

Lupe Carrasco

From: Lupe Carrasco
Sent: Monday, September 30, 2013 3:28 PM
To: Katie Parker
Cc: Bob Asher
Subject: 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.

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, III
1913-1983

FRANK W. YATES
1936-1986

S.P. YATES
1913-2000



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

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CHAIRMAN OF THE BOARD

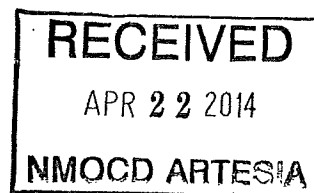
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PRESIDENT

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EXECUTIVE VP. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

April 16, 2014

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



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.

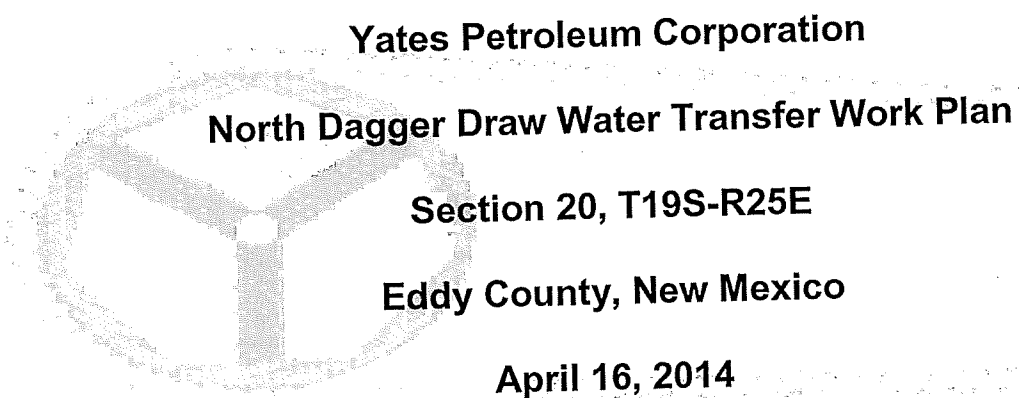
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



Yates Petroleum Corporation

North Dagger Draw Water Transfer Work Plan

Section 20, T19S-R25E

Eddy County, New Mexico

April 16, 2014

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:

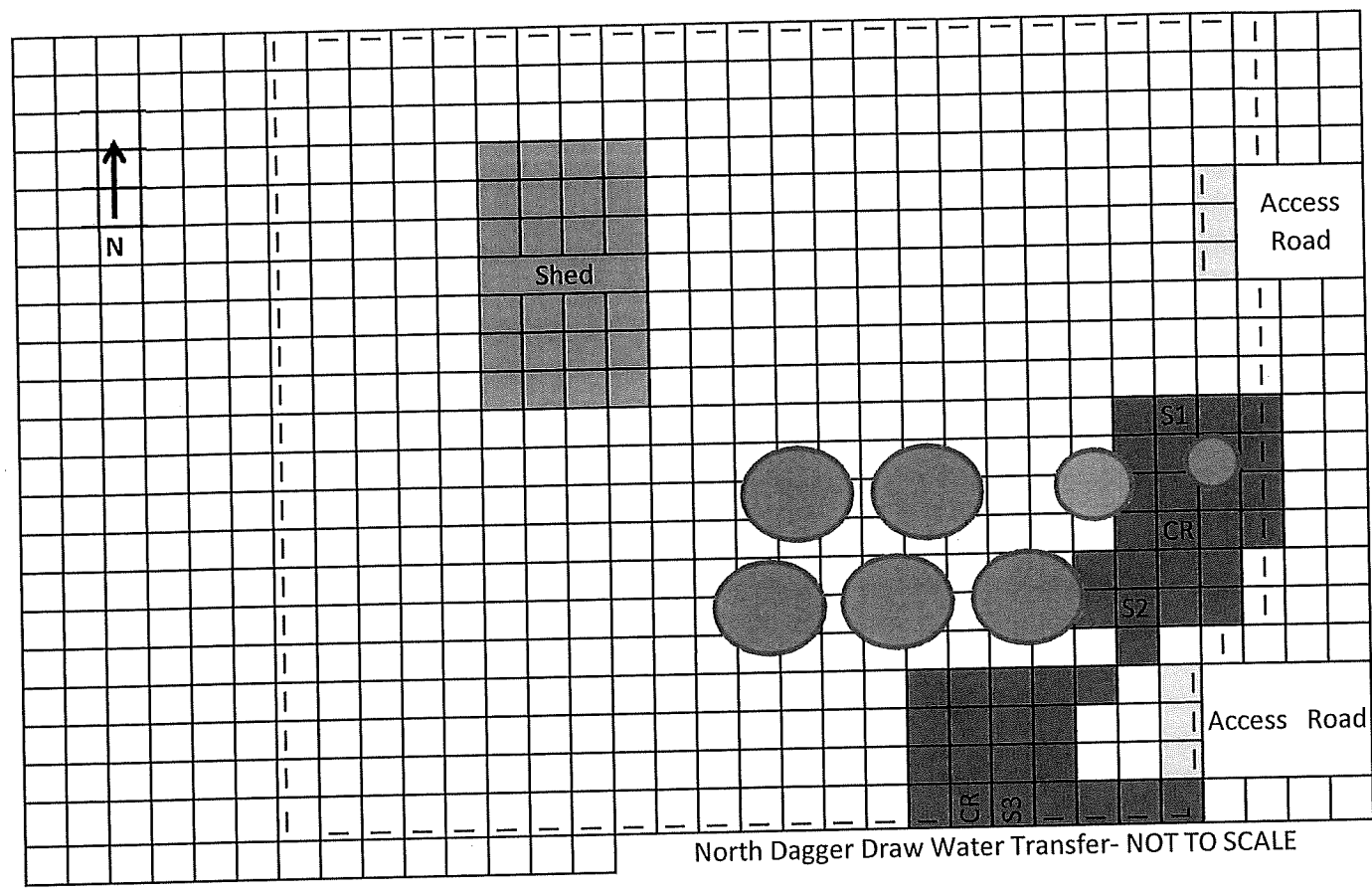
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

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
NDDWT S1-3'	Release Area	8/28/2013	Backhoe	3'	604	3290	4810	32
NDDWT S1-4'	Release Area	8/28/2013	Backhoe	4'	282	1210	2310	112
NDDWT S1-5'	Release Area	8/28/2013	Backhoe	5'	624	2690	3940	96
NDDWT S2-2'	Release Area	8/28/2013	Backhoe	2'	132	847	2210	<16.0
NDDWT S2-3'	Release Area	8/28/2013	Backhoe	3'	302	1660	3080	<16.0
NDDWT S2-4'	Release Area	8/28/2013	Backhoe	4'	535	3700	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	3070	4620	48
NDDWT S2-7'	Release Area	8/28/2013	Backhoe	7'	1100	11100	13800	80
NDDWT S2-8'	Release Area	8/28/2013	Backhoe	8'	968	8430	10300	64
H302127								
NDDWT S3-2'	Release Area	8/28/2013	Backhoe	2'	1230	9450	14600	<16.0
NDDWT S3-3'	Release Area	8/28/2013	Backhoe	3'	1130	9260	12600	<16.0
NDDWT S3-4'	Release Area	8/28/2013	Backhoe	4'	1260	12700	16200	<16.0
NDDWT S3-5'	Release Area	8/28/2013	Backhoe	5'	1330	15300	17900	<16.0
NDDWT S3-6'	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					
S3-10'	Release Area	8/28/2013	Backhoe	10'	<0.3	<10.0	<10.0	N/A
S3-15'	Release Area	8/28/2013	Backhoe	15'	<0.3	<10.0	13.7	N/A
S3-20'	Release Area	8/28/2013	Backhoe	20'	1.1	<10.0	16.9	N/A
S3-25'	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
S4-15'	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
S4-23'	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/O; Recovered: 6 B/O Release Date: 08/13/2013

Requests per
conversation w/ M. Bratcher
the afternoon of 3-27-14.

Remove to 8' & stockpile (6"-1' spread)

Composite 9' sample, make sure BTEX + TPH are below



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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
 Fax To: (505) 748-4635

Received: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSF
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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	
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					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 63.6-154

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*=Accredited Analyte

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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:	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 S1-3' (H302126-02)

BTEX 8021B		mg/kg	Analyzed By: DW						
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					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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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:	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 S1-4' (H302126-03)

mg/kg			Analyzed By: DW						
BTEX 8021B									
Analyte	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, SM4500Cl-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	
DRO >C10-C28	2310	10.0	09/05/2013	ND	194	97.2	200	2.41	

Surrogate: 1-Chlorooctane 142 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

*=Accredited Analyte

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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:	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 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 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 63.6-154

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* = Accredited Analyte

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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:	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 S2-2' (H302126-05)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.02	1.00	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	41.6	1.00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	24.5	1.00	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	57.7	3.00	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	132	6.00	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 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		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 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

*Accredited Analyte

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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:	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 (PIC) 114 % 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	Analyzed 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		
DRO >C10-C28	3080	10.0	09/05/2013	ND	200	100	200	2.29		

Surrogate: 1-Chlorooctane 159 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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
 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 S2-4' (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					

Surrogate: 4-Bromofluorobenzene (PIL) 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		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 % 65.2-140

Surrogate: 1-Chlorooctadecane 164 % 63.6-154

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Celey D. 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
 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 S2-5' (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 (PIE) 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSFI
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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 (PIE) 113 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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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:	09/04/2013	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 S2-7' (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 (PIC) 110 % 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	80.0	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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.5 % 63.6-154

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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:	09/04/2013	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 S2-8' (H302126-11)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	78.0	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	367	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	176	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	347	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	968	60.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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
 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 S3-2' (H302127-01)

BTX 8021B		mg/kg		Analyzed 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 BTX	1230	60.0	09/06/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 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		Analyzed By: DW/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.2 % 63.6-154

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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: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSF
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 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	
Toluene*	429	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	204	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	403	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTX	1130	60.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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		Analyzed By: DW/					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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Celest 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:	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 S3-4' (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 % 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		Analyzed By: DW/					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.7 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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
 Fax To: (505) 748-4635

Received: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSFI
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: 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	Qualifier
Benzene*	125	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	519	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	233	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	455	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1330	60.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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		Analyzed By: DW/					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.8 % 63.6-154

* = 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: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSFI
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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 % 89.4-126

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		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15100	50.0	09/06/2013	ND	203	101	200	0.850	
DRO >C10-C28	17800	50.0	09/06/2013	ND	200	100	200	2.29	

Surrogate: 1-Chlorooctane 216 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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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: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSF
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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 (PIE) 110 % 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	4560	10.0	09/06/2013	ND	203	101	200	0.850	
DRO >C10-C28	6270	10.0	09/06/2013	ND	200	100	200	2.29	

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 172 % 63.6-154

* = Accredited Analyte

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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 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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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4360

Sample Signature: *Lupe Carrasco*

Project Name: North Dagger Draw Water Trans

Fax No: e-mail: lcarrasco@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 103-163

Project #:

Project Name:

North Dagger Draw Water Trans

(lab use only)

ORDER # H302127

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015S	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
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1	NDDWT S3-2'			8/28/2013																												
2	NDDWT S3-3'			8/28/2013																												
3	NDDWT S3-4'			8/28/2013																												
4	NDDWT S3-5'			8/28/2013																												
5	NDDWT S3-6'			8/28/2013																												
6	NDDWT S3-7'			8/28/2013																												

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Received by: *Lupe Carrasco*

Date: 9/14/13 Time: 11:00

Received by: *Lupe Carrasco*

Date: 9/14/13 Time: 11:00

Received by: *Lupe Carrasco*

Laboratory Comments:

Sample Containers: 1000

VOCS Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Seals (Seals on cooler(s))

Sample Hand Delivered

by Courier? ☒ UPS ☐ DHL ☐ FedEx ☐ Lone Star

Temperature Upon Receipt: 4 °C



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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
 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: S3-10' (H400211-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	01/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. 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
 Fax To: (505) 748-4635

Received: 01/23/2014
 Reported: 01/29/2014
 Project Name: NORTH DAGGER DRAW WATER TRANSF
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/21/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

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

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

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* = 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 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 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.3 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celey D. 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
 Fax To: (505) 748-4635

Received: 01/23/2014
 Reported: 01/29/2014
 Project Name: NORTH DAGGER DRAW WATER TRANSF
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/21/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

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 % 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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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
 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: S4-10' (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	
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 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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: S4-15' (H400211-06)

BTX 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 BTX	14.6	0.600	01/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154

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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: S4-20' (H400211-07)

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 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.7 % 63.6-154

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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: 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 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.1 % 63.6-154

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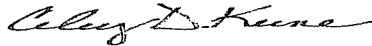
Notes and Definitions

- 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 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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ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4350

Sampler Signature: *Lupe Carrasco*

Fax No:

e-mail: lcarrasco@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 103-163

Project Name:

Project #:

Project Loc:

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other.	TPH: 418.1 8015M 8015S	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	S3-10'					1/21/2014													X														
2	S3-15'					1/21/2014													X														
3	S3-20'					1/21/2014													X														
4	S3-25'					1/21/2014													X														
5	S4-10'					1/21/2014													X														
6	S4-15'					1/21/2014													X														
7	S4-20'					1/21/2014													X														
8	S4-25'					1/21/2014													X														

Relinquished by:	Date	Time	Received by:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
Relinquished by:			Received by:	1/23/14	10:00	Received by:			Received by:		
Relinquished by:			Received by:			Received by:			Received by:		

Special Instructions:

Sample Containers:
Labels on containers (S):
Custody seals on containers (S):
Sample Hand Delivered by Sampler/Client Rep.?
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 41°C

Analyze For:
TCAP
TOTAL
Metals: As Ag Ba Cd Cr Pb Hg Se
Volatiles
Semivolatiles
BTEX 8021B/5030 or BTEX 8260
RCI
N.O.R.M.
Chlorides
SAR
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
Standard TAT



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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 11:30.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	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 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	
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					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 63.6-154

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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:	09/04/2013	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 S1-3' (H302126-02)

BTX 8021B		mg/kg		Analyzed By: DW					
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 BTX	604	24.0	09/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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Celest D. Keene

Celest 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:	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 S1-4' (H302126-03)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	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 (PIE) 119 % 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	112	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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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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:	09/04/2013	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 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 (PIE) 117 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 63.6-154

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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:	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 S2-2' (H302126-05)

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.02	1.00	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	41.6	1.00	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	24.5	1.00	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	57.7	3.00	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	132	6.00	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 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		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 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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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: 09/04/2013
 Reported: 09/10/2013
 Project Name: NORTH DAGGER DRAW WATER TRANSF
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/28/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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 (PIL) 114 % 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		Analyzed 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		
DRO >C10-C28	3080	10.0	09/05/2013	ND	200	100	200	2.29		

Surrogate: 1-Chlorooctane 159 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

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Analytical Results For:

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 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 S2-4' (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					

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		Analyzed By: DW/					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 164 % 63.6-154

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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:	09/04/2013	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 S2-5' (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 (PIE) 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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:	09/04/2013	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 S2-6' (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 (PIE) 113 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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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:	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 S2-7' (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		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		Analyzed By: DW/					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.5 % 63.6-154

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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:	09/04/2013	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 S2-8' (H302126-11)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	78.0	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	367	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	176	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	347	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	968	60.0	09/06/2013	ND					

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 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

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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 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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101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Lupe Carrasco

Comp: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Artesia, NM 88210

Telephone No: 575-748-4350

575-748-4350

Fax No:

Report Format: ☒ Standard

☒ Standard ☐ TRRP☐ NPDES

Sampler Signature:

[Signature]

e-mail:

lgarrasco@yatespetroleum.com

Lab use only)

ORDER #

H302126

[illegible]



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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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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
 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		Analyzed 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					

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		Analyzed By: DW/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.2 % 63.6-154

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*=Accredited Analyte

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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:	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 S3-3' (H302127-02)

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	
Toluene*	429	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	204	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	403	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1130	60.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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		Analyzed By: DW/					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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Celest 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:	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 S3-4' (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 % 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		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 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.7 % 63.6-154

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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:	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 S3-5' (H302127-04)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	125	10.0	09/06/2013	ND	2.13	107	2.00	3.73	
Toluene*	519	10.0	09/06/2013	ND	2.25	112	2.00	4.15	
Ethylbenzene*	233	10.0	09/06/2013	ND	2.33	116	2.00	5.54	
Total Xylenes*	455	30.0	09/06/2013	ND	7.02	117	6.00	6.22	
Total BTEX	1330	60.0	09/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.8 % 63.6-154

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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:	09/04/2013	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 (PIE) 110 % 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									S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15100	50.0	09/06/2013	ND	203	101	200	0.850	
DRO >C10-C28	17800	50.0	09/06/2013	ND	200	100	200	2.29	

Surrogate: 1-Chlorooctane 216 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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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:	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 (PIC) 110 % 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	48.0	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	4560	10.0	09/06/2013	ND	203	101	200	0.850	
DRO >C10-C28	6270	10.0	09/06/2013	ND	200	100	200	2.29	

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 172 % 63.6-154

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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 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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4350

Sampler Signature: *Lupe Carrasco*

Fax No: e-mail: lcarrasco@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 103-163

Project Name: North Dagger Draw Water Trans

Project #:

Project Loc:

(lab use only)

ORDER #: H362127

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Sol/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Labatory Comments:

Sample Containers: 11/20

MOCS Free of Headspace?

Labels on containers?

Custody seals on containers?

Custody seals on cooler(s)?

Sample Hand Delivered

by Sampler/Client Rep?

by Courier?

UPS DHL FedEx Lone Star

Temperature Upon Receipt:



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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
 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	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					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-154

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* = 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: S3-15' (H400211-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 113 % 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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



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
 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 % 89.4-126

TPH 8015M			mg/kg				Analyzed By: ms		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.3 % 63.6-154

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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: S3-25' (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 (PIE) 112 % 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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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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: 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	
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 (PIE) 157 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Caley 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: 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 (PIE) 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154

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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: S4-20' (H400211-07)

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 (PID) 135 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.7 % 63.6-154

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Caley 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: 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 % 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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.1 % 63.6-154

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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 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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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4350

Sampler Signature: [Signature]

e-mail: lcarrasco@yatespetroleum.com

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 103-163

Project Name: North Dugger Draw Water Pit

Project #:

Project Loc:

(lab use only)

ORDER #: 140021

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered:

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Time

Received by:

Date

Time

Date

Time

Received by:

Date

Time

Date

Time

Received by: ELOIT

Laboratory Comments:

Sample Containers:

MOCs: Free Oil Headspace?

Labels on Containers (S)?

Custody seals on container (S)?

Custody seals on evidence (S)?

Sample Hand Delivered by Sampler/Client Rep?

Temperature Upon Receipt:

Y

N

N

N

N

N

Y

N

N

N

N

N

Y

N

N

N

N

N

Y

N

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N

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
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

JMW 1325435386 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Lupe Carrasco
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name North Dagger Draw Water Station	API Number	Facility Type Water Transfer Station
Surface Owner Fee	Mineral Owner N/A	Lease No. N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	20	19S	25E	-	-	-	-	Eddy

Latitude 32.64091 Longitude 104.51321

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 7 B/O	Volume Recovered 6 B/O
Source of Release Tank	Date and Hour of Occurrence 8/8/2013 AM	Date and Hour of Discovery 8/8/2013 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A	<div style="border: 2px solid black; padding: 5px; text-align: center;"> RECEIVED AUG 16 2013 NMOCD ARTESIA </div>	
Describe Cause of Problem and Remedial Action Taken.* Release was due to a valve failure. Lease Operator shut valve on flow line to tank. Valve showed to be closed, but did not close mechanism inside valve causing tank to overflow. Vacuum truck dispatched to recover standing fluid.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 30' X 20' was impacted. Impacted soils to be scraped up and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX, Chlorides will be run for documentation. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted. Depth to Ground Water: >100' (approximately 150', Section 20-T19S-R25E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>Lupe Carrasco</i>	OIL CONSERVATION DIVISION	
Printed Name: Lupe Carrasco	Approved by District Supervisor: Signed By <i>Mike Brannon</i>	
Title: Environmental Regulatory Agent	Approval Date: SEP 11 2013	Expiration Date:
E-mail Address: lcarrasco@yatespetroleum.com	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: Friday, August 16, 2013 Phone: 575-748-1471	2RP-1900	

* Attach Additional Sheets If Necessary

JMW 1325435121
JMW 1325436093

October 11, 2013

Chase Settle

From: Chase Settle
Sent: Thursday, April 30, 2015 4:04 PM
To: mike.bratcher@state.nm.us
Cc: Bob Asher
Subject: North Dagger Draw Water Station
Attachments: 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)



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

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_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

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 STATIOI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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	04/28/2015	ND	2.01	101	2.00	1.54	
Toluene*	<0.050	0.050	04/28/2015	ND	1.80	90.0	2.00	1.15	
Ethylbenzene*	<0.050	0.050	04/28/2015	ND	1.70	85.1	2.00	1.07	
Total Xylenes*	<0.150	0.150	04/28/2015	ND	5.47	91.1	6.00	1.01	
Total BTEX	<0.300	0.300	04/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 61-154

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	04/27/2015	ND	215	108	200	1.48	
DRO >C10-C28	284	10.0	04/27/2015	ND	228	114	200	2.09	

Surrogate: 1-Chlorooctane 95.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.3 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature: [Signature]

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Project Name: North Dagger Draw Water Station

Project #:

Project Loc: North Dagger Draw Water Station

PO #: 205750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H501078

LAB # (lab use only)

FIELD CODE

S2-22'

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

1

X

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Sol/Solid

NP=Non-Potable Specify Other

S

X

TPH: 418.1 8015M 8015B

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

X

Standard TAT

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by ELDT:

Date

Date

Date

Time

Time

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier?

UPS

DHL

FedEx

Temperature Upon Receipt:

Temperature Upon Receipt:

Temperature Upon Receipt:

°C

°C

°C



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_accred_certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Caley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Caley D. Keene

Lab Director/Quality Manager



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

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 STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: STOCKPILE (H403877-01)

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	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 (PII) 102 % 61-154

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	12/22/2014	ND	191	95.3	200	4.92			
DRO >C10-C28	387	10.0	12/22/2014	ND	204	102	200	1.30			

Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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
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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Chase Settle
Address 104 S. 4 TH Street	Telephone No. 575-748-4171	
Facility Name North Dagger Draw Water Station	API Number	Facility Type Water Transfer Station

Surface Owner Fee	Mineral Owner N/A	Lease No. N/A
----------------------	----------------------	------------------



LOCATION OF RELEASE

Unit Letter K	Section 20	Township 19S	Range 25E	Feet from the -	North/South Line -	Feet from the -	East/West Line -	County Eddy
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Latitude 32.64091 Longitude 104.51321

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 7 B/O	Volume Recovered 6 B/O
Source of Release Tank	Date and Hour of Occurrence 8/8/2013 AM	Date and Hour of Discovery 8/8/2013 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. 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 line to tank. Valve showed to be closed, but did not close mechanism inside valve causing tank to overflow. Vacuum truck dispatched to recover standing fluid.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 30' X 20' was impacted. Impacted soils to be scraped up and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX, Chlorides will be run for documentation. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted. Depth to Ground Water: >100' (approximately 150', Section 20-T19S-R25E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on completion of Work Plan (scope of work, analytical data, and release sketch enclosed with Work Plan) dated April 16, 2014 and approved April 22, 2014, Yates Petroleum Corporation requests closure.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Chase Settle		Approved by District Supervisor: 	
Title: NM Environmental Regulatory Agent		Approval Date: 4/5/2023	Expiration Date:
E-mail Address: csettle@yatespetroleum.com		Conditions of Approval:	
Date: Monday, June 29, 2015 Phone: 575-748-4171		Attached <input type="checkbox"/>	
2RP-			

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 203869

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/5/2023