

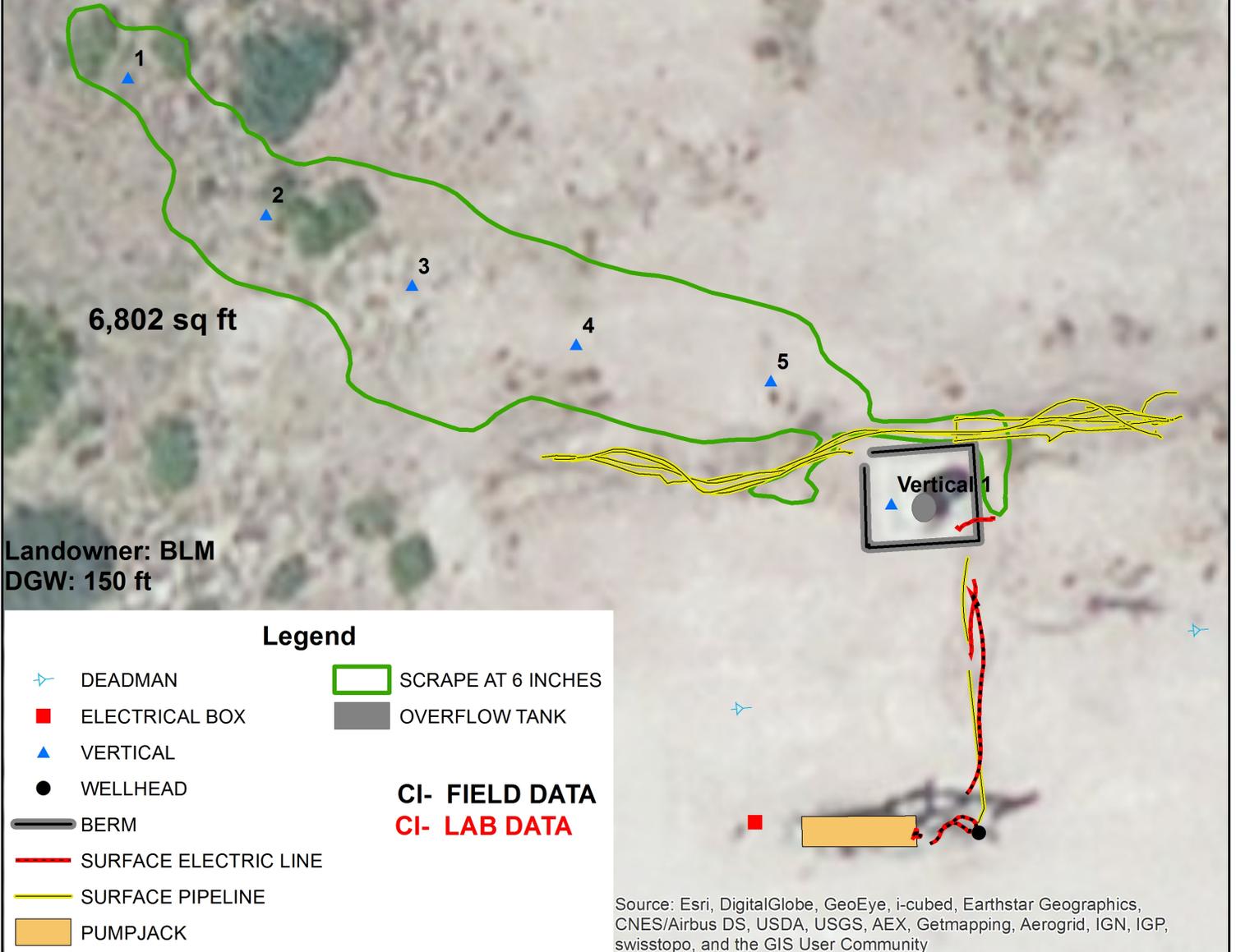
Sampling Data

6 in Scrape

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
5 Pt. Bottom Comp	80	1.6	<50	1430	<0.05	<0.05	<0.05	<0.15	<0.3

Vertical 1

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
6"	1730	1.1	<100	8840	<0.05	0.089	0.07	0.201	0.36
1'	1570	7.1	<10	266	<0.05	<0.05	<0.05	<0.15	<0.3
1.5'	288	35	<100	4200	<0.05	<0.05	<0.05	1.32	1.32
2'		3.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



RECS
RICE ENVIRONMENTAL
CONSULTING & SAFETY

**CONOCOPHILLIPS
JAMES E FEDERAL
UPPER BATTERY**

UL E SECTION 12
T-22-S R-30-E
EDDY COUNTY, NM

Underground facilities are spatially projected and need to be field verified.

0 25 50 Feet

GPS date: 9/5/14 & 12/17/14 CF
Drawing date: 12/22/14
Drafted by: L. Weinheimer



December 19, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: JAMES E FEDERAL UPPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:43.

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,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/19/2014	Sampling Type:	Soil
Project Name:	JAMES E FEDERAL UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	COP		

Sample ID: VERTICAL 1 @ 2' (H403886-01)

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	12/19/2014	ND	1.81	90.7	2.00	8.31		
Toluene*	<0.050	0.050	12/19/2014	ND	1.79	89.7	2.00	8.41		
Ethylbenzene*	<0.050	0.050	12/19/2014	ND	1.69	84.4	2.00	9.67		
Total Xylenes*	<0.150	0.150	12/19/2014	ND	5.07	84.5	6.00	10.4		
Total BTEX	<0.300	0.300	12/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	12/19/2014	ND	185	92.4	200	2.35		
DRO >C10-C28	<10.0	10.0	12/19/2014	ND	200	99.9	200	10.1		

Surrogate: 1-Chlorooctane 92.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.9 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS

BILL TO

ANALYSIS REQUEST

Project Manager: Laura Flores / Kyle Newson

Address: 419 W Cain

City: Hobbs

Phone #:

Project #:

Project Name: *Canoco Phillips*

Project Location: *James E Federal Upper Battery*

Sampler Name: *Chris Flores*

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV.

SAMPLING

Lab I.D. Sample I.D.

H403885

Vertical 1 @ 2'

(G)RAB OR (C)OMP.	G	1
# CONTAINERS		
GROUNDWATER		
WASTEWATER		
SOIL	<input checked="" type="checkbox"/>	
OIL		
SLUDGE		
OTHER :		
ACID/BASE:		
ICE / COOL	<input checked="" type="checkbox"/>	
OTHER :		

DATE TIME
12/17/2014 3:30 PM

Chlorides	
TPH 8015 M	X
BTEX	X
Texas TPH	
Complete Cations/Anions	
TDS	

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Relinquished By:

Date: *12/17/2014*

Received By:

Chris Flores

Date: *4/13*

Received By:

John Ford

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-0.2i

Sample Condition

Cool	<input checked="" type="checkbox"/>
Intact	<input checked="" type="checkbox"/>
Yes	<input checked="" type="checkbox"/>
No	<input type="checkbox"/>

CHECKED BY: *KB* (Initials)

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

email results:
hcondor@rice-ecs.com; knorman@rice-ecs.com;
jkampain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com;
lweinheimer@rice-ecs.com; cursant@rice-ecs.com
environmental tech: cflores@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54



December 18, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: JAMES E FEDERAL UPPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/17/14 12:25.

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 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".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/17/2014	Sampling Date:	12/17/2014
Reported:	12/18/2014	Sampling Type:	Soil
Project Name:	JAMES E FEDERAL UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COP		

Sample ID: VERTICAL 1 @ 6" (H403839-01)

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	12/18/2014	ND	1.89	94.6	2.00	0.907	
Toluene*	0.089	0.050	12/18/2014	ND	1.88	93.8	2.00	0.454	
Ethylbenzene*	0.070	0.050	12/18/2014	ND	1.78	89.1	2.00	0.484	
Total Xylenes*	0.201	0.150	12/18/2014	ND	5.37	89.5	6.00	0.122	
Total BTEX	0.360	0.300	12/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	12/18/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	12/18/2014	ND	179	89.4	200	5.09		
DRO >C10-C28	8840	100	12/18/2014	ND	186	93.0	200	3.25		

Surrogate: 1-Chlorooctane 85.4 % 47.2-157
Surrogate: 1-Chlorooctadecane 195 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/17/2014	Sampling Date:	12/17/2014
Reported:	12/18/2014	Sampling Type:	Soil
Project Name:	JAMES E FEDERAL UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COP		

Sample ID: VERTICAL 1 @ 1' (H403839-02)

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	12/18/2014	ND	1.89	94.6	2.00	0.907	
Toluene*	<0.050	0.050	12/18/2014	ND	1.88	93.8	2.00	0.454	
Ethylbenzene*	<0.050	0.050	12/18/2014	ND	1.78	89.1	2.00	0.484	
Total Xylenes*	<0.150	0.150	12/18/2014	ND	5.37	89.5	6.00	0.122	
Total BTEX	<0.300	0.300	12/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	12/18/2014	ND	400	100	400	0.00	

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	12/18/2014	ND	179	89.4	200	5.09	
DRO >C10-C28	266	10.0	12/18/2014	ND	186	93.0	200	3.25	

Surrogate: 1-Chlorooctane 89.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.7 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/17/2014	Sampling Date:	12/17/2014
Reported:	12/18/2014	Sampling Type:	Soil
Project Name:	JAMES E FEDERAL UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COP		

Sample ID: VERTICAL 1 @ 1.5' (H403839-03)

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	12/18/2014	ND	1.89	94.6	2.00	0.907	
Toluene*	<0.050	0.050	12/18/2014	ND	1.88	93.8	2.00	0.454	
Ethylbenzene*	<0.050	0.050	12/18/2014	ND	1.78	89.1	2.00	0.484	
Total Xylenes*	1.32	0.150	12/18/2014	ND	5.37	89.5	6.00	0.122	
Total BTEX	1.32	0.300	12/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/18/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	12/18/2014	ND	179	89.4	200	5.09	
DRO >C10-C28	4200	100	12/18/2014	ND	186	93.0	200	3.25	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 162 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** 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



Celey D. Keene, Lab Director/Quality Manager

