Lupe Carrasco

From: Sent: To: Cc: Subject:

Lupe Carrasco Monday, September 30, 2013 3:28 PM Katie Parker Bob Asher North Dagger Draw Water Transfer

Katie,

Here is a rundown of the release on the North Dagger Draw Water Transfer.

This release occurred on August 8, 2013, and was reported as 7 B/O release with 6 B/O recovered. The cause of the release was due to the system backing up causing water to flow into the oil tank on site. The valve on the tank had been closed and showed to be closed, but the valve mechanism failed allowing produced water to fill the tank and over flow. Upon notification, vacuum trucks recovered standing fluid and drained the tank. The initial excavation consisted of 1' of impacted material removed. Delineation of the impacted area showed high levels of BTEX and TPH down to 5' which lead to the speculation that the tank had been leaking aside from the spilled material. The tank was cleaned out and recoated. I am scheduling a coring unit to determine the amount of impaction and plan to develop a work plan based on this information. With the levels found at this point, the oil tank would need to be temporarily removed for excavation. Based on sample results upon coring, will help us determine the extent of contamination. As for the entire battery, I believe OCD would allow us to leave it in place until the time of abandonment at which point OCD would require further sampling and cleanup. I have stopped any further excavation until I sample with the coring unit to determine the extent of impaction until to determine the extent of impaction.

Let me know if you have any questions.

Thanks!

Lupe Carrasco Environmental Regulatory Agent Yates Petroleum Corporation Office: (575) 748-4350 Fax: (575) 748-4131 Cell: (575) 513-9074 MARTIN YATES, 11

FRANK W YATES

5.P YATES



JOHN A. YATES CHAIRMAN OF THE BOARD

JOHN A, YATES JR,

JOHN D. PERINI EXECUTIVE WILD' MONETIZATION ENJEF FINANCIAL OFFICER

JAMES 5, BROWN

105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO BB210-2118

TELEPHONE (575) 748-1471

April 16, 2014

Mr. Mike Bratcher NMOCD District II 811 S. First St. Artesia, NM 88210

RECEIVED APR 22 2014 NMOCD ARTESIA

Re: North Dagger Draw Water Transfer Section 20, T19S-R25E Eddy County, New Mexico

Dear Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated August 16, 2013.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of April 25, 2014.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle Environmental Regulatory Agent

Enclosure(s)

Yates Petroleum Corporation

North Dagger Draw Water Transfer Work Plan

Section 20, T19S-R25E

Eddy County, New Mexico

April 16, 2014

Page 3 of 86

Received by OCD: 4/4/2023 9:35:26 AM

I. Location

The water transfer is located approximately 13 miles south of Artesia and 7 miles west on Rocking R Red Road.

II. Background

On August 16, 2013, Yates submitted to the NMOCD District II office a Form C-141 for the release of 7 B/O with 6 B/O recovered. After sampling the release area, analytical results showed elevated levels of TPH and BTEX, which was determined to have come from a historical leak of an oil tank. The total affected area is approximately a 165 feet by 33 feet area within the location berm area. Initial delineation samples were taken (8/28/2013) and sent to a NMOCD approved laboratory (9/10/2013, results enclosed). Based on analytical results (9/10/2013), Yates Petroleum Corporation performed deeper more extensive sampling with a core rig (1/21/2014) and sent to a NMOCD approved laboratory (1/29/2014, results enclosed) to determine delineation of TPH and BTEX.

III. Surface and Ground Water

Area surface geology ranges from Cenozoic Quaternary to Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 20, T19S-R25E) that depth to groundwater is approximately 120' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (120'), and a decrease in TPH and BTEX, Yates Petroleum Corporation will excavate eight (8) feet of impacted soil within the release area and stockpile excavated soils to remediate the impacts of TPH and BTEX. Yates Petroleum Corporation will then take a composite sample at nine (9) feet and have it tested at a NMOCD approved laboratory to determine that remaining soils are under RRALs for the site ranking zero (0). If the sample is below RRAL, Yates Petroleum Corporation will stop excavating, if it is above RRAL then one more foot will be excavated. Stockpiled soil will be spread at a depth of one (1) foot on plastic, fertilizer will be added to the soil and watered in. Stockpile will be worked every 30 days using the bucket of a backhoe or loader, fertilized and watered at each turning, for a 90 day period when samples will be tested at NMOCD approved laboratory to determine if further remediation is needed. Yates Petroleum Corporation will then backfill with the remediated soil excavated from the location once soil tests are below RRALs. With TPH and BTEX being below the RRAL's at ten (10) feet, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.



Exc. 4' add a liner, backfill w/ caliche

Analytical Report-								
H302126	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
NDDWT S1-2	Release Area	8/28/2013	Backhoe	2'	556	2970	4310	208
NDDWTS1-3	Release Area	8/28/2013	Backhoe	3'	604	3/2/910	48310	32
NDDWTS1-4	Release Area	8/28/2013	Backhoe	4'	282	1,2310	2310	112
NDDWT S1-5'	Release Area	8/28/2013	Backhoe	5'	624	2690	3940	96
NDDWT \$2-2*	Release Area	8/28/2013	Backhoe	2'	132	847	2210	<16.0
NDDWT S2-3	Release Area	8/28/2013	Backhoe	3'	302	1(6(6))	3080	<16.0
NDDWT S2-4	Release Area	8/28/2013	Backhoe	4'	535	37/010	5840	<16.0
NDDWT S2-5'	Release Area	8/28/2013	Backhoe	5'	246	1300	2060	32
NDDWT S2-6'	Release Area	8/28/2013	Backhoe	6'	736	3,07/0	4620	48
NDDWT S2-7	Release Area	8/28/2013	Backhoe	7'	1100	11100	13300	80
NDDWTS2-8	Release Area	8/28/2013	Backhoe	8'	968	8430	10300	64
H302127								
NDDWT S3-2	Release Area	8/28/2013	Backhoe	2'	1230		14600	<16.0
NDDWT S3-3"	Release Area	8/28/2013	Backhoe	3'	1130	9260	12600	<16.0
NDDWT 53-4	Release Area	8/28/2013	Backhoe	4'	1260	12760	16200	<16.0
NDDWT S3-5	Release Area	8/28/2013	Backhoe	5'	1330	California and a second second	17900	<16.0
NDDWTS3-6'	Release Area	8/28/2013	Backhoe	6'	1450	15100	17800	<16.0
NDDWT S3-7	Release Area	8/28/2013	Backhoe	7'	512	4560	6270	48
H400211	Release Area	8/28/2013	Backhoe					
\$3-10 ¹	Release Area	8/28/2013	Backhoe	10'	<0.3	<10.0	<1.0.0	
\$3-15'	Release Area	8/28/2013	Backhoe	15'	<0.3	<10.0		N/A
\$3-20'	Release Area	8/28/2013	Backhoe	20'	1.1	<10.0	16.9	N/A
\$3-25	Release Area	8/28/2013	Backhoe	25'	<0.3	<10.0	19.8	N/A
S4-10'	Release Area	8/28/2013	Backhoe	10'	4.07	38.2	278	N/A
\$4-1/5"	Release Area	8/28/2013	Backhoe	15'	14.6	146	725	N/A
S4-20'	Release Area	8/28/2013	Backhoe	20'	13.1	202	992	N/A
\$4-23'	Release Area	8/28/2013	Backhoe	23'	0.999	15.7	264	N/A

Site Ranking is Zero (0). DTGW >100' (approx 150', Section 20, T19S-R25E, Trend Map) All results are ppm. Chlorides for documentation

Released: 7 B/0; Recovered: 6 B/O Release Date: 08/13/2013

Remore to 8' & Stockpill (6"-1' Spread) Composite q' sample, make sure BTEX + TPH are below



September 10, 2013

LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 11:30.

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 www.tceq.texas.gov/field/qa/lab_accred_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.

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,

Received by OCD: 4/4/2023 9:35:26 AM

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S1-2' (H302126-01)

BTEX 8021B	mg		Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	36.0	4.00	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	200	4.00	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	111	4.00	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	209	12.0	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	556	24.0	09/05/2013	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 108 %

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/05/2013	ND	416	104	400	0.00	
грн 8015М	mg,	/kg	Analyze	d By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2970	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	4310	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	112	% 65.2-14	0	<u></u>					
Surrogate: 1-Chlorooctadecane	143	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S1-3' (H302126-02)

BTEX 8021B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46.3	4.00	09/05/2013	ND	2,09	105	2,00	2.81	
Toluene*	221	4.00	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	118	4.00	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	219	12.0	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	604	24.0	09/05/2013	ND					

Analyzed By DM

Surrogate: 4-Bromofluorobenzene (PIL 107 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3290	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	4810	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	121	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	153	% 63.6-15	4						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S1-4' (H302126-03)

BTEX 8021B Analyte		mg/kg		Analyzed By: DW					
	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Benzene*	18,2	1.00	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	97.4	1.00	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	57.4	1.00	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	109	3.00	09/05/2013	ND	7.19	120	6.00	0.796	
	282	6.00	09/05/2013	ND					
Total BTEX	LOE								

89.4-126 119 % Surrogate: 4-Bromofluorobenzene (PIL

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1210	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	2310	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	142	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	14						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S1-5' (H302126-04)

BTEX 8021B	mg,	mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46,9	2,00	09/05/2013	ND	2.09	105	2.00	2.81	
	227	2.00	09/05/2013	ND	2,26	113	2.00	2.06	
Toluene*	119	2,00	09/05/2013	ND	2.38	119	2.00	1.62	
Ethylbenzene*	230	6.00	09/05/2013	ND	7.19	120	6.00	0.796	
Total Xylenes*	624	12.0	09/05/2013	ND					
Total BTEX	024	TEIO							

Analyzed By DW

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 117 %

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: DW/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2690	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	3940	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	176	% 65.2-14	0						
- Surrogate: 1-Chlorooctadecane	136	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S2-2' (H302126-05)

Analyzed By: DW mg/kg BTEX 8021B RPD Qualifier % Recovery True Value QC BS Method Blank Reporting Limit Analyzed Result Analyte 2,00 3.73 107 09/06/2013 ND 2.13 1.00 Benzene* 8.02 4.15 2.00 2.25 112 09/06/2013 ND 1.00 41.6 Toluene* 5.54 2.00 116 09/06/2013 ND 2,33 24.5 1.00 Ethylbenzene* 7.02 117 6.00 6,22 09/06/2013 ND 3,00 57.7 **Total Xylenes*** 09/06/2013 ND 132 6.00 **Total BTEX**

Surrogate: 4-Bromofluorobenzene (PID 117 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	847	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	2210	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	126	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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Celeg D. Keine

Cardinal Laboratories



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S2-3' (H302126-06)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.9	2.00	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	89.7	2.00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	64,5	2,00	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	130	6,00	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	302	12.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID 114 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	1660	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	3080	10.0	09/05/2013	ND	200	100	200	2,29	
Surrogate: 1-Chlorooctane	159	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	131	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported:	09/04/2013 09/10/2013	Sampling Date: Sampling Type:	08/28/2013 Soil Cool & Intact
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S2-4' (H302126-07)

BTEX 8021B	mg	тууку		Analyzea byr bit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30.3	4,00	09/06/2013	ND	2.13	107	2,00	3.73	
Toluene*	180	4,00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	107	4.00	09/06/2013	ND	2,33	116	2.00	5.54	
Total Xylenes*	218	12.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	535	24.0	09/06/2013	ND					

Analyzed By: DW

Surrogate: 4-Bromofluorobenzene (PIL 112 % 89.4-126

ma /ka

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP			e			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3700	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	5840	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	125	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	164	% 63.6-15	4						

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Celey D. Kune

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
---	---	--	--

Sample ID: NDDWT S2-5' (H302126-08)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.0	1.00	09/06/2013	ND	2,13	107	2.00	3.73	
Toluene*	79.1	1.00	09/06/2013	ND	2,25	112	2.00	4.15	
Ethylbenzene*	49.3	1.00	09/06/2013	ND	2,33	116	2.00	5.54	
Total Xylenes*	99.1	3,00	09/06/2013	ND	7.02	117	6.00	6,22	
Total BTEX	246	6.00	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 120 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1300	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	2060	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	135	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2 Soil Cool & I Jodi Her
Project Location.	NOT GIVEN		

Sample ID: NDDWT S2-6' (H302126-09)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	57.6	4.00	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	270	4.00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	137	4.00	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	271	12.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	736	24.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 113 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3070	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	4620	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	126	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	153	% 63.6-15	4						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Sample ID: NDDWT S2-7' (H302126-10)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	94.1	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	419	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	197	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	390	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1100	60.0	09/06/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11100	50.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	13800	50.0	09/05/2013	ND	200	100	200	2,29	
Surrogate: 1-Chlorooctane	192 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.5	% 63.6-15	4						

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSFI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S2-8' (H302126-11)

Analyzed By: DW BTEX 8021B mg/kg True Value QC RPD Qualifier Result Reporting Limit Analyzed Method Blank BS % Recovery Analyte 10.0 09/06/2013 ND 2.13 107 2,00 3.73 78.0 Benzene* 10.0 09/06/2013 ND 2.25 112 2.00 4,15 Toluene* 367 10.0 09/06/2013 ND 2,33 116 2.00 5.54 176 Ethylbenzene* 6.22 347 30.0 09/06/2013 ND 7.02 117 6.00 **Total Xylenes*** 60.0 09/06/2013 ND **Total BTEX** 968

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8430	50.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	10300	50.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	166	% 65.2-14	0						

63.6-154

Surrogate: 1-Chlorooctadecane 82.8 %

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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September 10, 2013

LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 11:00.

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 www.tceq.texas.gov/field/qa/lab_accred_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratories

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S3-2' (H302127-01)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·	90,6	10.0	09/06/2013	ND	2,13	107	2.00	3.73	
Benzene*	469	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Toluene*	226	10.0	09/06/2013	ND	2,33	116	2.00	5.54	
Ethylbenzene*	445	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total Xylenes*		60.0	09/06/2013	ND					
Total BTEX	1230	00.0	05/00/2015						

112 % 89.4-126 Surrogate: 4-Bromofluorobenzene (PIL

Chloride, SM4500CI-B	mg/	kģ	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/			······································			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·	9450	50.0	09/05/2013	ND	203	101	200	0,850	
GRO C6-C10 DRO >C10-C28	14600	50.0	09/05/2013	ND	200	100	200	2,29	
Surrogate: 1-Chlorooctane	184	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.2		4						

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S3-3' (H302127-02)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	95.9	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
	429	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Toluene*	204	10.0	09/06/2013	ND	2,33	116	2.00	5.54	
Ethylbenzene*	403	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total Xylenes*	1130	60.0	09/06/2013	ND					
Total BTEX	1100	2510							

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 112 %

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
Chloride TPH 8015M	mg/kg		Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9260	10.0	09/05/2013	ND	203	101	200	0,850	
DRO >C10-C28	12600	10.0	09/05/2013	ND	200	100	200	2,29	
Surrogate: 1-Chlorooctane	382	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	91.3	% 63.6-15	4						

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Surrogate: 1-Chlorooctadecane

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S3-4' (H302127-03)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	107	10.0	09/06/2013	ND	2,13	107	2.00	3,73	
Foluene*	479	10.0	09/06/2013	ND	2,25	112	2.00	4.15	
Ethylbenzene*	230	10.0	09/06/2013	ND	2,33	116	2.00	5.54	
fotal Xylenes*	445	30.0	09/06/2013	ND	7,02	117	6.00	6.22	
Total BTEX	1260	60.0	09/06/2013	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 109 %

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						w
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12700	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	16200	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	464	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.7	% 63.6-15	:4						

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
---	--	--	--

Sample ID: NDDWT S3-5' (H302127-04)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
	125	10.0	09/06/2013	ND	2.13	107	2,00	3.73	
Benzene*	519	10.0	09/06/2013	ND	2,25	112	2.00	4.15	
Toluene*	233	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Ethylbenzene*	455	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total Xylenes*		60.0	09/06/2013	ND					
Total BTEX	1330	00.0	05/00/2015						

Surrogate: 4-Bromofluorobenzene (PIL 89.4-126 112 %

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
Chloride TPH 8015M	mg/kg		Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	15300	50.0	09/05/2013	ND	203	101	200	0.850	
GRO C6-C10 DRO >C10-C28	17900	50.0	09/05/2013	ND	200	100	200	2.29	
	209	65.2-14							
Surrogate: 1-Chlorooctane									
Surrogate: 1-Chlorooctadecane	79.8	% 63.6-15	4						

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S3-6' (H302127-05)

BTEX 8021B	mg/kg		Analyzed By: Dw						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	134	10.0	09/06/2013	ND	2.13	107	2.00	3,73	
Benzene*	565	10.0	09/06/2013	ND	2.25	112	2.00	4,15	
Toluene*	257	10.0	09/06/2013	ND	2,33	116	2.00	5.54	
Ethylbenzene*		30.0	09/06/2013	ND	7.02	117	6.00	6,22	
Total Xylenes*	494		09/06/2013	ND					
Total BTEX	1450	60.0	09/00/2013	110					

Amply and By: DW

89.4-126 110 % Surrogate: 4-Bromofluorobenzene (PIL

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
Chloride TPH 8015M		<10.0 1010 mg/kg		Analyzed By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	15100	50.0	09/06/2013	ND	203	101	200	0.850	
GRO C6-C10 DRO >C10-C28	17800	50.0	09/06/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	216 9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	101 \$	63.6-15	54						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S3-7' (H302127-06)

BTEX 8021B	mg,	/kg	Analyze	а ву: очи					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	32,0	5.00	09/06/2013	ND	2.13	107	2.00	3,73	
Benzene*	183	5,00	09/06/2013	ND	2.25	112	2.00	4.15	
Toluene*	98,2	5.00	09/06/2013	ND	2.33	116	2.00	5.54	
Ethylbenzene*	199	15.0	09/06/2013	ND `	7.02	117	6.00	6.22	
Total Xylenes*		30.0	09/06/2013	ND					
Total BTEX	512	30.0	05/00/2020						

Applyzed By: DW

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 110 %

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/05/2013	ND	416	104	400	0.00	
Chioride TPH 8015M	mg,		Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	4560	10.0	09/06/2013	ND	203	101	200	0.850	
GRO C6-C10 DRO >C10-C28	6270	10.0	09/06/2013	ND	200	100	200	2.29	
DRO >C10-C28				ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	130	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	172	% 63.6-15	4						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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Received by OCD: 44/2023 9:35:26 AM

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January 29, 2014 LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 01/23/14 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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.

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,

Received by OCD: 4/4/2023 9:35:26 AM

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

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CARDINAL Laboratories

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

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	01/23/2014 01/29/2014 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2014 Soil Cool & Intact Kathy Perez
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Sample ID: S3-10' (H400211-01)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2,38	119	2.00	2.71	
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	<0.300	0.300	01/27/2014	ND					

Analyzed By: MS

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	88.0	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	92.0	% 63.6-15	4						

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	01/23/2014 01/29/2014 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2014 Soil Cool & Intact Kathy Perez
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Sample ID: S3-15' (H400211-02)

Analyzed By: MS mg/kg BTEX 8021B Qualifier RPD True Value QC % Recovery Method Blank BS Analyzed Reporting Limit Result Analyte 2.00 2.71 119 ND 2.38 01/27/2014 0.050 <0.050 Benzene* 2.00 2.39 117 2.34 01/27/2014 ND 0.050 <0.050 Toluene* 2,00 2.31 2,34 117 ND 01/27/2014 0.050 0.064 Ethylbenzene* 6.00 2.76 112 6,73 01/27/2014 ND 0.150 0.160 **Total Xylenes*** 01/27/2014 ND 0.300 <0.300 Total BTEX 89.4-126 113 % Surrogate: 4-Bromofluorobenzene (PIL

Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	05	70 Recovery	The value de	NE	Quanner
14 ND	207	104	200	3.73	
14 ND	204	102	200	2.46	

63.6-154

92.8 %

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Surrogate: 1-Chlorooctadecane

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2.46

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	01/23/2014 01/29/2014 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2014 Soil Cool & Intact Kathy Perez
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Sample ID: S3-20' (H400211-03)

BTEX 8021B	mg/	kg	Analyzed By: MS					5-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2014	ND	2.38	119	2.00	2.71		
Toluene*	0.082	0.050	01/29/2014	ND	2.34	117	2.00	2,39		
Ethylbenzene*	0,296	0.050	01/29/2014	ND	2,34	117	2.00	2.31		
Total Xylenes*	0,722	0.150	01/29/2014	ND	6.73	112	6.00	2.76		
Total BTEX	1.10	0.300	01/29/2014	ND						
Surrogate: 4-Bromofluorobenzene (PIL	133 9	% 89.4-12	26							
TPH 8015M	mg/kg		Analyzed By: ms					<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73		
GKO CO-CIO								2.40		

01/24/2014

10.0

65.2-140

63.6-154

16.9

84.4 %

84.3 %

ND

204

Cardinal Laboratories

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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5-04

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	01/23/2014 01/29/2014 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2014 Soil Cool & Intact Kathy Perez
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Sample ID: S3-25' (H400211-04)

	'kg	Analyzed By: MS					S-04	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/29/2014	ND	2.38	119	2.00	2.71	
	0.050	01/29/2014	ND	2,34	117	2.00	2.39	
	0.050	01/29/2014	ND	2.34	117	2.00	2.31	
<0.150	0.150	01/29/2014	ND	6.73	112	6.00	2.76	
<0.300	0.300	01/29/2014	ND					
	mg/ Result <0.050 <0.050 <0.050 <0.150	mg/kg Result Reporting Limit <0.050	mg/kg Analyze Result Reporting Limit Analyzed <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed By: MS BS % Recovery True Value QC RPD <0.050

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 112 %

TPH 8015M mg/								
Analyte Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10 <10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28 19.8	10.0	01/24/2014	ND	204	102	200	2.46	

63.6-154

93.0%

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Surrogate: 1-Chlorooctadecane

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
	NONE GIVEN	Sample Received By:	Kathy Perez
Project Number:	,	,	
Project Location:	NOT GIVEN		

Sample ID: S4-10' (H400211-05)

BTEX 8021B	mg,	'kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	0.270	0.050	01/27/2014	ND	2,34	117	2.00	2.39	
Ethylbenzene*	1.00	0.050	01/27/2014	ND	2.34	117	2,00	2.31	
rotal Xylenes*	2.80	0,150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	4.07	0.300	01/27/2014	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 157 %

TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	38.2	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	278	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	89.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Project Name: NORTH DAGGER DRAW WATER TRANSFI San	inpling condition	Soil Cool & Intact Kathy Perez
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Sample ID: S4-15' (H400211-06)

BTEX 8021B	- mg/	'kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	1.68	0.100	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	3.69	0.100	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	9.27	0.300	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	14.6	0.600	01/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 164 % 89.4-126

TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	146	50.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	725	50.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.7	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager
Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	01/23/2014 01/29/2014 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2014 Soil Cool & Intact Kathy Perez
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Sample ID: S4-20' (H400211-07)

Analyte Resul Benzene* <0.20		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.200							
Defizerie) 0.200	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene* 1.08	0.200	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene* 3.38	0,200	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes* 8.69	0.600	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX 13.1	1.20	01/27/2014	ND					

TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	202	50.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	992	50.0	01/24/2014	ND	204	102	200	2.46	·····
Surrogate: 1-Chlorooctane	98.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.7	% 63.6-15	4						

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S-04

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	01/23/2014 01/29/2014 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2014 Soil Cool & Intact Kathy Perez
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Sample ID: S4-23' (H400211-08)

Analyzed By: MS

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	0.076	0.050	01/27/2014	ND	2.34	117	2.00	2,39	
Ethvlbenzene*	0.245	0.050	01/27/2014	ND	2,34	117	2.00	2.31	
Total Xylenes*	0.678	0.150	01/27/2014	ND	6,73	112	6.00	2.76	
Total BTEX	0.999	0,300	01/27/2014	ND					

123 % Surrogate: 4-Bromofluorobenzene (PIL

89.4-126

TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	15.7	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	264	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	79.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.1	% 63.6-15	4						

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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Received by OCD: 4/4/2023 9:35:26 AM



September 10, 2013

LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 11:30.

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 www.tceq.texas.gov/field/qa/lab 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 www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Project Name: NORTH DAGGER DRAW WATER TRANSFI Sar	diffpling condition	Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S1-2' (H302126-01)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	36.0	4.00	09/05/2013	ND	2.09	105	2.00	2.81	
Foluene*	200	4.00	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	111	4.00	09/05/2013	ND	2.38	119	2.00	1.62	
Fotal Xylenes*	209	12.0	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	556	24.0	09/05/2013	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 108 %

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2970	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	4310	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	112	% 65.2-14	0						

63.6-154

143 % Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S1-3' (H302126-02)

BTEX 8021B Analyte		mg/kg		Analyzed By: DW					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46,3	4.00	09/05/2013	ND	2.09	105	2.00	2.81	
	221	4.00	09/05/2013	ND	2.26	113	2.00	2.06	
Toluene*	118	4.00	09/05/2013	ND	2,38	119	2,00	1.62	
Ethylbenzene*	219	12.0	09/05/2013	ND	7.19	120	6.00	0.796	
Total Xylenes*	604	24.0	09/05/2013	ND					
Total BTEX	004	2110							

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 107 %

mg/kg		Analyzed By: AP							
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
32.0	16.0	09/05/2013	ND	416	104	400	0.00		
mg/kg		Analyzed By: DW/							
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
	10.0	09/05/2013	ND	202	101	200	2.21		
	Result 32.0 mg/ Result	Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit	Result Reporting Limit Analyzed 32.0 16.0 09/05/2013 mg/kg Analyze Result Reporting Limit Analyzed	Ing/kg Method Blank 32.0 16.0 09/05/2013 ND mg/kg Analyzed By: DW/ Result Reporting Limit Analyzed Method Blank 0 09/05/2013 ND ND 0 09/05/2013 ND ND	Ing/rg Analyzed Method Blank BS 32.0 16.0 09/05/2013 ND 416 mg/kg Analyzed By: DW/ Result Reporting Limit Analyzed Method Blank BS 202 0.0 0.0 0.0 0.0 0.0 0.0 202 0.0 0.0 0.0 0.0 0.0 0.0 202 0.0 0.0 0.0 0.0 0.0 0.0	Ing/rg Method Blank BS % Recovery 32.0 16.0 09/05/2013 ND 416 104 mg/kg Analyzed By: DW/ DW/ Result Reporting Limit Analyzed Method Blank BS % Recovery 0 09/05/2013 ND 416 104 0 Method Blank BS % Recovery 0 09/05/2013 ND 202 101	Ing/Kg Method Blank BS % Recovery True Value QC 32.0 16.0 09/05/2013 ND 416 104 400 mg/kg Analyzed By: DW/ Example Example Example Example Example Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <	Inig/kg Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 09/05/2013 ND 416 104 400 0.00 mg/kg Analyzed By: DW/ Example Example Example Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 20/05/0010 ND 202 101 200 2.21	

63.6-154

153 %

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson	
Project Location:	NOT GIVEN			

Sample ID: NDDWT S1-4' (H302126-03)

BTEX 8021B Analyte		mg/kg		Analyzed By: DW					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.2	1.00	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	97.4	1.00	09/05/2013	ND	2.26	113	2,00	2.06	
Ethylbenzene*	57.4	1.00	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	109	3.00	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	282	6.00	09/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 119 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1210	10.0	09/05/2013	ND	202	101	200	2,21	
DR0 >C10-C28	2310	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	142	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:09/04/2013Reported:09/10/2013Project Name:NORTH DAGGER DRAW WATER TRANSF!Project Number:NONE GIVENProject Location:NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S1-5' (H302126-04)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46.9	2,00	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	227	2.00	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	119	2.00	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	230	6.00	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	624	12.0	09/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2690	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	3940	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	176 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1369	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S2-2' (H302126-05)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·	8,02	1.00	09/06/2013	ND	2.13	107	2.00	3.73	
Benzene*	41.6	1.00	09/06/2013	ND	2,25	112	2.00	4.15	
Toluene*	24.5	1.00	09/06/2013	ND	2,33	116	2.00	5.54	
Ethylbenzene*	57.7	3.00	09/06/2013	ND	7.02	117	6.00	6.22	
Total Xylenes*	132	6.00	09/06/2013	ND					
Total BTEX	102	0.00							

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 117 %

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: DW/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	847	10.0	09/05/2013	ND	202	101	200	2.21	
DRO >C10-C28	2210	10.0	09/05/2013	ND	194	97.2	200	2.41	
Surrogate: 1-Chlorooctane	126	% 65.2-14	0						

63.6-154

116% Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S2-3' (H302126-06)

BTEX 8021B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.9	2,00	09/06/2013	ND	2.13	107	2.00	3,73	
	89.7	2,00	09/06/2013	ND	2,25	112	2.00	4.15	
Toluene*	64,5	2,00	09/06/2013	ND	2,33	116	2.00	5.54	
Ethylbenzene*	130	6,00	09/06/2013	ND	7.02	117	6.00	6.22	
Total Xylenes*	302	12.0	09/06/2013	ND					
Total BTEX	302	12.0							

Amplumed Bur DW

Surrogate: 4-Bromofluorobenzene (PIL 89.4-126 114 %

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1660	10.0	09/05/2013	ND	203	101	200	0.850	
DR0 >C10-C28	3080	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	159	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	131	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



'n.

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF ^I NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S2-4' (H302126-07)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30,3	4.00	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	180	4.00	09/06/2013	ND	2,25	112	2,00	4.15	
Ethylbenzene*	107	4,00	09/06/2013	ND	2,33	116	2,00	5.54	
Total Xylenes*	218	12.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	535	24.0	09/06/2013	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 112 %

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3700	10.0	09/05/2013	ND	203	101	200	0.850	
DR0 >C10-C28	5840	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	125	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	164	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

ER DRAW WATER TRANSFI Sampling Condition.	ool & Intact odi Henson
энцист	Celeived by.

Sample ID: NDDWT S2-5' (H302126-08)

BTEX 8021B		/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.0	1.00	09/06/2013	ŃD	2,13	107	2.00	3.73	
Toluene*	79.1	1.00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	49.3	1.00	09/06/2013	ND	2,33	116	2.00	5.54	
Total Xylenes*	99.1	3.00	09/06/2013	ND	7,02	117	6.00	6.22	
Total BTEX	246	6.00	09/06/2013	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 120 %

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1300	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	2060	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	135	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

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Surrogate: 1-Chlorooctadecane

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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF ^I NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S2-6' (H302126-09)

BTEX 8021B		/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	57.6	4,00	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	270	4.00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	137	4.00	09/06/2013	ND	2,33	116	2.00	5.54	
Total Xylenes*	271	12.0	09/06/2013	ND	7,02	117	6.00	6.22	
Total BTEX	736	24.0	09/06/2013	ND					

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 113 %

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					Qualificat
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3070	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	4620	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	126	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	153	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
---	--	--	--

Sample ID: NDDWT S2-7' (H302126-10)

BTEX 8021B mg/kg Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	94.1	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	419	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	197	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	390	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1100	60.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 89.4-126

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/05/2013	ND	416	104	400	0.00		
TPH 8015M	mg/	/kg	Analyzed By: DW/						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	11100	50.0	09/05/2013	ND	203	101	200	0.850		
DR0 >C10-C28	13800	50.0	09/05/2013	ND	200	100	200	2.29		
Surrogate: 1-Chlorooctane	192 :	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	83.5	% 63.6-15	4							

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 14

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

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSFI NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
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Sample ID: NDDWT S2-8' (H302126-11)

mg/kg

166 %

82.8 %

Result

8430

10300

Reporting Limit

50.0

50.0

65.2-140

63.6-154

Analyzed By: DW mg/kg **BTEX 8021B** RPD Qualifier True Value QC % Recovery Analyzed Method Blank BS Reporting Limit Result Analyte 3.73 2.00 2.13 107 09/06/2013 ND 78,0 10.0 Benzene* 4.15 2.00 09/06/2013 ND 2,25 112 367 10.0 Toluene* 2.00 5.54 2.33 116 09/06/2013 ND 176 10.0 Ethylbenzene* 6.22 6.00 09/06/2013 ND 7.02 117 347 30.0 **Total Xylenes*** 09/06/2013 ND 60.0 968 **Total BTEX** 89.4-126 111 % Surrogate: 4-Bromofluorobenzene (PIL Analyzed By: AP mg/kg Chloride, SM4500Cl-B Qualifier True Value QC RPD % Recovery Method Blank BS Reporting Limit Result Analyzed Analyte 0.00 104 400 416 16.0 09/05/2013 ND 64.0 Chloride S-04 Analyzed By: DW/

Analyzed

09/05/2013

09/05/2013

8S

203

200

Method Blank

ND

ND

% Recovery

101

100

Cardinal Laboratories

TPH 8015M

GR0 C6-C10

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Analyte

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Released to Imaging: 4/5/2023 9:29:09 AM

Qualifier

RPD

0.850

2.29

True Value QC

200

200

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Celez Keine

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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Released to Imaging: 4/5/2023 9:29:09 AM

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Celey D. Keene, Lab Director/Quality Manager

Page 13 of 14

Page 54	- relinguished by:	D	Relinouished hv	Relinquished by: Date		Special Instructions	II				NDDWT S2-3'	S NDDWT S2-2'	NDDWT S1-5'	<u>. 19</u>	T INDUN ST-3		L'AB # (lab use only) Fil D CODE	URDER # H302126	Inabuse only)		Sampler Cinnet und		City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Compt (505) 393-232E Yates Petroleum Corporation	Project Manager: Lupe Carrasco	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES	
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of 86



September 10, 2013

LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 11:00.

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 www.tceq.texas.gov/field/qa/lab_accred_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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 9

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSFI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S3-2' (H302127-01)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	90.6	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	469	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	226	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	445	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1230	60.0	09/06/2013	ND				<u></u>	
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	б						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0,00	
TPH 8015M	mg/	kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	9450	50.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	14600	50.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	184 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.2 9	63.6-15	,						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
---	---	--	--

Sample ID: NDDWT S3-3' (H302127-02) malka

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	95,9	10.0	09/06/2013	ND	2,13	107	2.00	3.73	
	429	10.0	09/06/2013	ND	2,25	112	2.00	4.15	
Toluene*	204	10.0	09/06/2013	ND	2,33	116	2,00	5.54	
Ethylbenzene*	403	30.0	09/06/2013	ND	7.02	117	6,00	6.22	
Total Xylenes*	1130	60.0	09/06/2013	ND					
Total BTEX	1150	0010							

89.4-126 Surrogate: 4-Bromofluorobenzene (PIL 112 %

Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
Chionae TPH 8015M	mg	/kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	9260	10.0	09/05/2013	ND	203	101	200	0.850	
GRO C6-C10 DRO >C10-C28	12600	10.0	09/05/2013	ND	200	100	200	2.29	
							<u></u>		
Surrogate: 1-Chlorooctane	382								
Surrogate: 1-Chlorooctadecane	91.3	% 63.6-15	4						

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: Project Name: Project Number: Project Location:	09/04/2013 09/10/2013 NORTH DAGGER DRAW WATER TRANSF NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
Project Location.	Nor erren		

Sample ID: NDDWT S3-4' (H302127-03)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	107	10.0	09/06/2013	ND	2.13	107	2.00	3,73	
Toluene*	479	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	230	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	445	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1260	60.0	09/06/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 89.4-12	5						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12700	10.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	16200	10.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	1610	65.2-14	0						
	464 %	0 00.2 17	•						

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Celey D. Keene, Lab Director/Quality Manager

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Page 4 of 9



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:09/04/2013Reported:09/10/2013Project Name:NORTH DAGGER DRAW WATER TRANSFProject Number:NONE GIVENProject Location:NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/28/2013 Soil Cool & Intact Jodi Henson
--	--	--

Sample ID: NDDWT S3-5' (H302127-04)

mg/kg Analyzed By: DW BTEX 8021B RPD Qualifier True Value QC Method Blank BS % Recovery Reporting Limit Analyzed Result Analyte 3.73 2.00 107 09/06/2013 ND 2,13 125 10.0 Benzene* 2.00 4.15 2.25 112 09/06/2013 ND Toluene* 519 10,0 2.00 5.54 116 2,33 09/06/2013 ND 233 10.0 Ethylbenzene* 6.22 6.00 09/06/2013 ND 7.02 117 30.0 455 Total Xylenes* 09/06/2013 ND 1330 60.0 Total BTEX

Surrogate: 4-Bromofluorobenzene (PIE 112 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg	'kg	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15300	50.0	09/05/2013	ND	203	101	200	0.850	
DRO >C10-C28	17900	50.0	09/05/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	209	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	79.8	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID; NDDWT S3-6' (H302127-05)

BTEX 8021B	mg/kg		Analyzed By: DW				·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	134	10.0	09/06/2013	ND	2.13	107	2.00	3,73	
Toluene*	565	10.0	09/06/2013	ND	2.25	112	2.00	4,15	
Ethylbenzene*	257	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	494	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1450	60.0	09/06/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	89.4-12	б						
Chloride, SM4500CI-B	mg/l	(g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	15100	50.0	09/06/2013	ND	203	101	200	0.850	
DR0 >C10-C28	17800	50.0	09/06/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	216 %	65.2-140)			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
Surrogate: 1-Chlorooctadecane	101 %	63.6-154	(

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	09/04/2013	Sampling Date:	08/28/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSFI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NDDWT S3-7' (H302127-06)

BTEX 8021B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32,0	5.00	09/06/2013	ND	2.13	107	2.00	3,73	
Toluene*	183	5.00	09/06/2013	ND	2.25	112	2.00	4,15	
Ethylbenzene*	98.2	5.00	09/06/2013	ND	2,33	116	2,00	5,54	
Total Xylenes*	199	15.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	512	30.0	09/06/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6	· · · ·					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: DW/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4560	10.0	09/06/2013	ND	203	101	200	0.850	
DR0 >C10-C28	6270	10.0	09/06/2013	ND	200	100	200	2.29	
Surrogate: 1-Chlorooctane	130 %	65.2-14	0			·			
Surrogate: 1-Chlorooctadecane	172 %	63.6-15-	4						

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Released to Imaging: 4/5/2023 9:29:09 AM

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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Page 8 of 9



Received by OCD: 4/4/2023



January 29, 2014

LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 01/23/14 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 11



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSFI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S3-10' (H400211-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	<0.300	0.300	01/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	88.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.0	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 11



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S3-15' (H400211-02)

BTEX 8021B	1B mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	0.064	0.050	01/27/2014	ND	2,34	117	2.00	2.31	
Total Xylenes*	0.160	0.150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	<0.300	0.300	01/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 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	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	13.7	10.0	01/24/2014	ND	204	102	200	2,46	
Surrogate: 1-Chlorooctane	88.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.8	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S3-20' (H400211-03)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2014	ND	2.38	119	2.00	2.71	
Toluene*	0.082	0.050	01/29/2014	ND	2.34	117	2,00	2.39	
Ethylbenzene*	0.296	0.050	01/29/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	0.722	0.150	01/29/2014	ND	6.73	112	6.00	2.76	
Total BTEX	1.10	0.300	01/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	133	% 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	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	16.9	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	84.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.3	% 63.6-15	4						

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Celez D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S3-25' (H400211-04)

BTEX 8021B	mg/	kg	Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2014	ND	2.38	119	2.00	2.71		
Toluene*	<0.050	0.050	01/29/2014	ND	2.34	117	2.00	2,39		
Ethylbenzene*	<0.050	0.050	01/29/2014	ND	2.34	117	2.00	2.31		
Total Xylenes*	<0.150	0.150	01/29/2014	ND	6.73	112	6.00	2.76		
Total BTEX	<0.300	0.300	01/29/2014	ND						
Surrogate: 4-Bromofluorobenzene (PIL	112 9	6 89.4-12	6							
TPH 8015M	mg/	kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
		10.0								

-			-						
GR0 C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	19.8	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	87.0 %	65.2-1	40						
Surrogate: 1-Chlorooctadecane	93.0 %	63.6-1	54						

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte

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Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSFI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S4-10' (H400211-05)

BTEX 8021B	8021B mg/kg			Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	0.270	0.050	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	1.00	0.050	01/27/2014	ND	2.34	117	2.00	2,31	
Total Xylenes*	2.80	0.150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	4.07	0.300	01/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	157	% 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
GR0 C6-C10	38.2	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	278	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	89.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSFI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S4-15' (H400211-06)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	1.68	0.100	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	3.69	0.100	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	9.27	0.300	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	14.6	0.600	01/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	164	% 89.4-12	6						
TPH 8015M	mg	'kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	146	50.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	725	50.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0					· · · · · · · · · · · · · · · · · · ·	<u></u>
Surrogate: 1-Chlorooctadecane	91.7	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S4-20' (H400211-07)

Page 71 of 86

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	1.08	0.200	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	3.38	0.200	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	8.69	0.600	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	13.1	1.20	01/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	135 9	6 89.4-12	6						
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	202	50.0	01/24/2014	ND	207	104	200	3.73	
DR0 >C10-C28	992	50.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	98.3 9	65.2-14	0				<u> </u>		
Surrogate: 1-Chlorooctadecane	98.7 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte

Laboratories

Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	01/23/2014	Sampling Date:	01/21/2014
Reported:	01/29/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER TRANSF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S4-23' (H400211-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	0.076	0.050	01/27/2014	ND	2.34	117	2.00	2,39	
Ethylbenzene*	0.245	0.050	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	0.678	0.150	01/27/2014	ND	6.73	112	6.00	2,76	
Total BTEX	0.999	0.300	01/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	123 5	% 89.4-12	6	<u></u>					
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.7	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	264	10,0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	79.6	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	85.1	% 63.6-15	4						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager


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

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

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District 1 District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV <u>Dist</u> 122

Page 75 of 86

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State of New Mexico Energy Minerals and Natural Resources **Oil Conservation Division** 1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

<u>District IV</u> 1220 S. St. Frai	ncis Dr., Sant	a Fe, NM 8750		Sa	anta F	e, NM 87:	505			side of	
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Name of CompanyOGRID NumberYates Petroleum Corporation25575							800				
Address						Lupe Carrasco Telephone No.					
104 S. 4 TH Street						575-748-14					
Facility Na				API Number		Facility Ty	De			<u></u>	
North Dagger Draw Water Station Water Transfer Station											
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Surface OwnerMineral OwnerFeeN/A								N/A			
LOCATION OF RELEASE											
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public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.											
							<u>OIL CON</u>	SERVATIC		<u></u>	
Signature An Caused											
Printed Name: Lupe Carrasco											
Title: Environmental Regulatory Agent SEP 1 2013 Expiration Date: Expiration Date:											
		@vatespetrol				Conditions of				. –	
								D Rule &	Attached		
Date: Friday, August 16, 2013 Phone: 575-748-1471 Remediation per OCD Rule & Attach Additional Sheets If Necessary Guidelines. SUBMIT REMEDIATION 2RP-1900 JMW 1325435121 PROPOSAL NO LATER THAN: 2RP-1900											
in Wini	3254	3609	ク		7		~ III				

Chase Settle

From: Sent: To: Cc: Subject: Attachments: Chase Settle Thursday, April 30, 2015 4:04 PM mike.bratcher@state.nm.us Bob Asher North Dagger Draw Water Station H403877 YPC 12-23-14.pdf; H501078 YPC S2-22'.pdf

Mike,

As per the modified plan of remediation for the North Dagger Draw Water Station that was agreed to onsite during the February 6, 2015 meeting between you, Bob Asher, and myself, the S2 area was excavated as deep as practicable (approximately 20') and the excavation was treated with a 3% MicroBlaze solution. This was accomplished on March 18, 2015 and sampling was conducted in the bottom of the excavation at 22' on April 23, 2015. The results (4/30/2015 results attached) of that sampling show that BTEX is <0.300, GRO is <10.0, and DRO is 284. With results showing to be under RRALs and a solid rock layer at 23' that was impenetrable by a core rig during previous sampling conducted at the site, YPC will now move forward with backfilling the open excavation with remediated soil (12/23/2014 results attached) from the previous excavation (2RP-1900). YPC will continue with remediation of the soil excavated (9'-20') in the S2 area and will submit Final C141s for the 2RP-1900 and 2RP-2616 (revised scope of work and analytical data) releases once soil remediation and final backfill is complete. A contractor will be notified to begin backfill on May 4, 2015 using the previously remediated soil.

Thanks,

Chase Settle

Environmental Regulatory Agent Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



April 30, 2015

CHASE SETTLE YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER STATION

Enclosed are the results of analyses for samples received by the laboratory on 04/24/15 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab 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.

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,

Celeg D. Keene

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/24/2015	Sampling Date:	04/23/2015
Reported:	04/30/2015	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 22' (H501078-01)

Analyzed By: ms BTEX 8021B mg/kg RPD Qualifier BS % Recovery True Value QC Analyte Result Reporting Limit Analyzed Method Blank 2.00 1.54 2.01 101 < 0.050 0.050 04/28/2015 ND Benzene* 1.80 90.0 2.00 1.15 04/28/2015 ND <0.050 0.050 Toluene* 04/28/2015 ND 1.70 85.1 2.00 1.07 <0.050 0.050 Ethylbenzene* 91.1 6.00 1.01 04/28/2015 5.47 Total Xylenes* <0.150 0.150 ND 04/28/2015 ND 0.300 <0.300 Total BTEX

Surrogate: 4-Bromofluorobenzene (PIL 119 % 61-154 Analyzed By: MS TPH 8015M mg/kg RPD Qualifier True Value QC Reporting Limit Method Blank BS % Recovery Result Analyzed Analyte 200 1.48 10.0 04/27/2015 ND 215 108 <10.0 GRO C6-C10 200 2.09 284 10.0 04/27/2015 ND 228 114 DRO >C10-C28 95.1 % 47.2-157 Surrogate: 1-Chlorooctane 52.1-176 95.3 % Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

*=Accredited Analyte

Released to Imaging: 4/5/2023 9:29:09 AM

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 79 of 86

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

December 23, 2014

CHASE SETTLE YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: NORTH DAGGER DRAW WATER STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



True Value QC

RPD

Qualifier

Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	12/18/2014	Sampling Date:	12/15/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	NORTH DAGGER DRAW WATER STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		
Project Name: Project Number:	NORTH DAGGER DRAW WATER STATION	Sampling Condition:	Cool & Intact

Sample ID: STOCKPILE (H403877-01)

BTEX 8021B mg/kg Analyzed By: MS Method Blank BS Reporting Limit Analyzed % Recovery Analyte Result 0 000 0 000 12/22/2014 1 75 07 E F

Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5
Total BTEX	<0.300	0.300	12/22/2014	ND				

Surrogate: 4-Bromofluorobenzene (PIL 102 % 61-154

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	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92		
DR0 >C10-C28	387	387 10.0		ND	204	102	200	1.30		
Surrogate: 1-Chlorooctane	91.0	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	102	% 52.1-17	6							

*=Accredited Analyte

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Celeg D. Keene

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

Page 84 of 86	Relinquished by:	- Relinquished by:	Relinquished by	special instructions:						Stockpile	LAB # (lab use only)	ORDER#: 110001	(lab use only)		Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Compt (505) 393-232t Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	7
	Date Ti	Date Ti	Date Ti		_						Beginning Depth	-					8210	Street	n Corporation		88240	
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-		C	en						1	1 X	Total #. of Containers Ice HNO ₃ HCI	Preservation			csettle@yat	575-748-4131				1999 E.		
			12					 			H ₂ SO ₄ NaOH Na ₂ S ₂ O ₃ None Other (Specify)	vation & # of Containers			yatespetroleum.com							HAIN OF CUS
	Date Time		14 4	-					_	x s	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other TPH: 418.1 8015M 801 TPH: TX 1005 TX 1006	Matrix 5B		Т	1.com	_ Report Format:		Project Loc:	Project #:	. Project Name:		TODY RECOR
35:26 AM	Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	I aboratory Con						Cations (Ca, Mg, Na, K) Anions (CI, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg S	Se	TOTAL:			at: X Standard	PO #: 205-0750		ct #:			CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
D: 4/4/2023 9:	oon Receipt:	nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DHL	n container(s) n cooler(s)	ers Intact? eadspace?	nments:					×	Volatiles Semivolatiles BTEX 8021B/5030 or BTEX 820 RCI N.O.R.M.	60		Analyze For:		TRRP		North Dagger Draw Water		North Dagger Draw Water Station		SIS REQUEST
Received by OCD: 4/4/2023 9:35:26 AM	5.2 0	FedEx Lone Star	} 8	90 2 z z						×	Chlorides SAR RUSH TAT (Pre-Schedule) 24 Standard TAT	1, 48,	72 hrs			NPDES		ater Station	Pa	ater Station 4	of 4	

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

	OPER	ATOR	Initial Report	\boxtimes	Final Report
Name of Company	OGRID Number	Contact			
Yates Petroleum Corporation	25575	Chase Settle			
Address		Telephone No.			
104 S. 4 TH Street		575-748-4171			
Facility Name	Facility Type				
North Dagger Draw Water Station		Water Transfer Station			Wanneles
Surface Owner	Mineral Owner		Lease No.		
Fee	N/A		N/A		
	LOCATIO	ON OF RELEASE			

Unit Letter
KSection
20Township
19SRange
25EFeet from the
-North/South Line
-Feet from the
-East/West Line
EddyCounty
Eddy

Latitude 32.64091 Longitude 104.51321

NATURE	C OF RELEASE		
Type of Release	Volume of Release	Volume Re	covered
Crude Oil	7 B/O	6 B/O	
Source of Release	Date and Hour of Occurrence		lour of Discovery
Tank	8/8/2013 AM	8/8/2013	AM
Was Immediate Notice Given?	If YES, To Whom?		
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.	
🗌 Yes 🛛 No	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A			
Describe Cause of Problem and Remedial Action Taken.* Release was due to a valve failure. Lease Operator shut valve on flow li causing tank to overflow. Vacuum truck dispatched to recover standing	ne to tank. Valve showed to be close fluid.	d, but did not c	lose mechanism inside valve
Describe Area Affected and Cleanup Action Taken.* An approximate area of 30' X 20' was impacted. Impacted soils to be so delineation samples will be taken and analysis ran for TPH & BTEX, Ch BTEX are under RRAL's a Final Report, C-141 will be submitted to the plan will be submitted. Depth to Ground Water: >100' (approximate No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. release sketch enclosed with Work Plan) dated April 16, 2014 and ap	Norides will be run for documentation OCD requesting closure. If the analy ly 150', Section 20-T19S-R25E, per Based on completion of Work Play oproved April 22, 2014, Yates Petro	 If initial analytical results are Trend Map), n (scope of wo leum Corporation) 	lytical results for TPH & e above the RRAL's a work Wellhead Protection Area: rk, analytical data, and ation requests closure.
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective a he NMOCD marked as "Final Report ate contamination that pose a threat to	tions for relea does not relie ground water,	ases which may endanger we the operator of liability surface water, human health
Signature:	OIL CONSER	VATION	DIVISION
Printed Name: Chase Settle	Approved by District Supervisor:	Ashley	Maxwell
Title: NM Environmental Regulatory Agent	Approval Date: 4/5/2023	Expiration E	
E-mail Address: csettle@yatespetroleum.com	Conditions of Approval:		Attached
Date: Monday, June 29, 2015 Phone: 575-748-4171	2RP-		

* Attach Additional Sheets If Necessary

Received by OCD: 4/4/2023 9:35:26 AM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:					
EOG Y RESOURCES, INC.	25575					
104 S 4th St	Action Number:					
Artesia, NM 88210	203869					
	Action Type:					
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)					

CONDITIONS

Created By	Condition						
amaxwell	None	4/5/2023					

CONDITIONS

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Action 203869