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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-5017
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party	ConocoPhillips		OGRID	
Contact Name	Jose A Zepeda		Contact Tele	lephone 575-391-3165
Contact email	jose.a.zepeda@cond	ocophillips.com	Incident # (a	assigned by OCD)
Contact mailing ac	Idress 1410 N West Co			
		Location (	of Release So	ource
Latitude	32,4173279	(NAD 83 in deci	Longitude _ mal degrees to 5 decima	-103.8466568 al places)
Site Name Jame	 ∋s A #012		Site Type	Injection Line
	overed 08/24/18 0900		API# (if appli	licable)
II. it I attan   Co	ction Township	Range	Count	ty
Unit Letter Se	2 228	30E	Eddy	<u> </u>
	State   Federal   T	Nature and	Volume of R	justification for the volumes provided below)
Crude Oil	Volume Release	ed (bbls)		Volume Recovered (bbis)
✓ Produced Wat	er Volume Releas	ed (bbls) 89		Volume Recovered (bbls) 55
	Is the concentra	tion of total dissolv water >10,000 mg/	red solids (TDS)	✓ Yes □ No
Condensate	Volume Releas			Volume Recovered (bbls)
☐ Natural Gas	Volume Releas	ed (Mcf)		Volume Recovered (Mcf)
Other (describ	e) Volume/Weigh	t Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Release James A 12 Injection resulting in a release per COPC and NM	e of 89 bbl. of produced wa	n August 23, 2018 at ter with 55 bbl. recov	0930 hrs. at James A ered. Immediate actio	12 a leak was found on the discharge line to injection well on was to shut in line to stop spill. Spill site will be remediated

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State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

## Responsible Party

Responsible Party Co	onocoPhillips		OGRID	
Contact Name Jose	e A Zepeda		Contact Tel	lephone 575-391-3165
	.a.zepeda@cono	cophillips.com	Incident # (d	(assigned by OCD)
Contact mailing address				
		Location o	f Release So	ource
Latitude		(NAD 83 in decim	Longitude _ nal degrees to 5 decim	nal places)
Site Name James A \	 Water Flood		Site Type	Tank Battery
Date Release Discovered			API# (if appl	plicable)
Unit Letter Section 2	Township 22S	Range 30E	Count	<u> </u>
	ial(s) Released (Select al	Nature and		justification for the volumes provided below)
Crude Oil	Volume Release	d (bbls)		Volume Recovered (bots)
✓ Produced Water	Volume Release	•		Volume Recovered (bbls) 25
	Is the concentrat	ion of total dissolve water >10,000 mg/l	ed solids (TDS) 1?	Yes No
Condensate	Volume Release	d (bbls)	<del></del>	Volume Recovered (bbls)
Natural Gas	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (describe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Release On August 30, 2018 at resulting in a release of be remediated per COP	33 bbl. of produced	l water with 25 bbl.	nk overflowed who recovered. Imme	nen injection station lost power during thunderstorm ediate action was to shut in line to stop spill. Spill site will

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State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

		Respo	nsible Part	y				
Responsible Party Conoc	oPhillips		OGRID 2	17817				
Contact Name Justin Wr			Contact T	Contact Telephone +1-575-631-9092				
Contact email Justin.Wri		s.com	Incident #	Incident # (assigned by OCD)				
Contact mailing address			 N					
Contact maning and								
		Location of	of Release S	ource				
32,41692			Longitude	-103.84735				
Latitude		(NAD 83 in dech	mal degrees to 5 deci	mal places)				
Site Name: James A Wa	aterfld		Site Type	: Water flood				
Date Release Discovered			API# (if ap	pplicable) 3001536761				
Unit Letter Section	Township	Range		intyldy				
P 2	228	30E		idy				
		Nature and	Volume of	ı				
	iai(s) Released (Select a	II that apply and attach o	calculations or specif	volume Recovered (bbls)				
				Volume Recovered (bbls) 23				
≥ Produced Water		<b>A</b> (00.0)	ploride in the	▼ Yes				
	produced water	>10,000 mg/17						
Condensate	Volume Release	ed (bbls)		Volume Recovered (bbls)				
P 2 22S 30E  Surface Owner: State ☐ Federal ☐ Tribal ☐ Private  Nature an  Material(s) Released (Select all that apply and attact ☐ Crude Oil Volume Released (bbls)  ☑ Produced Water Volume Released (bbls) ☐ Is the concentration of dissolved produced water >10,000 mg/1? ☐ Condensate Volume Released (bbls) ☐ Natural Gas Volume Released (Mcf) ☐ Other (describe) Volume/Weight Released (province of Released (province of Released)  Cause of Release		ed (Mcf)		Volume Recovered (Mcf)				
Other (describe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)				
Cause of Release								
Failed 3/8" Stainless tul	bing attached to the	injection pump						

District I
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State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	<u> </u>
Application ID	<u></u>

## **Release Notification**

### Responsible Party

			Kespo	ilipinic i ai ch					
Responsible P	arty Conocc	Phillips		OGRID 21	7817				
Contact Name				Contact Tel	Contact Telephone +1-575-631-9092				
		ht@conocophillip	s.com	Incident # (	Incident # (assigned by OCD)				
			ex Lane, Lovingto	<u> </u>					
		•	<u>-</u>	<del></del>					
			Location of	of Release So	ource				
	2.41692			Longitude _	-103.84735				
Latitude	_ <del></del>		(NAD 83 in deci	mal degrees to 5 decim	al places)				
Site Name: J	ames A Wat	terfld		Site Type:	Water flood				
					licable) 3001536761				
Unit Letter	Section	Township	Range	Coun	_ <del>`</del>				
P	2	22S	30E	Edo					
Surface Owner		ıl(s) Released (Select al	I that apply and attach	Volume of	Release  justification for the volumes provided below)  Volume Recovered (bbls)				
Crude Oil	i	Volume Release							
□ Produced	Water	Volume Release			V Oldino 1000 volve (0110)				
		Is the concentrate produced water	tion of dissolved c	hloride in the	⊠ Yes ☐ No				
Condensa		Volume Release	ed (bbls)		Volume Recovered (bbls)				
Natural C		Volume Release	ed (Mcf)		Volume Recovered (Mcf)				
Other (de		•	Released (provide	e units)	Volume/Weight Recovered (provide units)				
Cause of Rel	failed which	h resulted in no co ank to overflow	mmunications at th	ne facility. Due to	no communications, MSO was unable to receive a high-				

# **Corrective Action Plan.**

<del></del> I.	Operator information	<del></del>						
<u></u> A.	Company Name: Cono			OGRID # 217817	7			
д. В.	Company Official Cont			rs.				
	ne: Justin Wright		_ <del></del> _					
	: Projects, Lead	<del></del> -	<del>_</del>					
	ing Address:							
	Buckeye	<del></del>	State: NM		ZIP Code:			
	ne: +1-575-631-9092			Email: Justin.Wr	ight@conocor			
	Site Information		<u> </u>					
II. 	Name and Type of Fac							
	Name: James A #12—2 erflood—2RP-		d James A	RP#:2RP-5017				
Sect	tion: 36	Blk: UL-B		Township 17S		County: Lea		
	tude: 32.79757687			Longitude:-103	.614502			
	Environmental Sensitive	 area:						
	und water depth:410'							
Nea	arest Water Well:	<del> </del>			_			
	arest Water Of The US (\	 WOTUS):						
III.	Remediation Plan	<u> </u>						
A.	Incident summary:							
<b> </b>	terial released: PW		Amount release	ed: See below	Amount I	Recovered: see below		
On reco	August 24th 2018 a leak overed. Then on August duced water with 25 bein in the location. We excav inples came back below s he James A Water Flood overed. Then on April 4th 12bbls. of produced water cavated out from the prevenced.	30th 2018 a ng recovered vated approxi standard acc d on an inject h 2019 anoth er being releavious 2 leaks	tank over flower initial response imately 2' of the ording to the detion pump causiner leak occurreased with 43.32. The last 2 leak	d at the same location was to do a one can leak area. We then the spth of ground water, and the release of 32 lead when a tank overflet bbls, being recovered stayed close to the	Il and begin extook 39 sampl On March 3rd bbls. Of productioned at the Jack dowed at the Jack et anks and the	es from a depth of 2' to 8'. All a 2019 another leak occurred aced water with 23 bbls. ames A Battery resulting in ran into areas already a saturated soils have been		
<b>B</b> . we	Remediation Plan: Co will resample areas aroundard we will proceed to	und SP#1 an	d SP#6-SP#9. (	Once those samples	nave been co	#10-SP#39. In the meantime nfirmed by a lab to be below lits have been included.		

I.	Operator information	



## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD Sub-		n	Q	O								Water
POD Number	Code		County	_	16	4				X	Y	DistanceDeptl 2161	iWellDepthWater	Column
C 03234 EXPLORE		CUB	ED	1	2	3	35	218	30E	607695	3589207*	2101	410	
C_03003		CUB	ED	3	ı	3	31	21\$	31E	610511	3588970* 🛍	2802	650	
C 02749		CUB	ED	1	1	1	18	228	31E	610556	3585146*	2965	640	
C 02750		CUB	ED	1	I	1	18	22S	31E	610556	3585146* 🍪	2965	741	
C 02751		CUB	ED	1	1	I	18	22S	31E	610556	3585146* 🌥	2965	637	
C 02723		CUB	ED	2	2	3	15	22S	30E	606282	3584363* 🌇	3489	651	
C 03002		CUB	ED	4	2	4	06	22S	31 <b>E</b>	611933	3587375* 🖀	3564	668	
C 02950 EXPL		CUB	ED	4	2	4	23	225	30E	608740	3582576*	4593	845	
C 02637		CUB	ED	i	3	3	24	228	30E	608950	3582377*	4812	759	

Average Depth to Water: Minimum Depth:

Maximum Depth.

Record Count: 9

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 608375.24

Northing (Y): 3587155

Radius: 5000

\*UTM location was derived from PLSS - see Help

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

WATER COLUMN/ AVERAGE DEPTH TO

4/17/19 4:20 PM

# Write a description for your map. James A Waterflood Legend Polygon Measure



October 23, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: JAMES A WATERFLOOD

Enclosed are the results of analyses for samples received by the laboratory on 10/18/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 <a href="https://www.tceq.texas.gov/field/qa/lab-accred\_certif.html">www.tceq.texas.gov/field/qa/lab-accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celeg D. Kune

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,

Celey D. Keene

Lab Director/Quality Manager



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number: Project Location: NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP # 1 - 2' (H803006-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	10/19/2018	ND	448	112	400	3.64	
Sample ID: SP # 1 - 4' (H8	303006-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/19/2018	ND	448	112	400	3.64	
Sample ID: SP # 1 - 6' (H8	803006-03)								
Chloride, SM4500CI-B	500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/19/2018	ΝD	448	112	400	3.64	
Sample ID: SP # 1 - 8' (H8	803006-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/19/2018	ND	<del>44</del> 8	112	400	3.64	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Libbility and Damages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tart, shall be limited to the amount paid by client for 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 thiny (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 subdidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

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Fax To:

(575) 297-1477

Received:

10/18/2018

Sampling Date:

10/16/2018

Reported:

10/23/2018

Sampling Type:

Soil

Project Name:

JAMES A WATERFLOOD

Sampling Condition:

Cool & Intact

Project Number:

Analyte

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

COPC - EDDY CO NM

Sample ID: SP # 2 - 2' (H803006-05)

mg/kg

Analyzed By: AC

BS

448

True Value QC

Chloride

Result 5200 Reporting Limit 16.0

Analyzed 10/19/2018 ND

Method Blank

112

% Recovery

400

Qualifier

RPD

3.64

RPD

Sample ID: SP # 2 - 4' (H803006-06)

mg/kg

6960

Analyzed By: AC

Analyte

Result

Analyzed Reporting Limit 16.0 10/19/2018 Method Blank ND

BS 416 True Value QC 400

Qualifier

Analyzed By: AC

Analyzed

% Recovery

104

3.92

Sample ID: SP # 2 - 6' (H803006-07)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Qualifler

Chloride

Chloride

Chloride

Chloride

Result 7520

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16,0

10/19/2018

ND

Method Blank

RS 416 % Recovery 104

True Value QC

RPD

3.92

Analyzed By: AC

400

Sample ID: SP # 2 - 8' (H803006-08)

Chloride, SM4500CI-B

mg/kg

Result

7360

Result

384

Analyzed

10/19/2018

Analyzed

10/19/2018

Method Blank

ND

BS

% Recovery

True Value QC

RPD

Qualifler

ND

416

416

104

400

Sample ID: SP # 3 - 2' (H803006-09)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC Method Blank

BS

% Recovery

104

True Value QC

400

RPD

3.92

3.92

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & trans

Celey D. Keene, Lab Director/Quality Manager



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Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 3 - 4' (H803006-10)

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD 3.92 Qualifier

Chloride

3040

Result

2800

16.0

Reporting Limit

16.0

10/19/2018

ND

Method Blank

ND

416

BS

104

Sample ID: SP # 3 - 6' (H803006-11)

Chloride,	SM4500Cl-B

Analyte

Analyte

mg/kg

Analyzed By: AC

% Recovery

True Value QC

Qualifier

Chloride

Analyzed 10/19/2018

416

BS

104

400

400

3.92

Sample ID: SP # 3 - 8' (H803006-12)

Chloride, SM4500Cl-B

Analyzed By: AC

Result

Reporting Limit

Analyzed

Method Blank

BS

% Recovery

RPD

Qualifier

Chloride

3600

16.0

10/19/2018

ND

True Value QC

RPD

Jumpic	10.	٠.	"	•
Chloride,	SM4	5000	CI-B	

mg/kg

416

104

400

3,92

Sample ID: SP # 4 - 2' (H803006-13)

Analyte

Result

48.0

Result

880

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

RPD

3.92

Qualifier

Chloride

Chloride

Chloride, SM4500CI-B

mg/kg

10/19/2018

Analyzed

10/19/2018

ND

Method Blank

ND

416

104

400

3.92

Sample ID: SP # 4 - 4' (H803006-14)

Analyzed By: AC

BS

416

% Recovery

104

True Value QC

400

Oualifier

Analyte

\*=Accredited Analyte

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Celey D. Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 30



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Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

Analyte

Analyte

Project Location:

NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

10/16/2018

Jodi Henson

Sample ID: SP # 4 - 6' (H803006-15)

Chloride, SM4500Cl-B

mg/kg

Method Blank

BS

% Recovery

True Value QC

Qualifier RPD

3,92

Chloride

Chloride

Chloride

Result 2880 Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 10/19/2018

Analyzed

10/19/2018

ND

416

104

% Recovery

104

400

Sample ID: SP # 4 - 8' (H803006-16)

Chloride,	SM4500CI-B

mg/kg Result

368

Analyzed By: AC

Analyzed By: AC

Method Blank ND

BS

416

True Value QC

RPD

Qualifier

Sample ID: SP # 5 - 2' (H803006-17)

Chloride, SM4500CI-B

Analyzed By: AC

104

400

400

Analyte

Reporting Limit Result

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed

10/19/2018

Analyzed

Analyzed

10/19/2018

Method Blank ND

BS

416

416

BS

416

True Value OC % Recovery

RPD 3.92

3.92

Qualifier

Sample ID: SP # 5 - 4' (H803006-18)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

8S

% Recovery True Value QC

RPD

Qualifler

Chloride

Result 720

Result

848

112

16.0

10/19/2018

Method Blank ND

104

400

3,92

Sample ID: SP # 5 - 6' (H803006-19)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

104

True Value QC

400

RPD

3.92

Qualifier

Chloride

Cardinal Laboratories

Analyte

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Celeg D. Kenn

Celey D. Keene, Lab Director/Quality Manager



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Fax To:

(575) 297-1477

Received: Reported: 10/18/2018

10/23/2018

JAMES A WATERFLOOD

Project Name: Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/16/2018

Sample ID: SP # 5 - 8' (H803006-20)

Chlorido	SM4500C1	_0

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

192

Analyzed

10/19/2018

Analyzed

Method Blank ND

BS 416 % Recovery 104

True Value QC

RPD

Sample ID: SP # 6 - 2' (H803006-21)

Reporting Limit

16.0

Analyzed By: AC

400

True Value QC

400

3.92

Qualifier

Analyte

Result 3600

mg/kg

mg/kg

10/19/2018 16.0

Method Blank ND

BS 416 % Recovery

RPD 3.92 Qualifier

Sample ID: SP # 6 - 4' (H803006-22)

Chloride, SM4500CI-B

Analyte

Analyte

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Analyzed By: AC

104

Qualifier

Chloride

Result

3440

16.0

Analyzed 10/19/2018 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

Sample ID: SP # 6 - 6' (H803006-23)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

BŞ Method Blank

% Recovery

True Value QC

RPD

3,92

Qualifier

Chloride

3360

Result

16.0 10/19/2018 ND

416

BS

416

104

Sample ID: SP # 6 - 8' (H803006-24)

Chloride, SM4500CI-B

mg/kg

Result

2800

Analyzed

10/19/2018

Analyzed By: AC

Method Blank

ND

% Recovery

104

400

True Value QC

400

3.92

RPD

3,92

Qualifier

Chloride

Cardinal Laboratories

Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:

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Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Reporting Limit

16.0

Reporting Limit

16.0

Project Number:

Analyte

Analyte

Analyte

Analyte

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP # 7 - 2' (H803006-25)

Chloride.	SM4500CI-B
011101100	

Chloride

mg/kg

Result

432

Result

432

Analyzed By: AC

Method Blank

ND

% Recovery

104

% Recovery

100

True Value QC 400

RPD

Qualifier

Sample ID: SP # 7 - 4' (H803006-26)

Chloride, SM4500Cl-B	Chloride,	SM4500Cl-B	
----------------------	-----------	------------	--

mg/kg

Analyzed By: AC

8S

416

3.92

Chloride, SM4500Cl-B	
----------------------	--

Analyzed

10/19/2018

Analyzed

10/19/2018

Method Blank ND

BS 400 True Value QC

RPD

7.69

Qualifier

Sample ID: SP # 7 - 6' (H803006-27)

_		
Chlorida	SM4500CI-B	

mg/kg

Analyzed By: AC

Method Blank

Chloride

Chloride

736

Reporting Limit 16.0

Analyzed

ND

BS 400 % Recovery

RPD

Qualifier

Result

10/19/2018

100

True Value QC 400

400

7.69

Sample ID: SP # 7 - 8' (H803006-28)

-	
Chloride,	SM4500C1-B

mg/kg

Result

240

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

10/19/2018

Analyzed By: AC Method Blank

ND

True Value QC

RPD

Qualifier

Chloride

Chloride

Chloride,	SM4500CI-B
-	

Analyzed By: AC

ND

400

BS

100

% Recovery

100

% Recovery

400

7.69

Sample ID: SP # 8 - 2' (H803006-29)

mg/kg

Result

432

Analyzed

10/19/2018

Method Blank

BS

400

True Value QC

400

RPD Qualifier

7.69

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10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 8 - 4' (H803006-30)

Chloride,	SM4500CI-B
-----------	------------

mg/kg

Analyzed By: AC

Method Blank

BS % Recovery True Value QC

RPD

Chloride

Chloride

Result 256

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 10/19/2018

Analyzed

10/19/2018

ND

400

100

400

7.69

RPD

Qualifier

Sample ID: SP # 8 - 6' (H803006-31)

mg/kg

Result

240

Analyzed By: AC

BS

400

Qualifier

 •••	ъ.	 	 	_

mg/kg

Analyzed By: AC

% Recovery

100

True Value QC 400

7.69

Sample ID: SP # 8 - 8' (H803006-32)

Chloride, SM4500CI-B

Reporting Limit Result

16.0

Reporting Limit

16.0

Analyzed

Method Blank

Method Blank

ND

% Recovery

Qualifier

Chloride

Chloride

Chloride

320

Result

2080

Result

624

10/19/2018 16.0

ND

BS 400

100

True Value QC

RPD

10/19/2018

Method Blank

400

7.69

Sample ID: SP # 9 - 2' (H803006-33)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit Analyzed

Analyzed By: AC

BS

% Recovery

True Value QC

RPD

Qualifier

mg/kg

ND

ND

400

100

400

7.69

Sample ID: SP # 9 - 4' (H803006-34)

Chloride, SM4500Cl-B

Analyzed By: AC Analyzed

10/19/2018

Method Blank

BS

400

% Recovery

100

True Value QC

400

RPD

7.69

Qualifler

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JAMES A WATERFLOOD

Project Number:

Analyte

Analyte

Analyte

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 9 - 6' (H803006-35)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD 7.69 Qualifier

Chloride

Chloride

Chloride

Result 1380

Result

1390

Reporting Limit 16.0

Analyzed 10/19/2018

Analyzed

10/19/2018

ND

BS 400

100

400

Sample ID: SP # 9 - 8' (H803006-36)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

True Value QC % Recovery

RPD

Qualifier

Chloride, SM4500CI-B

16.0

Reporting Limit

16.0

Analyzed By: AC

Method Blank

ND

400

100

400

7,69

Sample ID: SP # 10 - 2' (H803006-37)

mg/kg

Reporting Limit

Analyzed

Method Blank

RPD

Qualifier

Result 4320

Result

2200

Result

2000

10/19/2018

BS

% Recovery

True Value QC

ND

400

100

400

7.69

Sample ID: SP # 10 - 4' (H803006-38)

Chloride, SM4500Cl-B

Analyte

Analyte

mg/kg

Reporting Limit

Analyzed

Analyzed By: AC Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

mg/kg

10/19/2018

ND

400

400

100

100

400

400

7.69

Qualifier

Sample ID: SP # 10 - 6' (H803006-39)

Chloride, SM4500Cl-B

Reporting Limit

16.0

16.0

Analyzed By: AC Analyzed

10/19/2018

Method Blank ND

BS

% Recovery True Value QC RPD

7.69

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Project Name:

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Project Number:

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Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Sample Received By:

Soil

Sampling Condition:

Cool & Intact

10/16/2018

Jodi Henson

Sample ID: SP # 10 - 8' (H803006-40)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	10/19/2018	ND	400	100	400	7.69	
Lainciae	-000								

### Sample ID: SP # 11 - 2' (H803006-41)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/19/2018	ND	400	100	400	7.69	

### Sample ID: SP # 11 - 4' (H803006-42)

Sample 1D: SP # 11 - 4" (1180. Chloride, SM4500Cl-B	mg.	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	10/19/2018	ND	400	100	400	7.69	

### Sample ID: SP # 11 - 6' (H803006-43)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	10/19/2018	ND	400	100	400	7.69	

### Sample ID: SP # 11 - 8' (H803006-44)

Qualifier	
	Quallfier

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10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number: Project Location:

NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 12 - 2' (H803006-45)

Chloride	SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

16.0

Reporting Limit

Analyzed 10/19/2018 Method Blank ND

BS 400 % Recovery 100

True Value QC

Qualifier

Chloride

Chloride

48.0

Analyzed By: AC

400

RPD 7,69

Sample ID: SP # 12 - 4' (H803006-46)

Chloride,	SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Result

208

Reporting Limit Analyzed

10/21/2018

Method Blank ND

BS 432

BS

% Recovery 108

True Value QC

RPD

Qualifier

Sample ID: SP # 12 - 6' (H803006-47)

	CMACOCCI-D
Chloride.	SM4500CI-B

Analyzed By: AC

400

3.64

Chloride,	SM4500CI-B

Analyzed

Method Blank

% Recovery

Oualifier

Chloride

Chloride

Chloride

192

Result

448

Result

272

Result

10/21/2018 16.0

432

108

True Value QC

RPD

mg/kg

Analyzed By: AC

ND

400

3.64

Sample ID: SP # 12 - 8' (H803006-48)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 10/21/2018 Method Blank ND

BS

% Recovery

True Value QC

RPD

Qualifier

432

108

400

3.64

Sample ID: SP # 13 - 2' (H803006-49)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

10/21/2018

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD

3.64

Qualifier

Analyte

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Received:

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Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Reporting Limit

16,0

Reporting Limit

Project Number: Project Location:

Analyte

NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP # 13 - 4' (H803006-50)

Chloride.	SM4500Cl-B
Cilionaci	DILLIANOUS D

mg/kg

Result

448

Analyzed By: AC

Analyzed

10/21/2018

Analyzed

Method Blank ND

Method Blank

ND

BS 432

% Recovery 108

True Value QC 400

RPD 3.64 Qualifier

Sample ID: SP # 13 - 6' (H803006-51)

Chioride,	SM4500Cl-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

BS

RPD

3.64

Chloride

Chloride

352

Result

10/21/2018 16.0

432

108

% Recovery

True Value QC 400

Qualifier

Sample ID: SP # 13 - 8' (H803006-52)

Analyzed By: AC

Qualifier

Chloride

Result 560

Reporting Limit 16.0

Analyzed 10/21/2018 Method Blank ND

BS 432 % Recovery 108

True Value QC

RPD

mg/kg

Analyzed By: AC

400

3,64

Sample ID: SP # 14 - 2' (H803006-53)

Chloride, SM4500Cl-B

Result

64.0

Result

624

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 10/21/2018 Method Blank ND

BS

432

BS

432

% Recovery

108

% Recovery

108

True Value QC

RPD

Qualifier

Chloride

Sample ID: SP # 14 - 4' (H803006-54)

Chloride, SM4500CI-B

mg/kg

Analyzed 10/21/2018

Analyzed By: AC

Method Blank

ND

400

True Value QC

400

3.64

RPD

3.64

Qualifier

Chloride

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10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

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Project Location:

Analyte

COPC - EDDY CO NM

Sampling Date:

10/16/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP # 14 - 6' (H803006-55)

mg/kg

mg/kg

Analyzed By: AC

True Value QC

RPD

Qualifier

Chloride

Result 6930

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

10/21/2018

Analyzed

Analyzed

10/21/2018

Method Blank ND

BS 432 % Recovery 108

400

3.64

Sample ID: SP # 14 - 8' (H803006-56)

Chloride,	SM4500CI-B

Analyte

Analyte

Analyzed By: AC

Qualifier

Chloride

2840

Result

Method Blank

NO

BS 432 % Recovery 108

True Value QC 400

RPD 3.64

Sample ID: SP # 15 - 2' (H803006-57)

'hloride.	SM4500Cl-B	

Analyzed By: AC

Qualifler

Chloride

Result 176

Result

2360

Result

6080

10/21/2018 16.0

Method Blank ND

BS

% Recovery

True Value QC

RPD

16.0

Analyzed

432

108

400

			_		-
Chloride,	SM	450	10	CJ-I	3

mg/kg

Analyzed By: AC

3.64

Sample ID: SP # 15 - 4' (H803006-58)

mg/kg

Reporting Limit

Analyzed

10/21/2018

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride, SM4500CI-B

ND

432

108

400

3.64

3.64

Chloride

Sample ID: SP # 15 - 6' (H803006-59)

Analyte

Analyte

mg/kg

Reporting Limit

16.0

Analyzed By: AC Analyzed

10/21/2018

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

Qualifier RPD

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Received: Reported: 10/18/2018

10/23/2018

JAMES A WATERFLOOD

Project Name: Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date: Sampling Type: 10/16/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP # 15 - 8' (H803006-60)

Chloride.	SM4500Cl-B
CHIOHICO,	31.1230001 =

mg/kg

Analyzed By: AC

Analyte

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

% Recovery 108

True Value QC 400

RPD

Qualifier

Chloride

4480

16.0

Reporting Limit

10/21/2018

Analyzed

ND

432

3.64

Sample ID: SP # 16 - 2' (H803006-61)

Chloride,	SM4500CI+B

mg/kg

Analyzed By: AC

BS

% Recovery

RPD

Qualifier

Chloride

Result 4640

10/21/2018 16.0

Method Blank ND

432

108

True Value QC 400

Sample ID: SP # 16 - 4' (H803006-62)

blorida	SM4500CI-B	

Analyzed By: AC

3.64

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

RPD

Qualifier

Chloride

1280

Result

368

Result

240

10/21/2018 16.0

% Recovery

True Value QC

Chloride

Chloride

Reporting Limit

16.0

ND

432

108

400

3,64

Sample ID: SP # 16 - 6' (H803006-63)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

Method Blank

BS

% Recovery

RPD

Qualifier

10/21/2018

Analyzed

ND

Method Blank

ND

432

108

True Value QC 400

3.64

Sample ID: SP # 16 - 8' (H803006-64) Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Analyzed

10/21/2018

Analyzed By: AC

BS

432

% Recovery

108

True Value QC

400

RPD

3,64

Qualifier

Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 14 of 30



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

Chloride

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number: Project Location: NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

10/16/2018

Jodi Henson

Sample ID: SP # 17 - 2' (H803006-65)

Chloride, SM4500Cl-B	mg/kg Ana			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chlorida	480	16.0	10/21/2018	ND	432	108	400	3.64	

### Sample ID: SP # 17 - 4' (H803006-66)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	10/21/2018	ND	416	104	400	0.00		

### Sample ID: SP # 17 - 6' (H803006-67)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	4480	16.0	10/21/2018	ND	416	104	400	0.00			

### Sample ID: SP # 17 - 81 (H803006-68)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC				<del></del> _		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/21/2018	ND	416	104	400	0.00	
Ciliorac									

### Sample ID: SP # 18 - 2' (H803006-69)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/21/2018	ND	416	104	400	00,0	

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Fax To:

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Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

Project Location:

NONE GIVEN COPC - EDDY CO NM Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

10/16/2018

Jodi Henson

Sample ID: SP # 18 - 4' (H803006-70)

Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	10/21/2018	ND	416	104	400	0.00	
Sample ID: SP # 18 - 6' (H8	03006-71)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	10/21/2018	ND	416	104	400	0.00	
Sample ID: SP # 18 - 8' (H8 Chloride, SM4500CI-B	303006-72) 	/kg	Analyze	ed By: AC					0
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	2120	16.0	10/21/2018	ND	416	104	400	0.00	
Sample ID: SP # 19 - 2' (H	803006-73)								
Chloride, SM4500Cl-B		j/kg	Analyz	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifter
Chloride	64.0	16.0	10/21/2018	ND	416	104	400	0.00	
Sample ID: SP # 19 - 4' (H			A P	and But AC					
Chloride, SM4500CI-B	m	g/kg	Anaiyz	ed By: AC			TV.I 00	DDD	Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quamei
Chloride	240	16.0	10/21/2018	ND	416	104	400	0.00	

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Fax To:

(575) 297-1477

Received:

10/18/2018

Reporting Limit

Reporting Limit

16.0

Reported: Project Name: 10/23/2018 JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/16/2018

Sample ID: SP # 19 - 6' (H803006-75)

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 352

16.0 10/21/2018 ND

416

104

400

0.00

RPD

0.00

Sample ID: SP # 19 - 8' (H803006-76)

Chioriae,	5M45UUCI-B

Analyzed By: AC

10/21/2018

Analyzed

True Value OC

Qualifier

Chloride

944

Result

Method Blank Analyzed

ND

BS 416 % Recovery 104

400

Sample ID: SP # 20 - 2' (H803006-77)

Chlorida	SM4500CI-B	

mg/kg

Analyzed By: AC

Method Blank

BS

416

BS

416

BS

416

% Recovery

RPD

Chloride

Result

32.0

Result

48.0

Result

16.0 10/21/2018 48.0

Reporting Limit

ND

104

True Value QC

Qualifier

•	
Chloride,	SM4500CI-B

Analyzed By: AC

Method Blank

ND

400

0.00

Chloride

Chloride

Sample ID: SP # 20 - 4' (H803006-78)

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

10/21/2018

RPD

Qualifier

400

0.00

Sample ID: SP # 20 - 6' (H803006-79)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

10/21/2018

Method Blank

ND

104

% Recovery

104

% Recovery

True Value QC

400

True Value QC

RPD

0.00

Qualifler

Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 17 of 30



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/16/2018

Sample ID: SP # 20 - 8' (H803006-80)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte  Chloride	Result	Reporting Limit	Analyzed 10/21/2018	Method Blank	BS 416	% Recovery 104	True Value QC 400	RPD 0,00	Qualifter
Sample ID: SP # 21 - 2' (H Chloride, SM4500Cl-B		/kg	Analyze	ed By: AC					

Citionical					_		True Value QC	RPD	Oualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True value QC	KFU	Quantiti
•		16.0	10/21/2018	ND	416	104	400	0.00	
Chloride	32.0	10.0	10/21/2010						

Sample ID: SP	#	21 -	4'	(H803006-82)
---------------	---	------	----	--------------

Sample ID: SP # 21 - 4' (H&C Chloride, SM4500Cl-B	.mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/21/2018	ND	416	104	400	0.00	

### Sample ID: SP # 21 - 6' (H803006-83)

Chloride, SM4500Cl-B	mg.	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifter
Chloride	48.0	16.0	10/21/2018	ND	416	104	400	0.00	

### Sample ID: SP # 21 - 8' (H803006-84)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/21/2018	ND	416	104	400	0.00	
Ciliotiae									

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Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/17/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 22 - 2' (H803006-85)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte  Chloride	Result 192	Reporting Limit	Analyzed 10/21/2018	Method Blank ND	BS 416	% Recovery	True Value QC 400	0.00	Qualifler
Sample ID: SP # 22 - 4' (F	1803006-86)								

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•		16.0	10/21/2018	ND	416	104	400	3.92	
Chloride	208	10.0	10/21/2010						

Sample ID: SP # 22 - 6' (H8U Chloride, SM4500Cl-B	3000-87) mg,	/kg	Analyze	d By: AC	<del>-</del>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/21/2018	ND	416	104	400	3.92	

### Sample ID: SP # 22 - 8' (H803006-88)

Sample 1D: SP # 22 - 8 (Fig Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/21/2018	ND	416	104	400	3.92	

### Sample ID: SP # 23 - 2' (H803006-89)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/21/2018	ND	416	104	400	3,92	

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<sup>\*=</sup>Accredited Analyte



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Fax To:

(575) 297-1477

Received:

10/18/2018

Sampling Date:

10/17/2018

Reported:

10/23/2018

Sampling Type:

Soil

Project Name:

JAMES A WATERFLOOD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

COPC - EDDY CO NM

COPC - EDDY CO NIV

### Sample ID: SP # 23 - 4' (H803006-90)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<del>9</del> 76	16,0	10/21/2018	ND	416	104	400	3.92	

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### **Notes and Definitions**

Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD 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  $6\ensuremath{^{\circ}\text{C}}$ Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kuna



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

		The second secon	
company Name: ConocoPhillips			ANALYSIS ACQUEST
Project Manager: Justin Wiles	The second secon	P.O. #:	
Address:	All the state of t	Company: COK	
city: Hobbs	State: MM Zip: 853%	Attn:	
Phone # 575-631-8092	Fax #:	Address:	
Project#:	Project Owner:	Clty	
Project Name: Tanco A Mary		State: Zip:	
Project Location: Fabric County	NIM	Phone #:	
(1)		Fax快	
	XISTRIAM	X PRESERV. SAMPLING	
	ers Ater		ride
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3 SP#1-6	6	V 10-16	
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PLEASE NOTE: Liability and Charages. Catifinats sixtility and cleants accusably remedy for any clean calabog whether bosed in control of one, abod be instant to the secural part by the cleant for the applicable of the applicable	enta enchesso remedy for only observed whose univers moses in which enchess of in	constant of John short he bridged to the amount paid by the offens for the Sibility and received by Cardinal within 30 days, wher complicion of the ap	by the select for the complete of the applicable complete or of the applicable
sorvice. In no event shall Catalinal be liable for inclinated or comes affiliates or supposessia withing out of or refilied in the yearbornaling.	guental formoges, including without buildien. Eusiense biteroplikas, box of law, or laws of profits incorrect by Class, its substantees, of southers be-gender by Cardinal, regardless of whether spott splits is based upon any of the proversible describes.	ইন্যানিটান, business interopilors, box of true, or loss of public incurred by clears, its substantians. regardless of whiteber 1920 বুঠাত বুঠাতে ভিতৰত ধাতৃত নাপ of the store ব্যৱধান চক্ষাত ভা টেকসেইম।	
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Relinquisted By:	Date: Seceived By:	·	
	Times	ti redati reseau a manda de constante de con	
Delivered By: (Circle One)	Oo 1#0-1 Sample Condition	ondition CHECKED BY:	
Sampler - UPS - Bus - Other: "C" U" T		No CAT	

+ Cardinal rannot account worked channes. Diseas for written channes to 15751 20181236



101 East Marland, Hobbs, NM 88240 (576) 393-2326 FAX (576) 393-2476

	<b>建</b>		Sampler - UPS - Bus - Other: 2,90 #97	Ø _
	CHECKED BY:	Samuel Condition	Time:	
	<del>,-</del>	Risceived By:	Relinquished By:	짒
Misses	MULEY	S.	Cl. bellin	
☐ Yes ☐ No	7	Received by:	Relinquished By:	짇
Yes D No	without entrance, excusses executation is beened open any of the above stated inspects of effect with probability to consider such claim is beened open any of the above stated inspects of effect with a consideration of effects.	entime), repartiless of whother such claim is	acceptor. It is a next shall Cardinal be bothly for (addurtad or consequential descripes, location) without mentalous, consequential resources. It is next shall be accepted to the performance of services because in the consequential to the performance of services because in consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the performance of services because in the consequential to the services because in the serv	
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	1 10-16		59#5-2	
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The state of the s			SP # 3-8'	
			11 50 #3-6"	
	<u></u>			II d
Chloric	OTHER: ACID/BASE: ICE/COOL OTHER: DATE	G)RAB OR (C)C CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	o I.D. Sample I.D.	б <sub>г</sub>
- L-5		R	•	ğ
	Fax#:		B	Sam
	Phone #:		2	Proj.
	State: Zip:	<b>9</b>	Project Name: James A Water flood	Pro
	Oly;	COR	Project Owner:	O.
	Address:	1000000	75-431-9093 Fax #:	u hor
	Attr:	Zip: 88340 A.	16 State: NM	C C
	Company: CORC	C)	1.	A
	P.O. #:	P	Project Manager	Drni.
ARACTOR	1 = 1 = 1 = 1		Company Name: /	3
ANALYSIS DECITEST			(575) 393-2326 FAX (575) 393-2476	

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101 East Marland, Hobbs, NM 88240

=	(575) 393-2326 FAX (575) 393-2476	3-2476		) period generalization	ANALYSIS REQUEST	
Company Name:	stailly down of			To the second se	•	
Project Manager:	4		P.O.#			حدب
Address:	C. A. WILLY		Company: COK			
City Habbs	State: ///	MM Zip: 88840	Attn:			
Phone # 575	131-908		Address:	a population and a second seco		
		OWINET: COR	City:			···
Project #.	Tana Allahyth		State: Zip:	<u> </u>		
Project Name:	Canal Comment		Phone #:			
Project Location:	Int Kings hoos		Hax #:	5		
Sampler Name:	JUSTIN MINISM	MATRIX	PRESERV. SAMPLING	<u>ا</u> وح		
FOR LAB USE ONLY	,	R		70		
Lab l.D.	Sample LD.	AB OR (C)O NTAINERS SUNDWATE STEWATER	IER: D/BASE: / COOL HER:	Chlor		
SADELS H		# CO GRO WA SOI OIL	AC OT DATE	TIME		
22	57#6-2	6	1 11/10	<		
22	S)#6-4"		10-11			
23	5/46-6		1.00			
1	3/46-8		11.00			
37	18-1475		1.01			
26	5747-4		11-11	V		
77	19-17-6		1.00			
44	M. J.		11-11/1			
22	SPH 2-9.	7	1011	~		
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sandysus. All chaines feela servica. In the sevent shall	adental of chased	iental darungas, including milioud Enisation. Dustrass kalentpikons, iost of thea, or hoss of posts insulated by Cash, as attournment, I a circum Enougher for Casdinal, expandeurs of whether such claim is broad upon earl of the above public in expone or offensions.	ass inlextupidors, bast of thes, or have of profits mounted by the tedest such chain is based then early of the above stated mass		1	
official project states of the	(permance of as	Regelved By		Phone Result:   Yes   No	Add Fluire	
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Reinquished	Date:	Pageixen by.			-	····
<i></i>						
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Sampler - UPS	- Bus -	-	No. J. V.			
+ Cortinal	si rannot scroat verbal channes	Dlassa for uniffor	Charine to the Market Ton			



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

	(5/5) 353-2326 FAR (9/3/ 353-24)			ANALYSIS DECILIAT	
Company Name:	CongoPhilips				
Project Manager:	1		T.C. #		
Address:			Company: (OPC	Adams	
city: Holds	State: MM	Zp: 88840	Attn:		
Phone # 575-	5-131-9093 Fax#:	(Biographia)	Address:		
" [		CR	City:		
Project Name:	James A Water Flood		State: Zip:		
Protect Location:	Eddy (putt)		Phone #:		
Sampler Name:	This Which		Fax #:		
POR LABUSE DALY		MATRIX	PRESERY. SAMPLING		
		IERS VATER		pride	
Lab I.D.	Sample I.D.	RAB OR CONTAINI ROUNDWA ASTEWAT DIL L UDGE	THER: CID/BASE E/COOL THER:	Chl	
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200	, 4-6HES		1 10-16		
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S.	1.614	S .	1 10-16		
200	(8-0 HGS	6 4	1 10-16		
E	59 HID-31	6	1 10-16		
38	SPA10-41	C	1 1016		
H	5PH10-61	3	10%		
Oto		Control and the same control and control a	The start the contract of ball, shall be limited to the attorned pass	by the clost furths	
PLEASE NOTE: Including the company and com	notes has regulated and and	deomed waived unions mede in willing J willyout Emitation, business intertuple	days rates whatsoever shall be deemed waterd unders made in willing and mexical by Continut within 20 days after combination of the opphration of the opphra	Contraction of the appreciate elect. The substitutes	
Ralinquished	- PL	Date: A Received By:	Charles (Const.) Update and the line was a sure of const. Const. Const.	Phone Result: 1 Yes   No   Add'  Phone #:	
	1 20-10-0	don .	Genson	i i	
Relinquis red 8	Date:	Refeived By:			
Delivered By:	(Circle	Sample Con Cool Inte	dition CHECKED BY:		
Sampler - UPS	- Bus - Other: V	. □. ×. i			
* Parelina	Cardinal rannot accort works! changes. Place	Dieses for written channes	TO TAXABLE CONTRACTOR OF THE PARTY OF THE PA		



101 East Mariand, Hoods, with court	•
12	ANALYSIS REQUEST
. 6	P.O.#:
Floker manager 1050 WILL	Company: CORC
Address: MM Zip: 87140	140 Attn:
2080 121 - CNO 1	Address
0 10 10 10 000	· 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Tomes A Waterflood	State: Zip:
	Phone #:
Project Location: Food County, NIII	
Sampler Name: Tistin Wight	TAX #:
Lab I.D. Sample I.D.	OUNDWATER STEWATER IL  UDGE HER: ID/BASE: E/COOL HER:
#	71-01 1
12 2/4/1-7	` `
UII < D-11/-8	V 10-14
15 SPH2-21	
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18 SP#13-8'	1 10-11
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PLEASE NOTE: Lather on a service of the page and any other page whateverer shall be deemed waved utage most in the page of the state of the page of the pag	
Service. In the sevent orbit Continue to hooke the incidential in continuental continues, expensional in the sevent orbit services in the continue to the continue, required to the continuent orbit services or services in the continuent orbit services.	t □ Yes □ No
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Relinquished By: Pecer	ved By:
Time:	ALEGICEN DA
Delivered By: (Circle One) 296 /#97	Sample Condition Chespers of Cool Intack Cool Intack Tyes Tyes
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101 East Marland, Hobbs, NM 88240

101 Hast Warrant 1 107 1 193-2476	(F25) 393-2476		
(0/9) 030-£020   10/9			ANALYSIS REQUEST
Conocoli	P.O. #:	**	
TATION OF		Company: COR	
Clly: Habbs	State: NM Zip: 88840 Attn:	***************************************	
2002 # 4-75-43)-9002		Address:	
	Project Owner: City:		
	terflood State	te: Zip:	
		Phone #:	
Project Constroin	Fax #:		5
Sampler Name: Y/371n W/V	MATRIX II	SERV SAMPLING	
PER LAB USE ONLY	The state of the s		
Lab I.D. Sample I.D.	ORAB OR (C)OM CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE THER:	CID/BASE: E/GOOL THER:	Chlen
LY CYTICS OF SECOND	# S C C S	1 10-16	
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Ch codul 2)		1 10-16	
11-14/46 12	C	1 10-16	
18-MHQ5 422	6 /	1/10/1/	
50 PH/H-81	6	10-14 ×	
C-5/2005 [5]	6	1070	
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54 DH15-6'		1100	
(d) (DH/5-8'	Cardinal's Kindilly, and client's exclusive remners for only communication windless based in commission of the cardinal by the dead for the cardinal for the ca	yr, chall be similar to the amount gold by the Card to the	e etyphocable
PLEASE IN I. Colors including those for negligence and any of service. All chears including those for negligence and any of service, in the system that Certifical be table for incidental or on	PLEASE THE IT. IT. COMES TO TREE FOR TREE WHITE COURT HE STORM THE	there, lies of use, or less of profits bewared by clore, its subsidiaries, think is present upon may of the above stated reasons or offerwise.	
The high contract of the performance of the perform	Time: 5 MOM South Statement State St	MOSM REMARKS:	II: D Yes D No Add Phone #:
Redinquished by:	Time: Hycerved by:		
Delivered By: (Circle One)	990 #97 Cool Intact	CHECKED AY:	
Sampler - UPS - Bus - Other:	, ,	12	

+ Cardinal connet accord works! chances Bloses fav written chances to (1751) 10 187278



101 East Mariand, Hobbs, NM 88240

(575) 393-2326 FAX (576) 393-2476	76		
Company Name: Conoco Phillips	(2) 每 (1) (	ANALYSIS REQUEST	
Project Manager: Trafin Wijsht	P.O.#:		
	Company:	P	
	State: NM Zip: 88340 Attn:		
#: 575-631-9092	Address:		
	TOPC CITY:		<u>-</u>
ame: Jomes A Wh	•		
on Eddy County N	Phone #:		,,,,
Sampler Name: Turker Miles	Fax #:		
Semilarios servicos	MATRIX PRESERV	SAMPLING	
Lab I.D. Sample I.D.	R: Base: Cool	hloria	
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534	*	18-14	
16-UAD 40	3	10-14	
(27 PA) 7-6	0 1		
Q 29#17-8'			
0.04.00		10-11	
PLEASE NOTE: Unbeilty and Character. Condition's absolute rate debut to exclusive remedy for any dation entiting whether become in contract or fort, third be firsted to this sentent dock by the short for the PLEASE NOTE: Unbeilty and Proceedings about the complete on the procedure of the Character whether on the procedure of the PLEASE NOTE: Unbeilty and received the Character whether on the procedure of the PLEASE NOTE: Unbeilty and received the Character whether on the procedure of the PLEASE NOTE: Unbeilty and received the PLEASE NOTE: Unbeilty and receiv	and diserts exclusive remedy for any dainy existing whether based in socional or for, usual be finded to the servicing pole by the identification of the or whether exclusive remedy by Caudiona within 30 days usher completion of the or	company gold by the ident for the gold of	
Business security of the Continue to Make for incidental of consequented damages, including suffront Antibutor, business intercopylogis, and of Ups, of the State Continue to Indian to Indian an income of the Continue to Indian to Indian Ind	ding without knokulon, busiened intercupione, leas of last, of last of provis maners by Ferm, as successively by Cardinal, nggridens of whether such class (subsent styre) any of the above stated represent otherwise.	1 Yes	
	Reg	☐ Yes ☐ No	
Relinquished By:	Received By:		, ,
		BY:	· //-
	Cool Intact Impa	Τ:	
Sampler - OFS + bus - color.	_		

+ Cardinal remark second worked observes. Blaces for written channes to IRTR 102/2126



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (576) 393-2476

æ	(575) 393-2326 FAX (576) 393-2476	393-2476			The second secon		***************************************
Company Name:	ConocoPhillips		23.00	6/2-16	A COLUMN COMMUNICATION OF THE COLUMN COMMUNICATION OF THE COLUMN	ANALYSIS REQUEST	
Project Manager:	Justin Whilaht	The second of th	The state of the s	P.O. #:			
Address:				Company: COR			
city: Hobbs	state:	NM Zip:	01188	Attn:			
Phone #: 575-431-8092	-431-9092 Fax#			Address:	Managar standing Advisionam		
Droigot #		Project Owner:		City:	Service minimum and a		•
Project Name:	James A Water flood	00		State: Zip:			
	F. J. Carrow Mar	13		Phone #:			
Campley Name:	ガチャン			Fax 恭:			-
Sampler Maille.	Carried Contract		MATRIX	PRESERV SAMPLING			
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Lab l.D.	Sample I.D.	G)RAB OF	GROUNDY WASTEW/ SOIL OIL SLUDGE	OTHER: ACID/BAS ICE/COC OTHER: DA	Ch		
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d.	1 P. OLFES	6					
96	D#20-8' C	C	sign whellber beset in contract	spling whether beset in contrast or for, shell be trained to the executy poid by the citeral for the	d by the chert for the		
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hillings or successors attacks out of or	on out of or foliated to this performance of services	Date: Rece	ce ved By:	carrie base agon any other approximate in Phone Res	Phone Result:   Yes	No Add'i Phone #:	
Relinquisted by	1	2/8		Tenson	(R	Š	
Relinquished B	Date:		Received By:				
	Time:	£2					
Delivered By	Delivered By: (Circle One) 296	1.0#/	Sample Condition Cool Intack	o Chicketon:			
	Campler, IPS - Bus - Cities S						

+ Cardinal cannot account worked channes. Pleases for written channes to IETEI 10127126



P.O.#  Company: CORC  Attn: Address: City: State: Zip: Phone #: Fax #:
State: MN Zip: 87340 Attn:  -631-9050 Fax #: Address:  - Project Owner: COPC City:  Tuent A Water 1650 State: Zip:
State: MI Zip: 87340 Attn:  575-631-9050 Fax #: Address:  Project Owner: COPC City:  lame: Tanto A Wates I lead  bocation: Feloj County, MM Phone #:  Name: Turkin MIAH  Name: Turkin MIAH  Pax #:
Fax #: Address:  Project Owner: COPC City:  State: Zip:  Unity Nm Phone #:  Unity Nh Fax #:
Project Owner: COPC City:  (Late Liec) State: Zip:  (Late Liec) Phone #:  (Late Liec) Phone #:
where: Trans A Water 1/000 State: Zip:  Scation: Febric County, NM Phone #:  Name: Trans Wight Fax #:
on: Eddy County VM Phone #: Tuskin Wijest Fax #:
Tryin Wight
Charles and the control of the contr
MATRIX PRESERV SAMPLING
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AB OR (C)O INTAINERS DUNDWATER DOBASE: I COOL IER:
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57 #21-6
SP#11-8
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6 J # 22-4'
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10-17
31
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THICOTHE.
8 PAX REMARKS: U YES U NO
Relin duiste By: Pare: Received By:
District Control
Delivered By: (Circle One) 290 # 77 Cool Intact / Imples



October 23, 2018

JUSTIN WRIGHT
Conoco Phillips - Hobbs
P. O. BOX 325
Hobbs, NM 88240

**RE: JAMES A WATERFLOOD** 

Enclosed are the results of analyses for samples received by the laboratory on 10/18/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 <a href="https://www.tceq.texas.gov/field/qa/lab-accred-certif.html">www.tceq.texas.gov/field/qa/lab-accred-certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celeg D. Keens

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,

Celey D. Keene

Lab Director/Quality Manager



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

Analyte

Analyte

Analyte

Analyte

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 10/17/2018 Soil

Cool & Intact

Jodi Henson

Sample ID: SP # 23 - 6' (H803007-01)

Chloride

Chloride

mg/kg

320

Result

352

Analyzed By: AC

Result

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 10/22/2018

Analyzed

10/22/2018

Method Blank ND

Method Blank

ND

ND

BS 416 % Recovery 104

% Recovery

104

True Value QC 400

RPD 3,92 Qualifier

Sample ID: SP # 23 - 8' (H803007-02)

mg/kg

Analyzed By: AC

BS

416

BS

416

True Value QC

400

RPD

Qualifier

Sample ID: SP # 24 - 2' (H803007-03)

Analyzed By: AC

Analyzed

10/22/2018

Method Blank

% Recovery

True Value QC

400

RPD

3.92

3.92

Qualifier

Chloride

Chloride

128

Result

752

Result

Chloride, SM4500Cl-B

Sample ID: SP # 24 - 4' (H803007-04)

Analyzed By: AC

Analyzed 10/22/2018 Method Blank ND

8S 416 % Recovery 104

104

True Value QC 400

RPD 3,92 Qualifler

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and client's exclusive remedy for any claim arising, whether based in contract or bott, shall be limited to the amount paid by client for analyses. All claims, individing those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for Indicental or consequential damages, any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for Indicental or consequential damages, and indicential cardinal be represented by Cardinal Cardi

Celey & Kana



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/17/2018

Sample ID: SP # 24 - 6' (H803007-05)

Chloride, SM4500CI-B	/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC 400	RPD 3,92	Qualifier
Chloride	912	16.0	10/22/2018	ND	416	104	100		
Sample ID: SP # 24 - 8'		)	Analyze	ed Bv: AC					

Chloride, SM4500Cl-B	mg	/kg	Anaiyze	а ву; ас			<del></del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/22/2018	ND	416	104	400	3.92	

Sample ID: SP # 25 - 2' (H	803007-07)		
Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC	

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/22/2018	ND	416	104	400	3.92	
Cilionac									

Chloride	336	16.0	10/22/2018	ND	416	104	400	3.32

Sample ID: SP # 25 - 4' (Hi Chloride, SM4500CI-B	803007-08) mg,		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	10/22/2018	ND	416	104	400	3.92	

Chloride	3440	16.0	10/22/2018	ND	416	104	400	3.92

Sample ID: SP # 25 - 6' (H8 Chloride, SM4500Cl-B	03007-09) mg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	480	16.0	10/22/2018	ND :	416	104	400	3.92	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTTE: 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 client (or analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within titinty (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, ins subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such inclination, business interruptions, loss of use, or loss of profits incurred by client, ins subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such inclination, business interruptions, loss of use, or loss of profits incurred by client, ins subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such inclination, business interruptions, loss of use, or loss of profits incurred by client, ins subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such inclination, business label to the performance of the services hereunder by Cardinal and the performance of the services have a successor arising out of or related to the performance of the services.

Celeg D. Kuna



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD NONE GIVEN

Project Number:

Analyte

Analyte

Analyte

Analyte

Analyte

Project Location:

COPC - EDDY CO NM

Result

80.0

Result

96.0

Sampling Date:

10/17/2018 Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 25 - 8' (H803007-10)

Chloride, SM4500CI-B

Chloride

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

Analyzed

10/22/2018

Analyzed

10/22/2018

Method Blank

% Recovery

True Value QC

RPD Qualifier

Sample ID: SP # 26 - 2' (H803007-11)

Chloride, SM4500Cl-B

Analyzed By: AC

ND

Method Blank

ND

BS

416

104

400

3.92

Analyzed By: AC

416

BS

104

% Recovery

True Value QC 400

Qualifier RPD

3.92

Sample ID: SP # 26 - 4' (H803007-12)

Chloride, SM4500Cl-B

Analyzed

Method Blank

Chloride

Chloride

800

Result

10/22/2018 16.0

ND

ВS 416 % Recovery 104

True Value QC 400

RPD

Qualifier

Sample ID: SP # 26 - 6' (H803007-13)

Chloride, SM4500CI-B

Analyzed By: AC

3,92

Result

864

Result

1120

Reporting Limit Analyzed

Method Blank

BS

% Recovery True Value QC

RPD

Qualifier

Chloride

Chloride, SM4500Cl-B

10/22/2018

ND

416

104

400

3.92

Chloride

Sample ID: SP # 26 - 8' (H803007-14)

mg/kg

Reporting Limit

16.0

Analyzed

10/22/2018

Analyzed By: AC

ND

Method Blank BS

416

% Recovery 104

True Value QC 400

RPD 3.92

\*=Accredited Analyte

Qualifier

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aleg & Kenne

Celey D. Keene, Lab Director/Quality Manager



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/17/2018

Sample ID: SP # 27 - 2' (H803007-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC							
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Analyte		• =	40422/2019	ND	416	104	400	3.92		
Chloride	80.0	16.0	10/22/2018	ND	110					

# Sample ID: SP # 27 - 4' (H803007-16)

Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	672	16.0	10/22/2018	ND	416	104	400	0.00			

# Sample ID: SP # 27 - 6' (H803007-17)

Sample ID: SP # 27 - 6' (H803007-17) Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD 0.00	Qualifier
Chloride	464	16.0	10/22/2018	ND	416	104	400	0.00	

# Sample ID: SP # 27 - 8' (H803007-18)

Chloride, SM4500Cl-B	mg,		Analyze	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	240	16.0	10/22/2018	ND	416	104	400	0.00			

## Sample ID: SP # 28 - 2' (H803007-19)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	608	16.0	10/22/2018	ND	416	104	400	0.00	
Cilionae									

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Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

Analyte

Chloride

NONE GIVEN

Result

64.0

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/17/2018

Sampling Type: Sampling Condition: Soil

Cool & Intact

Sample Received By:

104

Jodi Henson

Sample ID: SP # 28 - 4' (H803007-20)

Sample 25. or	•	_
Chloride, SM4500CI-B		mg.

Analyzed By: AC ı/kg Reporting Limit

16.0

Analyzed

10/22/2018

Method Blank

ND

% Recovery BS

416

True Value QC 400

RPD

Qualifier

0.00

Sample ID: SP # 28 - 6' (H803007-21)

Chloride, SM4500CI-B	mg/	/kg	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/22/2018	ND	416	104	400	0.00	

# Sample ID: SP # 28 - 8' (H803007-22)

Sample ID: SP # 28 - 8' (H803007-22) Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/22/2018	ND	416	104	400	0.00	

# Sample ID: SP # 29 - 2' (H803007-23)

Chloride, SM4500CI-B	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/22/2018	ND	416	104	400	0.00	

# Sample ID: SP # 29 - 4' (H803007-24)

Chloride, SM4500Cl-B	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	32.0	16.0	10/22/2018	ND	416	104	400	0.00	

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Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/17/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP # 29 - 6' (H803007-25)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte  Chloride	Result	Reporting Limit	Analyzed 10/22/2018	Method Blank ND	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier

### Sample ID: SP # 29 - 8' (H803007-26)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/22/2018	ND	416	104	400	0.00	

# Sample ID: SP # 30 - 2' (H803007-27)

Sample ID: SP # 30 - 2' (H803 Chloride, SM4500Cl-B	300/-2/) mg,		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD 0.00	Qualifier
Chloride	416	16.0	10/22/2018	ND	416	104	400	0.00	

# Sample ID: SP # 30 - 4' (H803007-28)

Chloride, SM4500Cl-B	mg,		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•		16.0	10/22/2018	ND	416	104	400	0.00	
Chloride	48.0	10.0	10/22/2010						

## Sample ID: SP # 30 - 6' (H803007-29)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	64.0	16.0	10/22/2018	ND	416	104	400	0,00	

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Analyzed By: AC

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/17/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP # 30 - 8' (H803007-30)

hloride, SM4500Cl-B	mg/	kg	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2018	ND	416	104	400	0.00	
Sample ID: SP # 31 - 2' (H			Analyze	J Bur AC					
Chloride, SM4500Cl-B	mg,	kg	Analyze	а ву. АС					0116-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/22/2018	ND	416	104	400	0.00	
Sample ID: SP # 31 - 4' (I				.1 D 4C					
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	10/22/2018	ND	416	104	400	0.00	
Sample ID: SP # 31 - 6' (	н803007-33)	1							
Chloride, SM4500Cl-B	mc	j/kg	Analyze	ed By: AC					- V5-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/22/2018	ND	416	104	400	0.00	
Sample ID: SP # 31 - 8' (			<u> </u>	and Day AC					
Chloride, SM4500CI-B	m	g/kg	Analyz	ed By: AC					Qualifie
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1390	16.0	10/22/2018	ND	416	104	400	0.00	

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Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

COPC - EDDY CO NM

Project Number:

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

10/17/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP # 32 - 2' (H803007-35)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	·	16.0	10/22/2018	ND	416	104	400	0.00	
Chloride	672	10.0	10/22/2010						

## Sample ID: SP # 32 - 4' (H803007-36)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/22/2018	ND	416	104	400	3.92	
Culoriae									

# Sample ID: SP # 32 - 6' (H803007-37)

Sample ID: SP # 32 - 6' (H80 Chloride, SM4500Cl-B	3007-37) .mg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD 3.92	Qualifier
Chloride	144	16.0	10/22/2018	ND	416	104	400	3.32	

# Sample ID: SP # 32 - 8' (H803007-38)

Chloride, SM4500Cl-B	mg,		Analyze	d By: AC					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte		16.0	10/22/2018	ND	416	104	400	3.92	
Chloride	352	10.0	10/24/2010						

# Sample ID: SP # 33 - 2' (H803007-39)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2018	ND	416	104	400	3.92	

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Received:

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Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/17/2018

Sample ID: SP # 33 - 4' (H803007-40)

Sample ID: SP # 33 - 4 (Ho Chloride, SM4500Cl-B	mg/	'kg	Analyzed	l By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	80.0	16.0	10/22/2018	ND	416	104	400	3,92	
Sample ID: SP # 33 - 6' (H	803007-41)		Anal <b>y</b> ze	d Bv: AC					
Chloride, SM4500CI-B	mg				BS	% Recovery	True Value QC	RPD	Qualifler
Analyte	Result	Reporting Limit	Analyzed	Method Blank		·	400	3.92	
Chloride	48.0	16.0	10/22/2018	ND	416	104	400	3.32	
Sample ID: SP # 33 - 8' (H Chloride, SM4500CI-B		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quanter
Chloride	80.0	16.0	10/22/2018	ND	416	104	400	3.92	
		•							
Sample ID: SP # 34 - 2' (F Chloride, SM4500CI-B		) g/kg	Analyz	ed By: AC					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte  Chloride	144	16.0	10/22/2018	ND	416	104	400	3.92	
Sample ID: SP # 34 - 4' (I	H803007-44	·)	Analyz	ed By: AC					
Chloride, SM4500CI-B	<u></u>	g/kg			BS	% Recovery	True Value QC	RPD	Qualifie
Analyte	Result	Reporting Limit	Analyzed	Method Blank			400	3.92	
Chloride	48.0	16.0	10/22/2018	ND	416	104	UUF	3,52	

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Celley D. Kenne



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Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD NONE GIVEN

Project Number:

COPC - EDDY CO NM Project Location:

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

10/17/2018

Sample Received By:

Jodi Henson

Sample ID: SP # 34 - 6' (H803007-45)

mg/l esult 1.12 7-46) mg/ tesult 1.28 7-47) mg Result 3480	Reporting Limit 16.0  (kg  Reporting Limit 16.0	Analyzed	Method Blank ND  By: AC Method Blank ND  By: AC Method Blank	BS 416 BS 416	% Recovery 104  % Recovery 104	True Value QC 400  True Value QC 400	RPD 3.92 RPD 3.92	Qualifier  Qualifier  Qualifier
7-46) mg/ Result 128 77-47) mg	16.0 /kg  Reporting Limit 16.0 /kg  Reporting Limit	Analyzed 10/22/2018  Analyzed Analyzed	1 By: AC  Method Blank  ND  d By: AC	8S 416	% Recovery 104	True Value QC 400	RPD 3.92	
mg/ Result 128 17-47) mg	Reporting Limit 16.0 /kg Reporting Limit	Analyzed 10/22/2018 Analyzed Analyzed	Method Blank ND d By: AC	416	104	400	3.92	
128 17-47) mg	Reporting Limit 16.0 /kg Reporting Limit	10/22/2018  Analyze  Analyzed	ND d By: AC	416	104	400	3.92	
128 (7-47) mg Result	16.0 /kg Reporting Limit	10/22/2018  Analyze  Analyzed	d By: AC					Qualifier
<b>mg</b> , Result	/kg Reporting Limit	Analyzed		BS		True Value QC	RPD	Qualifier
		•	Piccilos Diesis					
3480	16.0							
	10.0	10/22/2018	ND	416	104	400	3.92	
)7-48)		40-	ed By: AC					
	j/kg			 BS	% Recovery	True Value QC	RPD	Qualifier
Result 624	Reporting Limit	10/22/2018	ND	416	104	400	3.92	
		Analyz	ed By: AC					
Result	Reporting Limit	Analyzed 10/22/2018	Method Blank ND	BS 416	% Recovery	True Value QC	RPD 3.92	Qualifier
(	)7-49 m	624 16.0 07-49) mg/kg	624 16.0 10/22/2018 07-49) mg/kg Analyz	624 16.0 10/22/2018 ND  77-49)  mg/kg  Analyzed By: AC  Result Reporting Limit Analyzed Method Biank	624 16.0 10/22/2018 ND 416  07-49)  mg/kg  Analyzed By: AC	624 16.0 10/22/2018 ND 416 104  07-49)  mg/kg  Analyzed By: AC	Result   Reporting Limit   Analyzed   Method Blank   BS   W. Recovery   True Value QC	Result   Reporting Limit   Analyzed   Method Blank   BS   76 Recovery   True Value QC   RPD

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Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Sample Received By:

Sampling Condition:

10/17/2018 Soil

Cool & Intact

Jodi Henson

Sample ID: SP # 35 - 8' (H803007-50)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/22/2018	ND	416	104	400	3.92	

## Sample ID: SP # 36 - 2' (H803007-51)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC				<del></del>	
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	192	16.0	10/22/2018	ND	416	104	400	3.92	
Chloride	192	10.0	<b>1</b> 4) <b>-</b> ,						

# Sample ID: SP # 36 - 4' (H803007-52)

Sample ID: SP # 36 - 4' (H80 Chloride, SM4500Cl-B	(300/-52) mg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD 3,92	Qualifier
Chloride	448	16.0	10/22/2018	ND	416	104	400	3,92	

# Sample ID: SP # 36 - 6' (H803007-53)

Sample ID: SP # 36 - Chloride, SM4500CI-B	mg/		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/22/2018	ND	416	104	400	3.92	

# Sample ID: SP # 36 - 8' (H803007-54)

Sample 1D: SP # 30 - 8 (10 Chloride, SM4500Cl-B	mg,		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	672	16.0	10/22/2018	ND	416	104	400	3.92	

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Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018 JAMES A WATERFLOOD

Project Name:

Project Number: Project Location: NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

10/17/2018

Soil

Cool & Intact Jodi Henson

Sample ID: SP # 37 - 2' (H803007-55)

Chloride, S	M4500CI-B
-------------	-----------

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

True Value QC % Recovery

RPD

3.92

Qualifier

Chloride

480

16.0

Reporting Limit

10/22/2018

Analyzed

ND

416

104

400

Sample ID: SP # 37 - 4" (H803007-56)

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

BS

% Recovery

Chloride

288

Result

10/22/2018 16.0

ND

Method Blank

432

108

True Value QC

RPD Qualifier 0.00

Sample ID: SP # 37 - 6' (H803007-57)

-		
Chloride	SM4500CI-B	

Analyzed By: AC

Result 64.0 Reporting Limit

Analyzed

Method Blank

BS

% Recovery

True Value QC

400

RPD

Chloride

16.0

Reporting Limit

16.0

Reporting Limit

16.0

10/22/2018

ND

432

108

400

0.00

Qualifier

Sample ID: SP # 37 - 8' (H803007-58)

Chloride, SM4500Cl-B

Analyzed By: AC Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

80.0

Result

10/22/2018

ND

Method Blank

ND

432

Sample ID: SP # 38 - 2' (H803007-59)

Chloride, SM4500Cl-B

mg/kg

Result

1140

108

400

0.00

RPD

0.00

Analyzed

10/22/2018

Analyzed By: AC

BS

432

% Recovery

108

True Value QC

400

Qualifier

Analyte

\*=Accredited Analyte

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 13 of 23



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

Project Location:

NONE GIVEN COPC - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

10/17/2018

Sample ID: SP # 38 - 4' (H803007-60)

Sample ID: SP # 38 - 4' (H			Analyzed	I Bur AC					
hloride, SM4500Cl-B	mg/	kg	Anaiyzed	I BYLMC				RPD	Qualifter
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC		Qualifici
hloride	2440	16.0	10/22/2018	ND	432	108	400	0.00	
Sample ID: SP # 38 - 6' (H	803007-61)								
hloride, SM4500Cl-B	mg,		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/22/2018	ND	432	108	400	0.00	
Sample ID: SP # 38 ~ 8' (H Chloride, SM4500Cl-B		/kg	Analyze	ed By: AC			To a Mahina OC		Qualifler
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	•	Qualifier
Chloride	112	16.0	10/22/2018	ND	432	108	400	00,0	
Sample ID: SP # 39 - 2' (H			Analuz	ed By: AC					
Chloride, SM4500Cl-B	m	j/kg	Analyz				True Value QC	RPD	Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	_		<b>Q</b> 3
Chloride	848	16.0	10/22/2018	ND	432	108	400	0.00	
Sample ID: SP # 39 - 4' (			∆nalvz	ed By: AC					
Chloride, SM4500Cl-B	m	g/kg	Andiya				True Value QC	RPD	Qualifie
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	-		Qualific
Chloride	1800	16.0	10/22/2018	ND	432	108	400	00,0	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Unbility and Damages, Cardinal's Bablity and client's exclusive remedy for any claim arising, whether based in contract or loct, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential demages, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celing D. Keene



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To:

(575) 297-1477

Received:

10/18/2018

Reported:

10/23/2018

Project Name:

JAMES A WATERFLOOD

Project Number:

NONE GIVEN

Project Location:

COPC - EDDY CO NM

Sampling Date:

10/17/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP # 39 - 6' (H803007-65)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed	By: AC					
Analyte Chloride	Result	Reporting Limit	Analyzed 10/22/2018	Method Blank ND	BS 432	% Recovery	True Value QC 400	0.00	Qualifier
Sample ID: SP # 39 - 8' (I		/kg	Апајуzе	d By: AC					
Analyte	Result	Reporting Limit	Analyzed 10/22/2018	Method Blank ND	BS 432	% Recovery	True Value QC 400	RPD 0.00	Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Listatiny and Damages. Cardinal's Baiathy and client's exclusive ramedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for negligence and gary other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (39) days after completion of the applicable service. In no event shall Cardinal be fable for incidented or consequential damages, and individually, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Kenne



# **Notes and Definitions**

Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD 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

\*=Accredited Analyte

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Celly D. Kerra



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 293-2476

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Project Manager:	Justin With aht		P.O. #	<u> </u>		_
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CIN Hobbs	State: ////	n Zip: 88340	Attn:			
e,	631-9093 Fax#:		Address:			
Project#:	Project Owner:	vner: CORC	City:		-	
ame:	James A Waterflood		State: Zip:			
3	7/2/1		Phone #:			
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FOR LAB USE ONLY	Charles Andrews	MATRIX	PRESERV. SAMPLING	<u> </u>		
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Fast Marland, Hobbs, NM 88240

101 East Matland, 1975, 293-2476	ANALYSIS REQUEST
575) 393-2326 F	
Muscolar	P.O.#
Project Manager: Justin Wilgat	Company: COPC
State: WM	Zip: 98240 Attn:
105071170101	Address:
210 600 1000	COPC Gily:
Townson A What	State: Zip:
March of the state of	Phone #:
Project Location: Low (Clark)	Fax #
Sampler Name: Vytin Willen	MATRIX PRESERV SAMPLING
FOR LAB USE ONLY	ER
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Sampler - UPS - Bus - Other: 4 - 10 /7	$\vdash$

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101 Fast Marland, Hobbs, NM 88240

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Project Manager: Company Name: City: Hobbs Sampler Name: Project #: Phone #: 575-631-9092 Project Location: Project Name: Torner A Whotelflood ddress FOR LAB USE ONLY 480300 Lab I.D. Relin Relinquished B sarvice, in no event shall Delivered By: (Circle One) 12 SP#31-6' 18-18#ds1F 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 5P#31-4' 150 #32 -4' SP#32-2' SP#32-6' 5PH31-2 12-56 # 45 Sp#32-8' Justin Whight 5P# 33-41 Conscorbillips Sample I.D. 25.70 Fax #: Project Owner: State: NIM Date: Time: 10-18-18 Lb#/ 710: 88340 (G)RAB OR (C)OMP. 0 0 23 90 Received By: # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE PO.# City: Attn: Company: Address: State: Phone #: Fax# OTHER: PRESERV ACID/BASE: ICE / COOL Cardinal within 20 days after completion of the applicable places of profits incurred by dient its subsidieries. COR OTHER Zigi 10-17 10-17 16-17 10-17 10-17 10-17 10-17 SAMPLING DATE Phone Result: Fax Result: REMARKS: TIME Chlorides 미미 Yes D No ANALYSIS Add'l Phone#: Add'l Fax#: REQUEST

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101 East Marland, Hobbs, NM 88240

Reynquished By:	Tell Musical Maria	affiliates or strokesors arising out of or related to the performance of se	analyses. All define including those for negligence and any other cruses envisor. In no event shall Cardinal be liable for indicated or consequent service. In no event shall Cardinal be liable for indicated or consequent	BI EASE NOTE: 'Inhilly and Damades, Cardinal's Bobilly and client's a	( C	19-52#GS PL	14-52 # 45 147		,8-12#d5 9h	_	14 Jo#34-41	-	47 SP#33-8'	1 SP#33-6'	H8030071		Lab l.D. Sample l.D.		FOR LABUSE ONLY		Project Location: Eddy ( Auth M)	Project Name: Tanes A Material		15-631-9097	buts	Address	.	Company Name: Control h 11:05	(575) 393-2326 FAX (575) 393-2476
Date: Received By:	10-18-18 ADEN SON	Date: Received By: Phone Results Date: Received By:	T LASSE. In the swart shall Cardinal be liable for indicated or consequental damages, including whost limitation, business interruptions, loss of use, or loss of profess incurred by deferring stated damages, including without limitation, business interruptions, loss of use, or loss of profess incurred by deferring stated damages, including without limitation, business interruptions, loss of use, or loss of profess incurred by deferring stated damages, including without limitation, business interruptions, loss of use, or loss of professions or observeds.	and Damabes, Cardinal's leadily and client's exclusive remedy, for any claim arising whether based in contract or but, shall be limited to the amount paid by the client for the	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6 1 1 10-17	7	G V V W-17	C V V V V V V V V V V V V V V V V V V V	6 1 1 1 1 1 1 1 1 1 1	C V V 0-77	6 1 1 1 10-17	6 / / / / / / / / / / / / / / / / / / /	G V V 10-17	# C GF W/ SC O SL O	CON ROU AST DIL LUD THE	TAINE NDWA EWAT GE R: BASE:	TER	MATRIX PRESERV. SAMPLING	Fax #	Phone #:	State: Zip:	Project Owner: COM City:	(#: Address:	State: WM Zip: \$0340 Attn:	Company:	P.O.# COPC		
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Sample Condition
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Sample Condition
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Delivered By: (Circle One)

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

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