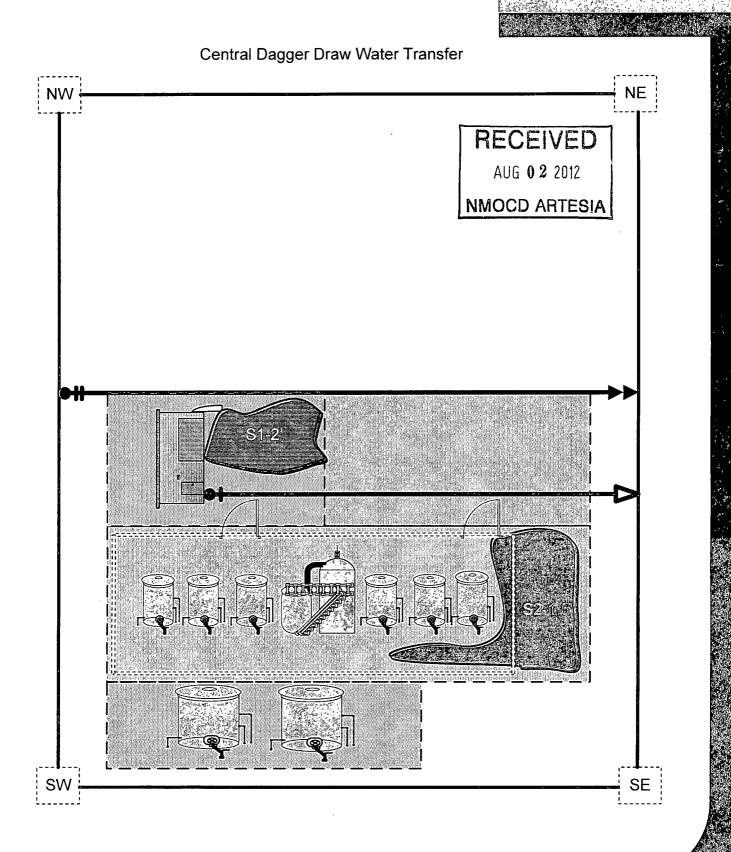
# YATES PETROLEUM CORPORATION

Wednesday, August 01, 2012



# Central Dagger Draw Water Transfer (Bates Water Transfer)

Analytical Report-	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1-2°	7/20/2012	2'	ND	ND	91.3	91.3	1310
S2-1.5°	7/20/2012	1.5'	283.77	3790	1410	5200	576

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 260', per NMOSE).

All results are ppm.Chlorides for documentation.

Spill 1 - Released: 30 B/PW, Recovered: 20 B/PW. Release Date: 7/16/2012

Spill 2 - Released: 1 B/O, 40 B/PW; Recovered: 1 B/O, 30 B/ PW. Release Date: 7/17/2012

<sup>\*</sup> Cells highlighted in red indicate soil removed.



**LUPE CARRASCO** 

Yates Energy Petroleum Corp 105 S 4th Street

Artesia, NM 88210

RE: CENTRAL DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 07/23/12 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

Celey & Keine

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



Yates Energy Petroleum Corp **LUPE CARRASCO** 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

07/23/2012

Sampling Date:

07/20/2012

Reported:

07/30/2012

Sampling Type:

Soil

Project Name:

CENTRAL DAGGER DRAW WATER TRANS

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 1 1/2 (H201696-01)

Chloride, SM4500Cl-8

mg/kg

Analyzed By: AP

Analyte

Result

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

3.92

Qualifier

Chloride

576

16.0

Reporting Limit

07/27/2012

ND

400

100

400

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celey D. Kune

Page 2 of 4



ND

#### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-8 does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keine

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST



# **ARDINAL LABORATORIES** 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

	Project Manager:	Lupe Carrasco	).					<u> </u>						• .				Proj	ect t	lam	θ: <u></u>	Ce	ntra	i Da	igge	er Dr	aw	Wate	er T	rans	fer
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	Company Address:	105 South 4th	Street						,					: ."		· ,		Pr	ojec	t Lo	c:									**	
	City/State/Zip:	Artesia, NM 8	38210	• • •					•											PO	#: <u>1</u> (	03-16	3		•:				+ 2 -		
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LUPE CARRASCO

Yates Energy Petroleum Corp 105 S 4th Street

Artesia, NM 88210

RE: CENTRAL DAGGER DRAW WATER TRANSFER

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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.

Celey D. Keens

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Sincerely,

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Yates Energy Petroleum Corp LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

(505) 748-4635 Fax To:

Received:

07/23/2012

Sampling Date:

07/20/2012

Reported:

Sampling Type:

Soil

07/30/2012

Project Name:

CENTRAL DAGGER DRAW WATER TRANS

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 1 1/2 (H201696-01)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.47	1.00	07/30/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	74.6	1.00	07/30/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	32.7	1.00	07/30/2012	ND	1.90	95.2	2.00	1.09	
Total Xylenes*	169	3.00	07/30/2012	ND	5.82	97.1	6.00	2.32	
Surrogate: 4-Bromofluorobenzene (PID	140	% 89.4-12	6						
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3790	50.0	07/26/2012	ND	188	94.0	200	5.62	
DRO >C10-C28	1410	50.0	07/26/2012	ND	198	99.0	200	5.46	
Surrogate: 1-Chlorooctane	130	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	121	% 63.6-15	4						

\*=Accredited Analyte Cardinal Laboratories

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Celey D. Keine



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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST



# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505):393-2326 FAX (505) 393-2476

	Project Manager:	Lupe Carrasco	)				· .							·			<u> </u>		Proje	ect N	lame	:	Cen	tral	Dag	ger	Drav	<u>v W</u>	/ate	Trar	nsfer	
,	Comp: (505) 393-2320	EYates Petroleu	ım Corporation	1	`						· ·									Proj	ect #	:	<u></u>		·				<del></del>			
	Company Address:	105 South 4th	Street												·				Pre	ojeci	Loc											
	City/State/Zip:	Artesia, NM 8	88210				• :		<u> </u>	·		٠									PO#	: <u>10</u>	3-16	3				· ·				
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	Sampler Signature:		ر بربیدین	مانسس تاسره				•	-mail	:	lca	ırra	scc	)@h	otm	ail.c	<u>om</u>		•.	:												
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LUPE CARRASCO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

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Sincerely,

Celey D. Keene





Yates Energy Petroleum Corp LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

ï

07/23/2012

Sampling Date:

07/20/2012

Reported:

07/30/2012

Sampling Type:

Soil

Project Name:

CENTRAL DAGGER DRAW WATER TRANS

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: S1 - 2 (H201695-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP				··-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	07/27/2012	ND	400	100	400	<b>3.</b> 92	

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keine

# ARDIN 101 Fa

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

	Project Manager:	Lupe Carrasco				······································											P	roje	ct N	ame	e:	Ce	entr	al D	)agç	jer [	)rav	√Wa	ter	Trans	sfer		
	Compt (505) 393-232	f Yates Petroleum Corp	oration							-,						_																	
	Company Address:	105 South 4th Street														_		Pro	ject	Lo	c:_												
	City/State/Zip:	Artesia, NM 88210														_			-			03-1											
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LUPE CARRASCO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: CENTRAL DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 07/23/12 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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



Yates Energy Petroleum Corp **LUPE CARRASCO** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

07/23/2012

Sampling Date:

07/20/2012

Reported:

07/30/2012

Sampling Type:

Soil

Project Name:

CENTRAL DAGGER DRAW WATER TRANS

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1 - 2 (H201695-01)

BTEX 8021B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	<0.050	0.050	07/29/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/29/2012	ND	1.90	95.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/29/2012	ND	5.82	97.1	6.00	2.32	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/26/2012	ND	188	94.0	200	5.62	
DRO >C10-C28	91.3	50.0	07/26/2012	ND	198	99.0	200	5.46	
Surrogate: 1-Chlorooctane	73.2	% 65.2-14	0				******		

Surrogate: 1-Chlorooctadecane

110 %

63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celeg & Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chioride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by 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 liable for incidental or consequential damages, including, without limitation, business Interruptions, loss of or list, or loss of profits Incurred by client, its subclidaries, 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 D Keene



# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476

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	Compt (505) 393-232			n													-													_			
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## Bratcher, Mike, EMNRD

From:

Lupe Carrasco < LCarrasco@yatespetroleum.com>

Sent:

Thursday, August 02, 2012 3:47 PM

To:

Bratcher, Mike, EMNRD

Subject:

Central Dagger Draw Water Transfer (Bates Water Transfer)

#### Mike,

As per our conversation regarding the two spills associated with the Central Dagger Draw Water Transfer (Spill 1 & Spill 2), the following actions will be taken:

Spill 1 – Based on analytical data I will begin to backfill excavated area and submit C-141 for closure of the impacted area. Impacted area has been excavated to a depth of 2' where we hit bedrock.

Spill 2 - Based on analytical data I will leave the excavated area open for at least another week at which point I will resample and submit for TPH and BTEX analysis. TPH levels where about 200 ppm over the permissible level of 5000 ppm and BTEX was over the permissible level for closure. Impacted area has been excavated down to bedrock. Remnant soil will be sampled and submitted for analysis in hopes that BTEX will be lower than 100 ppm.

#### Thanks!

Lupe Carrasco

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4350

Fax: (575) 748-4131 Cell: (575) 513-9074

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8/2/12 Meet of Cupe of Yates - Foster AN Dtry tested in bry pulled liner up & tested exempted 6"-1 in spillars & tested - truly tril OK - will replace (ind partin & backfill or vice years, Cent Dryger Brow X Fer 25 pills C-14(5 have not been provend on both polisses, - notherif was excavated to bed rock 5-1 propose to mettill 5-2 " to instrell a linear for "CAPah bassia" Asked to resomple 52 due to elevated BIEN & TPH