MARTIN YATES, III 1912-1985 FRANK W. YATES

> 1936-1986 5.P YATES



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO BB210-211B

TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR.

JOHN D. PERINI EXECUTIVE V.P. OF MONETIZATION CHIEF FINANCIAL OFFICER

JAMES S. BROWN

September 22, 2014

Mr. Mike Bratcher NMOCD District II 1301 West Grand Artesia, NM 88210

Re:

State CO SWD System (at the Foster FF #2 Battery)

2RP-2479

30-015-21705

Section 1, T20S-R24E 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 9/8/2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or before October 1, 2014.

If you have any questions call me at (575) 748-4217

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher

NM Environmental Regulatory Supervisor

Enclosure(s)

Yates Petroleum Corporation

State CO SWD System Work Plan

Section 1, T20S-R24E

Eddy County, New Mexico

September 22, 2014

I. Location

The well is located approximately 25 miles south of Artesia, NM. Highway 285 (17 miles south), Rock Daisy Road (approximately 8 miles west) and 0.25 miles east off of Sawbuck Road, as represented by the attached Foster Ranch, NM, USGS Quadrangle Map.

II. Background

On August 25, 2014, Yates submitted to the NMOCD District II office a Form C-141 for a release of approximately 400 B/PW with 200 B/PW recovered. The total affected area is approximately 500 feet by 1500 feet area (off of the east side of the battery). The release was from a 12" main line at a series of three tine horns. The impacted area from the oil skim in being excavated and hauled to an NMOCD approved facility. Initial delineation samples were taken (9/4/2014) and sent to an NMOCD approved laboratory (9/12/2014, results enclosed).

III. Surface and Ground Water

Area surface geology ranges from Cenozoic to Paleozoic. The groundwater of record is listed on the ChevronTexaco Trend and shows depth to groundwater approximately 175 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:

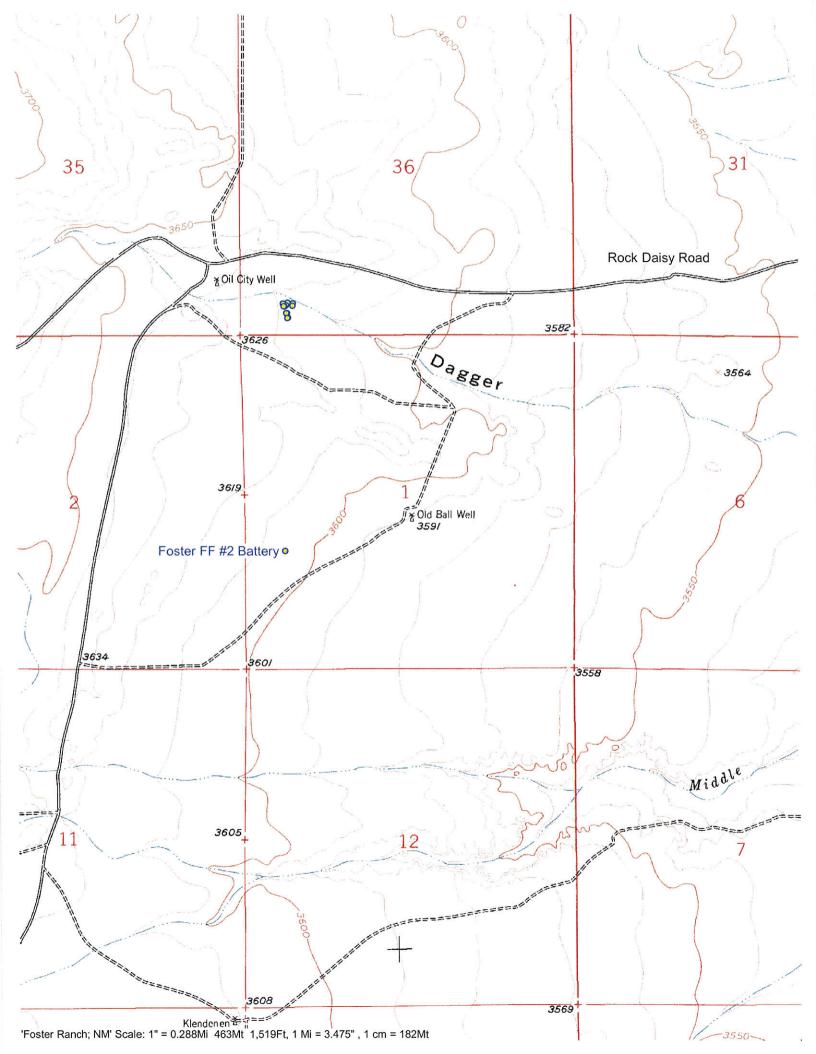
Depth to ground water >100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

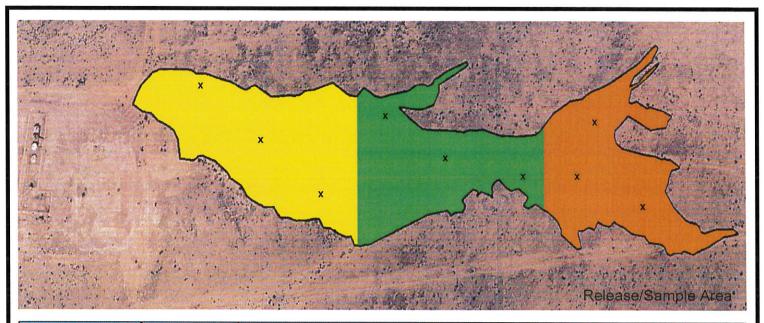
IV. Soils

The area consists of soils that are of a 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 analytical results, Yates Petroleum Corporation will excavate four (4) feet of impacted soils within the release area. Those soils will be taken to an approved NMOCD facility. Based on analytical results, after the impacted soils have been excavated and if needed, Yates will conduct further/deeper sampling to show a decrease in chlorides within the excavation. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of zero (0), no further analytical testing of TPH and or BTEX will be conducted. 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. Upon Final C-141 approval the excavation will be backfilled with two (20 feet of compacted caliche and two (2) clean, like topsoil. The area will be reseeded per the surface owners recommended seed mixture.





Analytical Report- H402771 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
Comp-03.0W	Release Area	9/4/2014	Comp/Backhoe	3.	<0.30	<10.0	<10.0	5680
Comp-04,0W	Release Area	9/4/2014	Comp/Backhoe	4'	<0.30	<10.0	<10.0	4080
Comp-05.0W	Release Area	9/4/2014	Comp/Backhoe	5'	<0.30	<10.0	<10.0	5040
Comp-06.0W	Release Area	9/4/2014	Comp/Backhoe	6'	<0.30	<10.0	<10.0	4360
Comp-07.0W	Release Area	9/4/2014	Comp/Backhoe	7'	<0.30	<10.0	<10.0	2440
Comp-08.0W	Release Area	9/4/2014	Comp/Backhoe	8'	<0.30	<10.0	<10.0	2240
Analytical Report- H402771 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
Comp-03.0C	Release Area	9/4/2014	Comp/Backhoe	3'	<0.30	<10.0	<10.0	6800
Comp-04.0C	Release Area	9/4/2014	Comp/Backhoe	4'	<0.30	<10.0	<10.0	5440
Comp-05.0C	Release Area	9/4/2014	Comp/Backhoe	5'	<0.30	<10.0	<10.0	4560
Comp-06.0C	Release Area	9/4/2014	Comp/Backhoe	6'	<0.30	<10.0	<10.0	5360
Comp-07.0C	Release Area	9/4/2014	Comp/Backhoe	7'	<0.30	<10.0	<10.0	3680
Comp-08.0C	Release Area	9/4/2014	Comp/Backhoe	8'	<0.30	<10.0	<10.0	3680
Analytical Report- H402771 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
Comp-03.0E	Release Area	9/4/2014	Comp/Backhoe	3'	<0.30	<10.0	<10.0	5840
Comp-04.0E	Release Area	9/4/2014	Comp/Backhoe	4'	<0.30	<10.0	<10.0	7360
Comp-05.0E	Release Area	9/4/2014	Comp/Backhoe	5'	<0.30	<10.0	<10.0	6480
Comp-06.0E	Release Area	9/4/2014	Comp/Backhoe	6'	<0.30	<10.0	<10.0	9400
Comp-07.0E	Release Area	9/4/2014	Comp/Backhoe	7'	<0.30	<10.0	<10.0	7700
Comp-08.0E	Release Area	9/4/2014	Comp/Backhoe	8'	<0.30	<10.0	<10.0	6480

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 132' - 175', Trend Map). All results are ppm.

Soils to be excavated.

Chlorides sampled for documentation. Released: 400 B/PW; Recovered: 200 B/PW. Release Date: 8/25/2014



Foster FF #2 Battery 30-015-26250 Section 1, T20S-R24E Eddy County, NM

SAMPLE DIAGRAM

Prepared by Robert Asher Environmental Regulatory Division



September 12, 2014

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: STATE CO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 09/05/14 13:20.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

Sampling Type:

Soil

Project Name:

09/12/2014

Sampling Condition:

Cool & Intact

Project Number:

STATE CO SWD SYSTEM 30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: C03.0C (H402771-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit Analyzed

Method Blank

% Recovery

True Value QC 400

RPD

Chloride

6800

16.0

09/11/2014

Analyzed

ND

BS 416

104

0.00

RPD

0.00

Qualifier

Sample ID: C04.0C (H402771-02)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

BS

Chloride

Chloride

5440

4560

Result

16.0

Reporting Limit

Reporting Limit

16.0

09/11/2014

Method Blank ND

416

BS

416

104

% Recovery

True Value QC 400

Qualifier

Sample ID: C05.0C (H402771-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Analyzed

Method Blank

% Recovery

104

True Value QC

400

RPD

0.00

Qualifier

Sample ID: C06.0C (H402771-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit Chloride 4320 16.0

Analyzed 09/11/2014

09/11/2014

Method Blank ND

ND

BS 416

% Recovery

104

True Value QC

400

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celley D. Keene

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

Sampling Type:

Soil

09/12/2014

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: C07.0C (H402771-05)

Chloride,	SM4500CI	-B

mg/kg

5360

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

Analyzed 09/11/2014

Analyzed

Method Blank ND

BS 416 % Recovery 104

True Value QC 400

Qualifier

RPD 0.00

RPD

0.00

Sample ID: C08.0C (H402771-06)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

BS

Qualifier

Chloride

Chloride

Result 3680

16.0 09/11/2014 Method Blank ND

416

104

% Recovery

Sample ID: C03.0E (H402771-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

% Recovery

True Value OC

400

Qualifier

Chloride

Chloride

Chloride

Result 5840

Result

7360

Result

6480

Reporting Limit 16.0

16.0

16.0

Analyzed 09/11/2014

09/11/2014

Method Blank ND

416

104

True Value QC

RPD

Sample ID: C04.0E (H402771-08)

Chloride, SM4500CI-B

Analyzed By: AP

400

0.00

mg/kg

Reporting Limit

Analyzed

Method Blank

ND

BS

% Recovery

True Value QC

RPD

Qualifier

Analyzed By: AP

ND

416

104

400

0.00

Sample ID: C05.0E (H402771-09)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

Analyzed 09/11/2014 Method Blank

BS

400

% Recovery

100

True Value QC

400

RPD Qualifier

3.92

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Celleg & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 9



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analyzed By: AP

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

Chloride, SM4500CI-B

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

mg/kg

Sample ID: C06.0E (H402771-10)

	ing	, kg	Andryze	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C07.0E (H40)	2771-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7700	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C08.0E (H40)	2771-12)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					V
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C03.0W (H40	02771-13)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C04.0W (H40	02771-14)								
Chloride, SM4500CI-B		/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	09/11/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION **ROBERT ASHER** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Project Location:

EDDY COUNTY, NM

Jodi Henson

Sample ID: C05.0W (H402771-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C06.0W (H40	2771-16)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP				***************************************	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C07.0W (H40	12771-171								
Chloride, SM4500CI-B	words the constitution	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	09/11/2014	ND	400	100	400	3.92	
Sample ID: C08.0W (H40)2771-18)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	09/11/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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 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 & Keens

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Sampler Signature:	Telephone No: 575-748-4217	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp: (505) 393-232f Yates Petroleum Corporation	Project Manager: Robert Asher	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
e-mail: boba@yatespetroleum.com	Fax No:					(505) 393-2326 FAX (505) 393-2476
Analyza For:	Report Format: X Standard TRRP NPDES	PO#: 103632	Project Loc: Eddy County	Project #: 30-015-26250	Project Name: State CO SWD System	e 7 of 9

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_									×	×	×	×	×	×	Standard TAT			

Relinquished by:

Date

Time

Received by ELOT:

Time

Temperature Upon Receipt:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 8 of 9

bbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Address: 105 South 4th Street Comp: (505) 393-232€ Yates Petroleum Corporation Project Manager: Robert Asher Project Name: State CO SWD System Project Loc: Eddy County Project #: 30-015-26250

The state of the s		Sampler Signature:	Telephone No:	City/State/Zip:
		QuaQu.	575-748-4217	Artesia, NM 88210
		e-mail:	Fax No:	
		boba@yatespetroleum.com		
_			Report Format: X Standard	PO
	Analyze For:		x Standard	Po #: 103632
	e For:		TRRP [
-			NPDES	(4

Relinquiched by:	Relinquished by:	Relinquished by:	Opecial	2			71	=	10	7	QJ	L	LAB # (lab use only)	ORDER #:		(lab use only)	
had his	hed by:	hed by: REPA / U.P.	opecial insuluctions.				c08.0E	c07.0€	c06.0E	c05.0E	c04.0E	c03.0E		1		only)	
			7	2									FIELD CODE	11170	コート		
Date	Date	Date 09/05/14	ASE POT C										-				
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1	Time	Time 8:35 AM	(IDES				α	7	οī	οī	4.	ယ္	Ending Depth				
Danainal hitti OT.	Received by:	Received by:	FLEASE FOI CHLORIDES ON SEPARATE REPORT. ALL results in ing/kg.				9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	Date Sampled				
1	(Menson	וה אהרטאו.				1:20 AM	1:10 AM	1:00 AM	12:50 AM	12:40 AM	12:30 AM	Time Sampled				
	2	2	Ä	_	1	_	_	-		_			Field Filtered]			
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l			=	1	+			╁	\vdash	-	-	-	Na ₂ S ₂ O ₃				
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	Date	Date 5/14				=	S	s	s	s	s	S	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix			
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	Sar	S CE	Vo					T					Cations (Ca, Mg, Na, K)				l
Y	Sample Hand Delivered by Sampler/Client Re	Labels on container(s) Custody seals on container Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?				×	×	×	×	×	×	Anions (CI)		77	7	l
by Countries:	uple Hand Delivered by Sampler/Client Rep. ?	y sea	Cor										SAR / ESP / CEC		TOTAL:	TCLP:	١
0	ler D	onta als o	ntain of H										Metals: As Ag Ba Cd Cr Pb Hg S	Se .			١
	Clien	in co	ners										Volatiles				
2	t Re	ontai oler	Inta	L									Semivolatiles		-		١
200	.0	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	8 5	-	\vdash		×	×	×	×	×	×	BTEX 8021B/5030 or BTEX 826	0			
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0	2-2		ZZ	_	_			4	4	_	_		RUSH TAT (Pre-Schedule) 24,	48, 7	2 hr	3	-
	`			L			×	×	×	×	×	×	Standard TAT				١

Relinquished by:

Date

Time

Received by ELOT:

Time

Temperature Upon Receipt:

(i)

×

× × Standard TAT



September 12, 2014

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: STATE CO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 09/05/14 13:20.

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

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

Method EPA 552.2 Haload

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: C03.0C (H402771-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 89.4-12	6		105177				
TPH 8015M	mg/	kg	Analyze	d By: ms		1, 2			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.2	200	0.658	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	194	97.0	200	3.28	
Surrogate: 1-Chlorooctane	94.8	% 65.2-14	0				2		
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celley & Keene



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

Received:

09/05/2014

Reported:

09/12/2014

Project Name: Project Number: STATE CO SWD SYSTEM

Project Location:

30-015-26250 EDDY COUNTY, NM Sampling Date:

09/04/2014

Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: C04.0C (H402771-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.2	200	0.658	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	194	97.0	200	3.28	
Surrogate: 1-Chlorooctane	98.0	% 65.2-14	0				=		
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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

Γάλ

Received: Reported: 09/05/2014

09/12/2014

Project Name: Project Number: STATE CO SWD SYSTEM

Project Location:

30-015-26250 EDDY COUNTY, NM Sampling Date:

Sampling Type:

09/04/2014

ling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: C05.0C (H402771-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	92.8	% 65.2-14	0		-		Ţ.		
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Celeg & Keens



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

Received:

09/05/2014

Reported:

09/12/2014

Project Name: Project Number: STATE CO SWD SYSTEM

Project Location:

30-015-26250 EDDY COUNTY, NM Sampling Date:

09/04/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: C06.0C (H402771-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6					0 =	
TPH 8015M	mg,	/kg	Analyze	d By: ms	TIO III			1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	102 !	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106								

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Celeg & Keene



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

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C07.0C (H402771-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	< 0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
TPH 8015M	mg	/kg	Analyze	d By: ms			1 . 2		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	98.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113	% 63.6-15	4						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

Sampling Type:

Soil

09/12/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number: STATE CO SWD SYSTEM 30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: C08.0C (H402771-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS			7.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: ms	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	99.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Celley D. Keens



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

Received: Reported: 09/05/2014

09/12/2014

Project Name: Project Number: STATE CO SWD SYSTEM

Project Location:

30-015-26250 EDDY COUNTY, NM

100 %

63.6-154

Sampling Date:

Sampling Type:

Sample Received By:

09/04/2014

Soil

Sampling Condition:

Cool & Intact

Jodi Henson

Sample ID: C03.0E (H402771-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 5	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	97.1	% 65.2-14	0						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

Sampling Type:

Soil

Project Name:

09/12/2014

Sampling Condition:

Cool & Intact

Project Number:

STATE CO SWD SYSTEM 30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C04.0E (H402771-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	< 0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	< 0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	< 0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	26						=
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	87.0	% 65.2-14	10					5 1	
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	14						

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Celeg & Keens



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

Received:

09/05/2014

Reported:

09/12/2014

Project Name: Project Number: STATE CO SWD SYSTEM 30-015-26250

Project Location:

EDDY COUNTY, NM

Sampling Date:

Sampling Date:

09/04/2014 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: C05.0E (H402771-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6	.4		l i			
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	96.8	% 65.2-14	0	= =					
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Fax To:

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C06.0E (H402771-10)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6	=,					
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	98.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celley D. Keens

Celey D. Keene, Lab Director/Quality Manager



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Fax To:

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C07.0E (H402771-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						_
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	83.9	% 65.2-14	0	, i	-				
Surrogate: 1-Chlorooctadecane	86.2	% 63.6-15	4						

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C08.0E (H402771-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 5	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	93.1	% 65.2-14	0	7					
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C03.0W (H402771-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	95.1	% 65.2-14	10	10					
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Calley D. Keens



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Fax To:

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: C04.0W (H402771-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6		3			•	
TPH 8015M	mg/	'kg	Analyze	d By: ms					5
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	97.5	% 65.2-14	0	l l			3		
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15	4						

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Project Location:

EDDY COUNTY, NM

Jodi Henson

Sample ID: C05.0W (H402771-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 5	% 89.4-12	6					***	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	95.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Celley D. Keens -



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Fax To:

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C06.0W (H402771-16)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 5	% 89.4-12	6			ix .	-		
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	97.8	% 65.2-14	0	= = = = = = = = = = = = = = = = = = = =					
Surrogate: 1-Chlorooctadecane	108 9	% 63.6-15	4						

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Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: C07.0W (H402771-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	< 0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	< 0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						14
TPH 8015M	mg	/kg	Analyze	d By: ms			1 1 1	3	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Fax To:

(505) 748-4635

Received:

09/05/2014

Sampling Date:

09/04/2014

Reported:

09/12/2014

Sampling Type:

Soil

Project Name:

STATE CO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-26250

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: C08.0W (H402771-18)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	09/11/2014	ND	1.92	96.0	2.00	5.47	
Toluene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.60	80.1	2.00	4.68	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	4.91	81.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (F	PIE 106	% 89.4-12	6						-
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2014	ND	175	87.6	200	3.70	
DRO >C10-C28	<10.0	10.0	09/10/2014	ND	194	97.2	200	5.65	
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celley D. Keens



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 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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Celeg & Keene

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

Project Manager: Robert Asher

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Project Name: State CO SWD System

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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