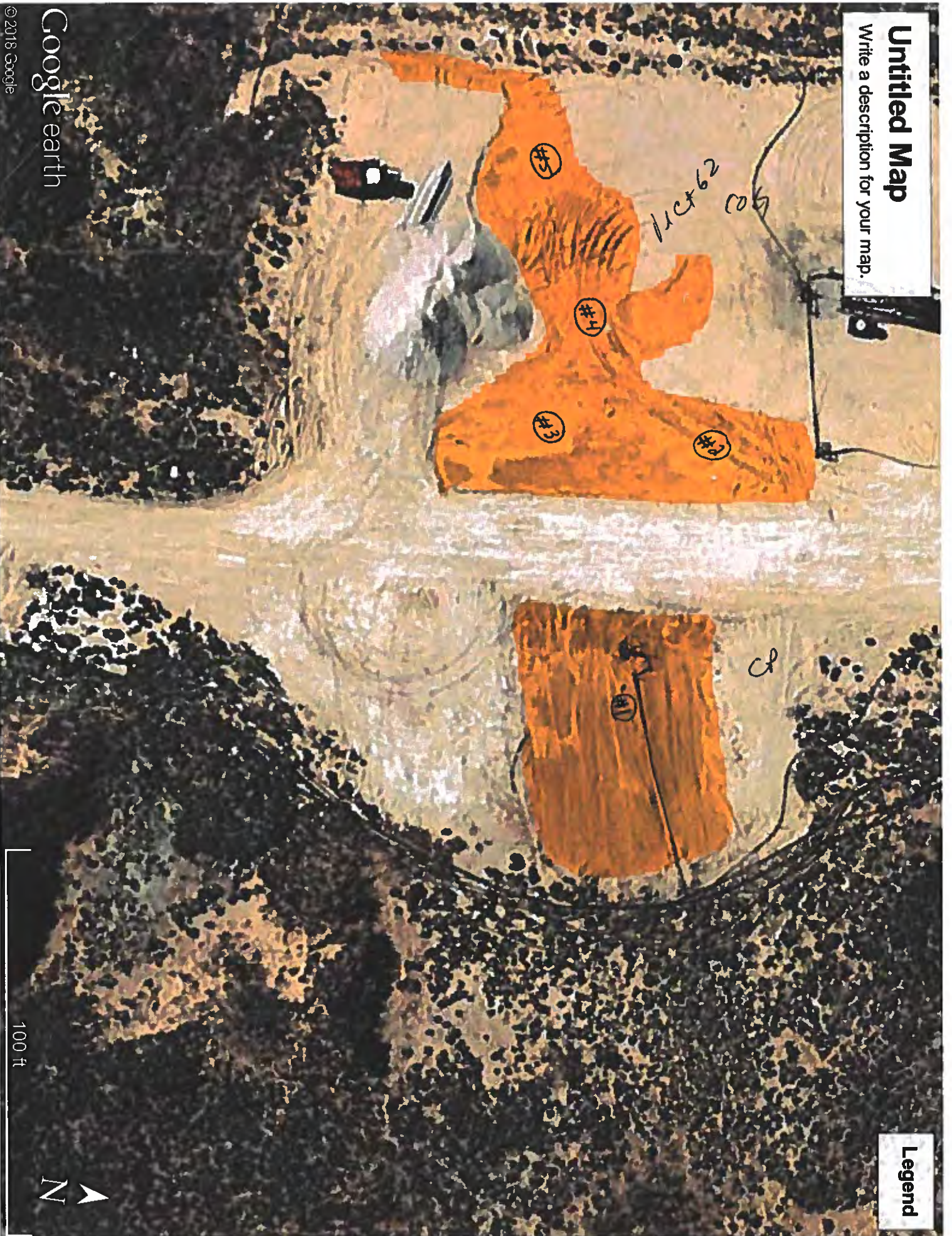
NMOCD approves of the delineation completed and proposed remediation for 1RP-4652 with these clarifications:

- 1) To complete release characterization, laboratory analysis of soil samples from the lateral extent of the release area (4 cardinal directions).
- 2) Laboratory analyses of stockpiled soil at every 50 cubic yards.
- 3) On a scaled map, outline area with properly keyed liner; mark release point and confirmation sample locations with GPS coordinates; and annotate areas with differing depths of excavation (or no excavation required).

Untitled Map

Write a description for your map.

Legend



Google earth

© 2018 Google

100 ft

N





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

February 16, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: MCA #67

Enclosed are the results of analyses for samples received by the laboratory on 02/09/18 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#1 - 1' (H800422-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/13/2018	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/13/2018	ND	214	107	200	1.66	
DRO >C10-C28*	<50.0	50.0	02/13/2018	ND	205	103	200	5.99	
EXT DRO >C28-C36	<50.0	50.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 78.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received: 02/09/2018
Reported: 02/16/2018
Project Name: MCA #67
Project Number: NONE GIVEN
Project Location: COPC - LEA COUNTY, NM

Sampling Date: 02/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP#1 - 3' (H800422-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2018	ND	1.62	80.9	2.00	6.60		
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59		
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90		
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17		
Total BTEX	<0.300	0.300	02/10/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/13/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/13/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<50.0	50.0	02/13/2018	ND	215	108	200	2.66	QM-07
EXT DRO >C28-C36	<50.0	50.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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Conoco Phillips - Hobbs
JUSTIN WRIGHT
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Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#1 - 5' (H800422-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/13/2018	ND	432	108	400	3.77		

Sample ID: SP#1 - 7' (H800422-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/13/2018	ND	432	108	400	3.77	

Sample ID: SP#1 - 9' (H800422-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/13/2018	ND	432	108	400	3.77		

Sample ID: SP#1 - 11' (H800422-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/13/2018	ND	432	108	400	3.77		

Sample ID: SP#1 - 13' (H800422-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/13/2018	ND	432	108	400	3.77	

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#2 - 1' (H800422-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTEx	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	02/13/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/13/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Analytical Results For:

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 JUSTIN WRIGHT
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 Fax To: (575) 297-1477

 Received: 02/09/2018
 Reported: 02/16/2018
 Project Name: MCA #67
 Project Number: NONE GIVEN
 Project Location: COPC - LEA COUNTY, NM

 Sampling Date: 02/09/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP#2 - 3' (H800422-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/13/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 99.4 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received: 02/09/2018
Reported: 02/16/2018
Project Name: MCA #67
Project Number: NONE GIVEN
Project Location: COPC - LEA COUNTY, NM

Sampling Date: 02/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP#2 - 5' (H800422-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 7' (H800422-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 9' (H800422-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 11' (H800422-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 13' (H800422-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/14/2018	ND	416	104	400	0.00	

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JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received: 02/09/2018
Reported: 02/16/2018
Project Name: MCA #67
Project Number: NONE GIVEN
Project Location: COPC - LEA COUNTY, NM

Sampling Date: 02/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP#3 - 1' (H800422-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#3 - 3' (H800422-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEX	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#3 - 5' (H800422-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/14/2018	ND	416	104	400	0.00		

Sample ID: SP#3 - 7' (H800422-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#3 - 9' (H800422-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	02/14/2018	ND	416	104	400	0.00		

Sample ID: SP#3 - 11' (H800422-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#3 - 13' (H800422-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/14/2018	ND	416	104	400	0.00	

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received: 02/09/2018
Reported: 02/16/2018
Project Name: MCA #67
Project Number: NONE GIVEN
Project Location: COPC - LEA COUNTY, NM

Sampling Date: 02/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP#4 - 1' (H800422-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEx	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	02/14/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#4 - 3' (H800422-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTX	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received: 02/09/2018
Reported: 02/16/2018
Project Name: MCA #67
Project Number: NONE GIVEN
Project Location: COPC - LEA COUNTY, NM

Sampling Date: 02/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP#4 - 5' (H800422-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/14/2018	ND	416	104	400	0.00		

Sample ID: SP#4 - 7' (H800422-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#4 - 9' (H800422-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/14/2018	ND	416	104	400	0.00		

Sample ID: SP#4 - 11' (H800422-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#4 - 13' (H800422-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/14/2018	ND	416	104	400	0.00	

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#5 - 1' (H800422-29)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEx	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/14/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#5 - 3' (H800422-30)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTX	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/14/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#5 - 5' (H800422-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 7' (H800422-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 9' (H800422-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/14/2018	ND	432	108	400	0.00		

Sample ID: SP#5 - 11' (H800422-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 13' (H800422-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/14/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



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

Page ____ of ____

Company Name: <u>Conoco Phillips</u>		P.O. #:		BILL TO																			
Project Manager: <u>Justin Wright</u>		Company:		ANALYSIS REQUEST																			
Address:		Attn:																					
City: <u>Hobbs</u>		Address:																					
Phone #: <u>505-284-8840</u>		City:																					
Fax #: <u>505-284-8840</u>		State:																					
Project #: <u>MEC 6.7</u>		Zip:																					
Project Name: <u>MEC 6.7</u>		Project Owner: <u>CORC</u>																					
Project Location: <u>Lea County, NM</u>		State:																					
Sample Name: <u>Justin Wright</u>		Phone #:																					
FOR LAB USE ONLY		Fax #:																					
Lab I.D. <u>H800422</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING											
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME											
1 SP#1-1'		C		✓		✓		✓		✓		2-9-18		✓ CHLORIDES									
2 SP#1-3'		C		✓		✓		✓		✓		2-9-18		✓ TPH									
3 SP#1-5'		C		✓		✓		✓		✓		2-9-18		✓ BTEX									
4 SP#1-7'		C		✓		✓		✓		✓		2-9-18											
5 SP#1-9'		C		✓		✓		✓		✓		2-9-18											
6 SP#1-11'		C		✓		✓		✓		✓		2-9-18											
7 SP#1-13'		C		✓		✓		✓		✓		2-9-18											
8 SP#2-1'		C		✓		✓		✓		✓		2-9-18											
9 SP#2-3'		C		✓		✓		✓		✓		2-9-18											
10 SP#2-5'		C		✓		✓		✓		✓		2-9-18											
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Sampler Relinquished:		Date: <u>2-9-18</u>		Received By: <u>Jawara</u>		Phone Result: <input type="checkbox"/>		No		Add'l Phone #:													
Relinquished By: <u>Justin Wright</u>		Time: <u>11:00 AM</u>		Date: <u>2-9-18</u>		Fax Result: <input type="checkbox"/>		No		Add'l Fax #:													
Delivered By: (Circle One) <u>1.6c</u>		Temp. <u>1.6c</u>		Sample Condition <u>Intact</u>		CHECKED BY: <u>72-#15</u>																	
Sampler - UPS - Bus - Other: <u>Delivered 1.6c</u>		Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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101 East Marland, Hobbs, NM 88240
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Page ____ of ____

Company Name: Conoco Phillips		P.O. #: COB		BILL TO							
Project Manager: Joshua Wright		Company:		ANALYSIS REQUEST							
Address:		Attn:									
City: Hobbs		Address:									
Phone #: 575-631-9082		City:									
Fax #: 575-631-9082		State:									
Project #: Project Owner: COB		Zip:									
Project Name: MCR 67		Phone #:									
Project Location: Lea County, NM		Fax #:									
Sampler Name: Joshua Wright											
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CHLORIDES	TPH	BTEX
H800422											
11	SP#2-7'	G	✓	✓	✓	✓	2-9-18		✓		
12	SP#2-9'	G	✓	✓	✓	✓	2-9-18		✓		
13	SP#2-11'	G	✓	✓	✓	✓	2-9-18		✓		
14	SP#2-13'	G	✓	✓	✓	✓	2-9-18		✓		
15	SP#3-1'	G	✓	✓	✓	✓	2-9-18		✓		
16	SP#3-3'	G	✓	✓	✓	✓	2-9-18		✓		
17	SP#3-5'	G	✓	✓	✓	✓	2-9-18		✓		
18	SP#3-7'	G	✓	✓	✓	✓	2-9-18		✓		
19	SP#3-9'	G	✓	✓	✓	✓	2-9-18		✓		
20	SP#3-11'	G	✓	✓	✓	✓	2-9-18		✓		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Delivered By: (Circle One) 1.6c	Temp.	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: Consent 1.8c		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	70-175
Relinquished By: [Signature]	Date: 2-9-18	Received By: [Signature]	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: [Blank]
	Time: 11:00		Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: [Blank]
REMARKS:			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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Company Name: <u>Conoco Phillips</u> Project Manager: <u>Justin Wright</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: <u>505-631-9092</u> Fax #: Project #: Project Owner: <u>COPC</u> Project Name: <u>MCA 67</u> City: Project Location: <u>Lea County, NM</u> State: Zip: Sampler Name: <u>Justin Wright</u> Phone #: FOR LAB USE ONLY Fax #:				BILL TO P.O. #: <u>COPC</u> Company: Attn: Address: City: State: Zip:				ANALYSIS REQUEST			
Lab I.D. <u>A800422</u> Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		MATRIX PRESERV. SAMPLING		DATE		TIME		CHLORIDES TPH BTEX	
21	SP#3-13'	G					2-9-18				
22	SP#4-1'	G					2-9-18				
23	SP#4-3'	G					2-9-18				
24	SP#4-5'	G					2-9-18				
25	SP#4-7'	G					2-9-18				
26	SP#4-9'	G					2-9-18				
27	SP#4-11'	G					2-9-18				
28	SP#4-13'	G					2-9-18				
29	SP#5-1'	G					2-9-18				
30	SP#5-3'	G					2-9-18				

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Sampler Relinquished: [Signature] **Date:** 2-9-18 **Received By:** [Signature] **Time:** 1:00 PM

Relinquished By: [Signature] **Date:** 2-9-18 **Received By:** [Signature] **Time:**

Delivered By: (Circle One) 1.60 **Temp.** **Sample Condition** **CHECKED BY:** [Signature]

Sampler - UPS - Bus - Other: Refrigerated 1.85C ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No ☐ No ☐ No ☐ No

REMARKS:

Phone Result: ☐ **No** **Add'l Phone #:**

Fax Result: ☐ **No** **Add'l Fax #:**

Terms and Conditions: Invoiced will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.



CARDINAL LABORATORIES

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Company Name: ConocoPhillips		P.O. #:		BILL TO					
Project Manager: Justin Wright		Company: COPL		ANALYSIS REQUEST					
Address:		Attn:							
City: Hobbs		Address:							
State: NM Zip: 88240		City:							
Phone #: _____		State:							
Fax #: _____		Zip:							
Project #: _____		Phone #:							
Project Name: MCH 67		Fax #:							
Project Location: Lea County, NM									
Sampler Name: Justin Wright									
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CHLORIDES
AS00422	31 SP#5-5'	G	1	GROUNDWATER	✓	2-9-18	2-9-18	✓	✓
	32 SP#5-7'	G	1	WASTEWATER	✓	2-9-18	2-9-18	✓	✓
	33 SP#5-9'	G	1	SOIL	✓	2-9-18	2-9-18	✓	✓
	34 SP#5-11'	G	1	OIL	✓	2-9-18	2-9-18	✓	✓
	35 SP#5-13'	G	1	SLUDGE	✓	2-9-18	2-9-18	✓	✓
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.									
Sampler Relinquished: _____ Date: 2-9-18 Received By: _____									
Relinquished By: _____ Date: 2-9-18 Received By: Janessa Chavez									
Time: _____									
Delivered By: (Circle One) 1.6c Temp. _____ Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No									
Sampler - UPS - Bus - Other: Consistent 1.85 <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No									
CHECKED BY: (Initials) 70. #75									
REMARKS: _____									
Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.									
Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____									
Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____									

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



