

December 17th, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

**RE: Termination Request
Burnett Oil Gissler A 19 (2RP-2387)
UL/J sec. 14 T17S R30E
API No. 30-015-32835**

Mr. Bratcher:

Burnett Oil Co. (Burnett) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 2.5 miles northeast of Loco Hills, New Mexico at UL/J sec. 14 T17S R30E. This site is in an area of no known groundwater.

On June 30th, 2014, Burnett discovered a release of 20 barrels of produced water and oil from the well head at the site. The threads on the 5 ½ inch casing pin failed and released the fluid over 7,132 square feet of the lease pad and pasture land. A vacuum truck was called to the site and recovered 15 barrels of fluid. An initial C-141 was submitted to NMOCD and BLM on July 9th, 2014, and was approved by NMOCD on July 23rd, 2014 (Appendix A).

RECS personnel were on site beginning on July 7th, 2014, to assess the release. Five points within the release area were field sampled at the surface, and four of the points were sampled with depth (Figure 1). Representative samples were taken to a commercial laboratory for analysis (Appendix B).

Based on the sampling data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on August 19th, 2014. NMOCD approved the CAP on August 20th, 2014, with the stipulation that horizontal confirmation samples be taken from either the side walls or outside the excavation area.

The CAP stated that the release would be remediated in five parts (Figure 2). The area around Point 1 was oil overspray that had lightly covered the vegetation in the area. Therefore, the area around Point 1 would be sprayed with Micro-Blaze to wash the vegetation. Micro-Blaze contains a proprietary blend of wetting agents, nutrients, and several strains of safe, non-

pathogenic *Bacillus* bacteria. When applied to a hydrocarbon-based or organic spill, the wetting agent begins breaking down the contaminants into smaller molecules for more efficient degradation by the microbes into harmless byproducts like carbon dioxide, water and trace salts.

The area around Point 2 and the area around Point 5 would be scraped down to 6 inches bgs. The scrape around Point 2 would not impinge on the well head or pump jack for safety reasons. The area around Point 3 would be scraped down to 1.5 ft bgs, and the area around Point 4 would be scraped down to 1 ft bgs. Once all the scrapes were completed, a bottom composite sample would be taken from each scrape and sent to a commercial laboratory to confirm that chlorides, GRO, DRO and BTEX readings were all below regulatory standards.

The excavated soil would be evaluated for use as backfill, and any soils that did not meet regulatory standards would be taken to a NMOCD approved facility for disposal. Clean soil would be imported to the site to replace any soils taken for disposal. The clean soil would be blended with the remaining excavated soil and used to backfill the site. A sample of the blended soil would be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings were all below regulatory standards. Once the site was backfilled, the area would be contoured to the surrounding location.

Corrective actions began at the site on October 15th, 2014. The release on the lease pad was excavated in 5 parts (Figure 3). Once each scrape was completed, final wall and bottom samples were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analysis (Appendix C). The southernmost 6 inch bgs scrape, located around Point 5, returned an elevated chloride concentration for the 5 point bottom composite. Therefore, the scrape was deepened to 9 inches bgs, and another 5 point bottom composite was taken. The 5 point bottom composite at 9 inches bgs returned an acceptable chloride value of 32 mg/kg.

A request to backfill the site was sent to NMOCD and BLM on October 31st, 2014. NMOCD approved the site to be backfilled on November 3rd, 2014, and BLM approved the site to be backfilled on November 13th, 2014. All excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to serve as backfill. A sample of the caliche was taken to a commercial laboratory for analysis and returned a chloride value of 176 mg/kg. The scrapes were backfilled with the imported caliche and contoured to the surrounding location.

The vegetation that was affected by the release was sprayed with Micro-Blaze on November 10th, 2014, and will be monitored for continued health.

Photo documentation of the field activities can be found in Appendix D.

Given that the contaminated soil was taken to a NMOCD approved facility and replaced with clean, imported soil, and the vegetation was washed with Micro-Blaze, Burnett respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lara Weinheimer".

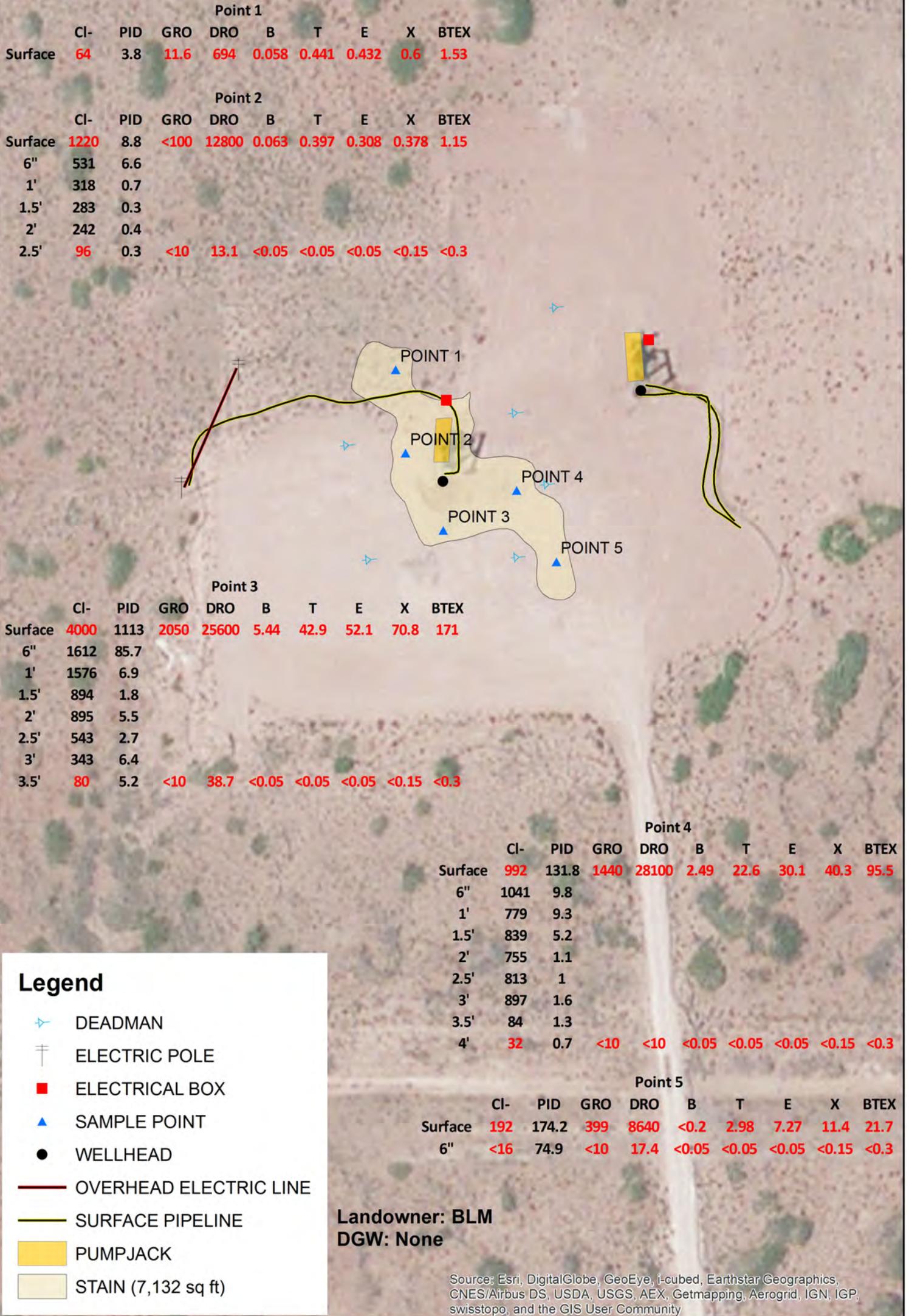
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Proposed Corrective Actions
- Figure 3 – Excavation Map
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Corrective Action Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

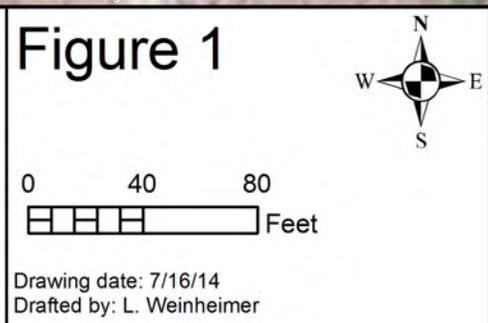
Figures

Initial Sampling Data

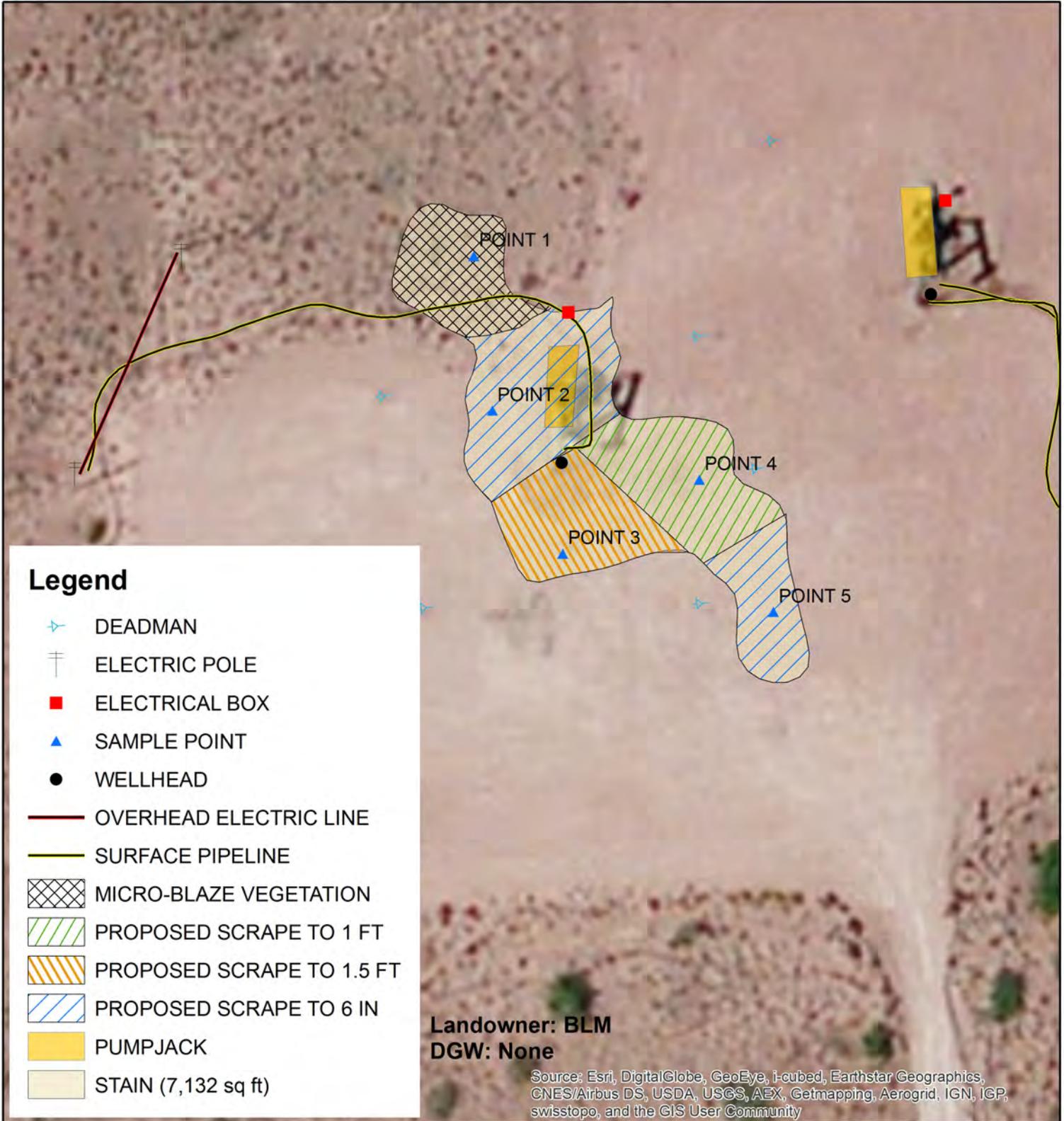


**BURNETT OIL
GISSLER A 19**

Legals: UL/J sec. 14
T-17-S R-30-E
EDDY COUNTY, NM

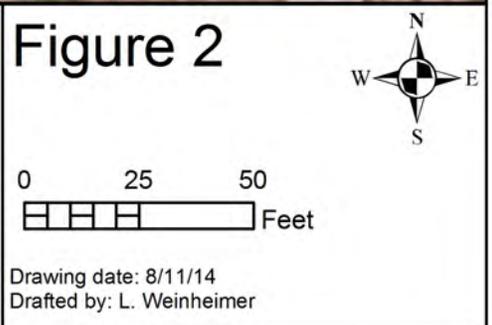


Proposed Corrective Actions



***BURNETT OIL
GISSLER A 19***

Legals: UL/J sec. 14
T-17-S R-30-E
EDDY COUNTY, NM

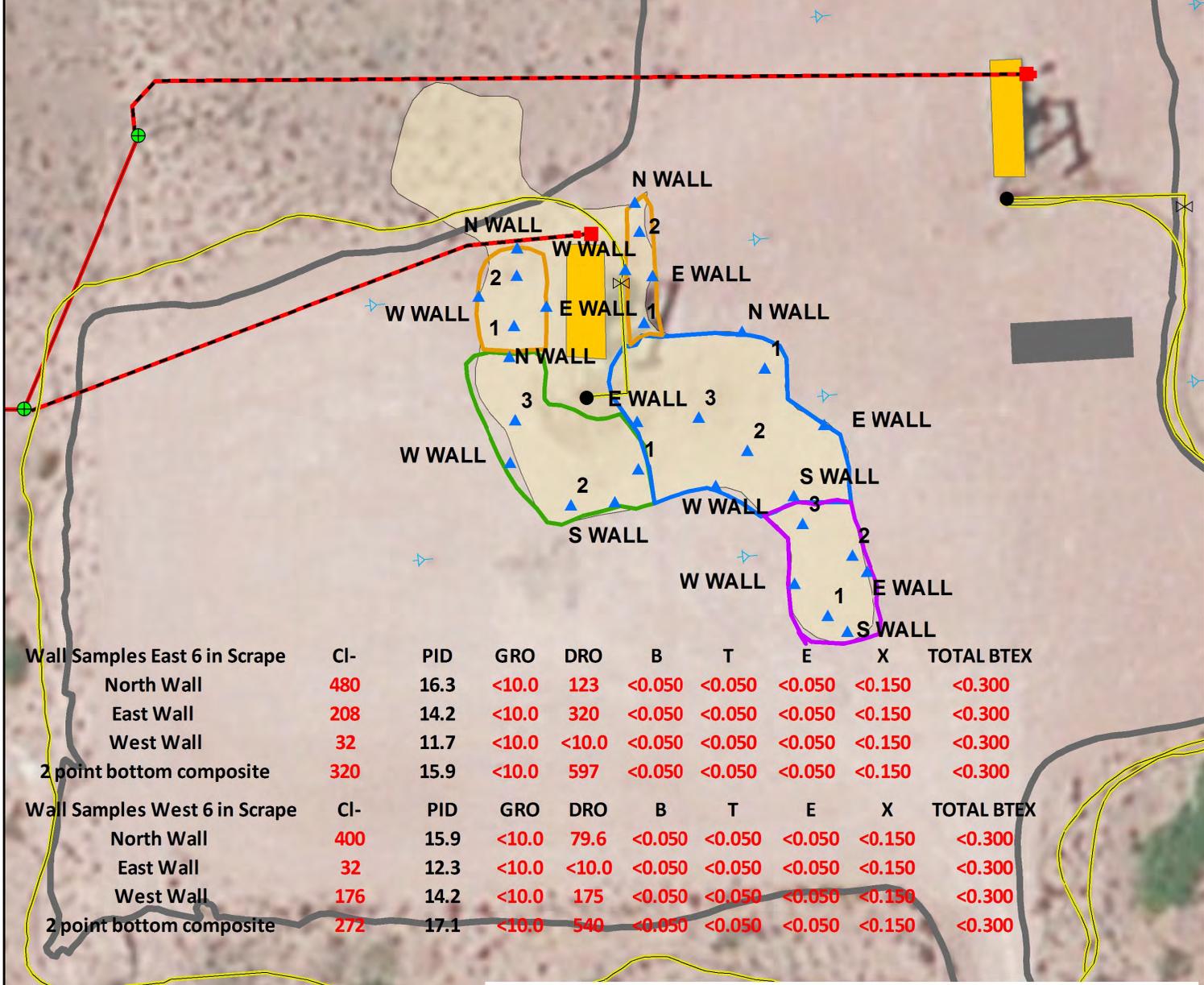


Excavation Map

Wall Samples South 9 in Scrape	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
South Wall	<16.0	0.4	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
East Wall	32	12.1	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
West Wall	32	1.3	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
5 point bottom composite	32	25.6	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300

Wall Samples 1 ft Scrape	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
North Wall	352	4.9	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
South Wall	80	2.4	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
East Wall	<16.0	1.7	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
West Wall	<16.0	1.4	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
3 point bottom composite	128	10.3	<10.0	52.1	<0.050	<0.050	<0.050	<0.150	<0.300

Wall Samples 1.5 ft Scrape	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
North Wall	304	14.4	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
South Wall	448	7.4	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
East Wall	272	6.9	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
West Wall	176	13.8	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
3 point bottom composite	416	1.1	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300



Wall Samples East 6 in Scrape	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
North Wall	480	16.3	<10.0	123	<0.050	<0.050	<0.050	<0.150	<0.300
East Wall	208	14.2	<10.0	320	<0.050	<0.050	<0.050	<0.150	<0.300
West Wall	32	11.7	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
2 point bottom composite	320	15.9	<10.0	597	<0.050	<0.050	<0.050	<0.150	<0.300

Wall Samples West 6 in Scrape	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
North Wall	400	15.9	<10.0	79.6	<0.050	<0.050	<0.050	<0.150	<0.300
East Wall	32	12.3	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
West Wall	176	14.2	<10.0	175	<0.050	<0.050	<0.050	<0.150	<0.300
2 point bottom composite	272	17.1	<10.0	540	<0.050	<0.050	<0.050	<0.150	<0.300

CI- Field data
 CI- Lab data

Landowner: BLM
 DGW: None

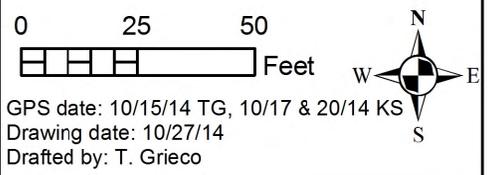
Legend

- ▲ SAMPLE POINT
- CONTROL BOX
- SCRAPE @ 1 FT
- ✈ DEADMAN
- BURIED ELECTRIC
- SCRAPE @ 9 IN
- ELECTRIC POLE
- BURIED PIPELINE
- SCRAPE @ 1.5 FT
- ELECTRICAL BOX
- OVERHEAD ELECTRIC LINE
- MUD TANK
- ⊗ VALVE
- PAD/ROAD EDGE
- PUMPJACK
- WELLHEAD
- SURFACE PIPELINE
- SCRAPE @ 6 IN
- STAIN (7,132 sq ft)



**BURNETT OIL
 GISSLER A 19**
 Legals: UL/J sec. 14
 T-17-S R-30-E
 EDDY COUNTY, NM

Figure 3



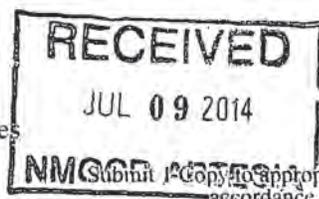
Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit a copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nHMP 1420430499

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company	Burnett Oil Co. <i>3080</i>	Contact	Shawna Matthews
Address	87 Square Lake Rd., Loco Hills, NM 88255	Telephone No.	(575) 219-6370
Facility Name	Gissler A 19	Facility Type	Well head
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-32835

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	14	17S	30E	2310	FSL	2310	FEL	Eddy

Latitude 32.8336322529691 Longitude -103.941654295496

NATURE OF RELEASE

Type of Release	Produced water and oil	Volume of Release	20 bbls	Volume Recovered	15 bbls
Source of Release	Well head	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	6/30/14 7:30 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The threads on the 5 1/2 in casing pin failed releasing 20 bbls of produced water and oil.

Describe Area Affected and Cleanup Action Taken.*
A total of 7,132 sq ft of lease pad and pasture land was affected by the release. A vacuum truck was called to the site and recovered 15 bbls of fluid. The site will be remediated to NMOCD and BLM standards.

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>Shawna Matthews</i>	OIL CONSERVATION DIVISION	
Printed Name: Shawna Matthews	Approved by Environmental Specialist:	<i>H. P.</i>
Title: Senior Production Technician	Approval Date: <i>7/23/14</i>	Expiration Date: <i>NA</i>
E-mail Address: smatthews@burnettoil.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-9-14 Phone: (575) 219-6370	remediation per OGD rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:
8/23/14

2RP-238B

Appendix B

Initial Sampling Lab

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



July 16, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A #19

Enclosed are the results of analyses for samples received by the laboratory on 07/09/14 16:30.

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".

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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H402094-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.058	0.050	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	0.441	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	0.432	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	0.600	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	1.53	0.300	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	64.0	16.0	07/15/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.6	10.0	07/11/2014	ND	184	92.2	200	2.67	
DRO >C10-C28	694	10.0	07/11/2014	ND	196	98.2	200	3.22	

Surrogate: 1-Chlorooctane 91.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H402094-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.063	0.050	07/14/2014	ND	1.88	94.1	2.00	4.05		
Toluene*	0.397	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05		
Ethylbenzene*	0.308	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40		
Total Xylenes*	0.378	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57		
Total BTEX	1.15	0.300	07/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	1220	16.0	07/15/2014	ND	416	104	400	3.92		

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	07/12/2014	ND	184	92.2	200	2.67			
DRO >C10-C28	12800	100	07/12/2014	ND	196	98.2	200	3.22			

Surrogate: 1-Chlorooctane 87.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 452 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 2.5' (H402094-03)

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	07/14/2014	ND	1.88	94.1	2.00	4.05		
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05		
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40		
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57		
Total BTEX	<0.300	0.300	07/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	96.0	16.0	07/15/2014	ND	416	104	400	3.92		

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	07/12/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	13.1	10.0	07/12/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 97.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H402094-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.44	2.00	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	42.9	2.00	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	52.1	2.00	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	70.8	6.00	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	171	12.0	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	4000	16.0	07/15/2014	ND	416	104	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	2050	200	07/12/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	25600	200	07/12/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 176 % 65.2-140

Surrogate: 1-Chlorooctadecane 695 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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:	07/09/2014	Sampling Date:	07/09/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ 3.5' (H402094-05)

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	07/14/2014	ND	1.88	94.1	2.00	4.05		
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05		
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40		
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57		
Total BTEX	<0.300	0.300	07/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	80.0	16.0	07/15/2014	ND	416	104	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	07/12/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	38.7	10.0	07/12/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 63.6-154

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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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H402094-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.49	1.00	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	22.6	1.00	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	30.1	1.00	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	40.3	3.00	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	95.5	6.00	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	992	16.0	07/15/2014	ND	416	104	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	1440	200	07/12/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	28100	200	07/12/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 158 % 65.2-140

Surrogate: 1-Chlorooctadecane 807 % 63.6-154

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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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ 4' (H402094-07)

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	07/14/2014	ND	1.88	94.1	2.00	4.05		
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05		
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40		
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57		
Total BTEX	<0.300	0.300	07/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	07/15/2014	ND	416	104	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	07/12/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	<10.0	10.0	07/12/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154

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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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ SURFACE (H402094-08)

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	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	2.98	0.200	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	7.27	0.200	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	11.4	0.600	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	21.7	1.20	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2014	ND	416	104	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	399	100	07/12/2014	ND	184	92.2	200	2.67	
DRO >C10-C28	8640	100	07/12/2014	ND	196	98.2	200	3.22	

Surrogate: 1-Chlorooctane 147 % 65.2-140

Surrogate: 1-Chlorooctadecane 233 % 63.6-154

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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:	07/09/2014	Sampling Date:	07/07/2014
Reported:	07/16/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ 6" (H402094-09)

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	07/14/2014	ND	1.88	94.1	2.00	4.05		
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05		
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40		
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57		
Total BTEX	<0.300	0.300	07/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	07/15/2014	ND	416	104	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	07/12/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	17.4	10.0	07/12/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 96.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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* = 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.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RECS</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Laura Flores, Kyle Norman</u>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																		
Address:		Company:																									
City: Hobbs State: NM Zip: 88240		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name:		State: Zip:																									
Project Location: <u>Gissler AB #19</u>		Phone #:																									
Sampler Name: <u>Kyle Schmidt</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS							MATRIX					PRESERV.		SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<u>H402094</u>																											
	<u>1 Point 1 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>11:45</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>2 Point 2 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>11:50</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>3 Point 2 @ 2.5'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>12:00</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>4 Point 3 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>12:05</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>5 Point 3 @ 3.5'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-9-14</u>	<u>12:30</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>6 Point 4 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>12:15</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>7 Point 4 @ 4'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>12:20</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>8 Point 5 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>12:25</u>	<u>X</u>	<u>X</u>	<u>X</u>										
	<u>9 Point 5 @ 6"</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7-7-14</u>	<u>12:40</u>	<u>X</u>	<u>X</u>	<u>X</u>										

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Relinquished By: <u>Kyle Schmidt</u>	Date: <u>7-9-14</u> Time: <u>4:30</u>	Received By: <u>Wendi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>KS</u>	REMARKS: email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <u>K Schmidt</u> @rice-ecs.com	

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

#54

Appendix C

Corrective Action Labs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



October 20, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A #19

Enclosed are the results of analyses for samples received by the laboratory on 10/17/14 15:50.

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:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S. WALL 6" S. SCRAPE (H403209-01)

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	10/20/2014	ND	1.83	91.5	2.00	5.27		
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71		
Total BTEX	<0.300	0.300	10/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87		
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76		

Surrogate: 1-Chlorooctane 88.3 % 47.2-157
Surrogate: 1-Chlorooctadecane 96.2 % 52.1-176

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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:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: E WALL 6" S SCRAPE (H403209-02)

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	10/20/2014	ND	1.83	91.5	2.00	5.27	
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28	
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47	
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71	
Total BTEX	<0.300	0.300	10/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-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	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76	

Surrogate: 1-Chlorooctane 90.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.0 % 52.1-176

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 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: W WALL 6" S SCRAPE (H403209-03)

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	10/20/2014	ND	1.83	91.5	2.00	5.27		
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71		
Total BTEX	<0.300	0.300	10/20/2014	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	32.0	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87		
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76		

Surrogate: 1-Chlorooctane 88.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.3 % 52.1-176

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Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: 3 PT. COMP 6" S SCRAPE (H403209-04)

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	10/20/2014	ND	1.83	91.5	2.00	5.27		
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71		
Total BTEX	<0.300	0.300	10/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	144	16.0	10/20/2014	ND	416	104	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	<50.0	50.0	10/20/2014	ND	186	93.2	200	1.87		
DRO >C10-C28	1230	50.0	10/20/2014	ND	195	97.5	200	2.76		

Surrogate: 1-Chlorooctane 93.3 % 47.2-157
Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: N WALL 1' SCRAPE (H403209-05)

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	10/20/2014	ND	1.83	91.5	2.00	5.27	
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28	
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47	
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71	
Total BTEX	<0.300	0.300	10/20/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76	

Surrogate: 1-Chlorooctane 91.5 % 47.2-157
Surrogate: 1-Chlorooctadecane 98.6 % 52.1-176

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 Fax To: (575) 397-1471

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S WALL 1' SCRAPE (H403209-06)

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	10/20/2014	ND	1.83	91.5	2.00	5.27	
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28	
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47	
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71	
Total BTEX	<0.300	0.300	10/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	80.0	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76	

Surrogate: 1-Chlorooctane 93.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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 LAURA FLORES
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 Fax To: (575) 397-1471

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: E WALL 1' SCRAPE (H403209-07)

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	10/20/2014	ND	1.83	91.5	2.00	5.27	
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28	
Ethylbenzene*	0.054	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47	
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71	
Total BTEX	<0.300	0.300	10/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	10/20/2014	ND	416	104	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	<50.0	50.0	10/20/2014	ND	186	93.2	200	1.87	
DRO >C10-C28	1860	50.0	10/20/2014	ND	195	97.5	200	2.76	

Surrogate: 1-Chlorooctane 94.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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 LAURA FLORES
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 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: W WALL 1' SCRAPE (H403209-08)

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	10/20/2014	ND	1.83	91.5	2.00	5.27		
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71		
Total BTEX	<0.300	0.300	10/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	336	16.0	10/20/2014	ND	416	104	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	<50.0	50.0	10/20/2014	ND	186	93.2	200	1.87		
DRO >C10-C28	1840	50.0	10/20/2014	ND	195	97.5	200	2.76		

Surrogate: 1-Chlorooctane 95.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 52.1-176

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 Fax To: (575) 397-1471

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: 3 PT. COMP 1' SCRAPE (H403209-09)

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	10/20/2014	ND	1.83	91.5	2.00	5.27		
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71		
Total BTEX	<0.300	0.300	10/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	128	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87		
DRO >C10-C28	52.1	10.0	10/20/2014	ND	195	97.5	200	2.76		

Surrogate: 1-Chlorooctane 90.3 % 47.2-157
Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: N WALL 1.5' SCRAPE (H403209-10)

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	10/20/2014	ND	1.83	91.5	2.00	5.27	
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28	
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47	
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71	
Total BTEX	<0.300	0.300	10/20/2014	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	304	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76	

Surrogate: 1-Chlorooctane 88.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.8 % 52.1-176

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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:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: S WALL 1.5' SCRAPE (H403209-11)

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	10/20/2014	ND	1.83	91.5	2.00	5.27		
Toluene*	<0.050	0.050	10/20/2014	ND	1.72	86.0	2.00	6.28		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.63	81.3	2.00	6.47		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	4.84	80.7	6.00	6.71		
Total BTEX	<0.300	0.300	10/20/2014	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	448	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	186	93.2	200	1.87		
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	195	97.5	200	2.76		

Surrogate: 1-Chlorooctane 92.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.3 % 52.1-176

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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:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: E WALL 1.5' SCRAPE (H403209-12)

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	10/20/2014	ND	1.84	91.8	2.00	3.54		
Toluene*	<0.050	0.050	10/20/2014	ND	1.83	91.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.84	92.2	2.00	3.72		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	5.45	90.8	6.00	3.45		
Total BTEX	<0.300	0.300	10/20/2014	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	272	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	177	88.3	200	1.44		
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58		

Surrogate: 1-Chlorooctane 82.3 % 47.2-157
Surrogate: 1-Chlorooctadecane 92.5 % 52.1-176

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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:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: W. WALL 1.5' SCRAPE (H403209-13)

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	10/20/2014	ND	1.84	91.8	2.00	3.54	
Toluene*	<0.050	0.050	10/20/2014	ND	1.83	91.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.84	92.2	2.00	3.72	
Total Xylenes*	<0.150	0.150	10/20/2014	ND	5.45	90.8	6.00	3.45	
Total BTEX	<0.300	0.300	10/20/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.0 % 52.1-176

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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:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: 3 PT. COMP 1.5' SCRAPE (H403209-14)

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	10/20/2014	ND	1.84	91.8	2.00	3.54		
Toluene*	<0.050	0.050	10/20/2014	ND	1.83	91.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	10/20/2014	ND	1.84	92.2	2.00	3.72		
Total Xylenes*	<0.150	0.150	10/20/2014	ND	5.45	90.8	6.00	3.45		
Total BTEX	<0.300	0.300	10/20/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	10/20/2014	ND	416	104	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	10/20/2014	ND	177	88.3	200	1.44		
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58		

Surrogate: 1-Chlorooctane 84.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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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 D. Keene, Lab Director/Quality Manager

RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <i>KECS</i>			BILL TO				ANALYSIS REQUEST																							
Project Manager: <i>Laura Flores, Jacob Kamphra</i>			P.O. #:																											
Address:			Company:																											
City: State: Zip:			Attn:																											
Phone #: Fax #:			Address:																											
Project #: Project Owner:			City:																											
Project Name:			State: Zip:																											
Project Location: <i>Gissler A #19</i>			Phone #:																											
Sampler Name: <i>Kyle Schmidt</i>			Fax #:																											
FOR LAB USE ONLY																														
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX																PRESERV.	SAMPLING										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																	
<i>11</i>	<i>South Wall 1.5' scrape</i>	<i>G 1</i>			<i>X</i>				<i>X</i>		<i>10-17-14</i>	<i>1:30</i>	<i>X</i>	<i>X</i>	<i>X</i>															
<i>12</i>	<i>East Wall 1.5' scrape</i>	<i>G 1</i>			<i>X</i>				<i>X</i>		<i>S</i>	<i>1:35</i>	<i>X</i>	<i>X</i>	<i>X</i>															
<i>13</i>	<i>West Wall 1.5' scrape</i>	<i>G 1</i>			<i>X</i>				<i>X</i>		<i>S</i>	<i>1:40</i>	<i>X</i>	<i>X</i>	<i>X</i>															
<i>14</i>	<i>3point composite 1.5 scrape</i>	<i>C 1</i>			<i>X</i>				<i>X</i>		<i>S</i>	<i>1:45</i>	<i>X</i>	<i>X</i>	<i>X</i>															

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Relinquished By: <i>Kyle Schmidt</i>	Date: <i>10-17-14</i>	Received By: <i>Jenny Lewis</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>3:50</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>All OK</i>	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	<i>4.40c</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>KS</i>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



October 21, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A #19

Enclosed are the results of analyses for samples received by the laboratory on 10/20/14 16:17.

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, flowing 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:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: N WALL E 6" SCRAPE (H403221-01)

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	10/21/2014	ND	1.81	90.6	2.00	8.37	
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88	
Total BTEX	<0.300	0.300	10/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	480	16.0	10/21/2014	ND	400	100	400	3.92	

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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	123	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 85.7 % 47.2-157
Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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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:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: E WALL E 6" SCRAPE (H403221-02)

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	10/21/2014	ND	1.81	90.6	2.00	8.37		
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23		
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37		
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88		
Total BTEX	<0.300	0.300	10/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	208	16.0	10/21/2014	ND	400	100	400	3.92		

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	10/21/2014	ND	178	89.0	200	2.01		
DRO >C10-C28	320	10.0	10/21/2014	ND	209	105	200	3.44		

Surrogate: 1-Chlorooctane 84.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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Analytical Results For:

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

Received:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W WALL E 6" SCRAPE (H403221-03)

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	10/21/2014	ND	1.81	90.6	2.00	8.37		
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23		
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37		
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88		
Total BTEX	<0.300	0.300	10/21/2014	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	32.0	16.0	10/21/2014	ND	400	100	400	3.92		

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	10/21/2014	ND	178	89.0	200	2.01		
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44		

Surrogate: 1-Chlorooctane 89.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 2 PT COMP 6" SCRAPE (H403221-04)

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	10/21/2014	ND	1.81	90.6	2.00	8.37		
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23		
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37		
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88		
Total BTEX	<0.300	0.300	10/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	320	16.0	10/21/2014	ND	400	100	400	3.92		

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	10/21/2014	ND	178	89.0	200	2.01		
DRO >C10-C28	597	10.0	10/21/2014	ND	209	105	200	3.44		

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 149 % 52.1-176

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* = Accredited Analyte

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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:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: N WALL W 6" SCRAPE (H403221-05)

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	10/21/2014	ND	1.81	90.6	2.00	8.37	
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88	
Total BTEX	<0.300	0.300	10/21/2014	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	400	16.0	10/21/2014	ND	400	100	400	3.92	

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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	79.6	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 98.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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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:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: E WALL W 6" SCRAPE (H403221-06)

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	10/21/2014	ND	1.81	90.6	2.00	8.37		
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23		
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37		
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88		
Total BTEX	<0.300	0.300	10/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	10/21/2014	ND	400	100	400	3.92		

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	10/21/2014	ND	178	89.0	200	2.01		
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44		

Surrogate: 1-Chlorooctane 94.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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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:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W WALL W 6" SCRAPE (H403221-07)

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	10/21/2014	ND	1.81	90.6	2.00	8.37		
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23		
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37		
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88		
Total BTEX	<0.300	0.300	10/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	176	16.0	10/21/2014	ND	400	100	400	3.92		

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	10/21/2014	ND	178	89.0	200	2.01		
DRO >C10-C28	175	10.0	10/21/2014	ND	209	105	200	3.44		

Surrogate: 1-Chlorooctane 94.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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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:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 2 PT. COMP W 6" SCRAPE (H403221-08)

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	10/21/2014	ND	1.81	90.6	2.00	8.37	
Toluene*	<0.050	0.050	10/21/2014	ND	1.72	85.8	2.00	8.23	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.61	80.6	2.00	9.37	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	4.79	79.8	6.00	9.88	
Total BTEX	<0.300	0.300	10/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	272	16.0	10/21/2014	ND	400	100	400	3.92	

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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	540	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 95.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

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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 D. Keene, Lab Director/Quality Manager



October 27, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A #19

Enclosed are the results of analyses for samples received by the laboratory on 10/24/14 15:50.

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".

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:	10/24/2014	Sampling Date:	10/24/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 1' SCRAPE EAST WALL (H403285-01)

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	10/27/2014	ND	2.02	101	2.00	2.35	
Toluene*	<0.050	0.050	10/27/2014	ND	1.91	95.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/27/2014	ND	1.79	89.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	10/27/2014	ND	5.33	88.8	6.00	0.173	
Total BTEX	<0.300	0.300	10/27/2014	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	<16.0	16.0	10/27/2014	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	10/24/2014	ND	201	100	200	0.982	
DRO >C10-C28	<10.0	10.0	10/24/2014	ND	188	94.1	200	1.63	

Surrogate: 1-Chlorooctane 105 % 47.2-157
Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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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:	10/24/2014	Sampling Date:	10/24/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 1' SCRAPE WEST WALL (H403285-02)

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	10/27/2014	ND	2.02	101	2.00	2.35	
Toluene*	<0.050	0.050	10/27/2014	ND	1.91	95.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/27/2014	ND	1.79	89.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	10/27/2014	ND	5.33	88.8	6.00	0.173	
Total BTEX	<0.300	0.300	10/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	10/27/2014	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	10/24/2014	ND	201	100	200	0.982	
DRO >C10-C28	<10.0	10.0	10/24/2014	ND	188	94.1	200	1.63	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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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



CARDINAL 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 /		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																		
Address: 419 W Cain		Company:																									
City: Hobbs State: NM Zip: 88240		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: Burnett oil co		State: Zip:																									
Project Location: Gistler A-19		Phone #:																									
Sampler Name: Joshua Balcom		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS							MATRIX				PRESERV.			SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
4403285	1 1' scrape East Wall	G				✓				✓			10-24-14	9:00	✓	✓	✓										
	2 2' scrape West Wall	G				✓				✓				9:10	✓	✓	✓										

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Relinquished By:	Date: 10-24-14 Time: 3:50	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.80		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY:
REMARKS: email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: jbalcom@rice-ecs.com			

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

#54

October 27, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A #19

Enclosed are the results of analyses for samples received by the laboratory on 10/24/14 15:50.

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

Analytical Results For:

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

Received:	10/24/2014	Sampling Date:	10/24/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOUTH 9" SCRAPE 5 PT. COMP BTTM (H403286-01)

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	10/27/2014	ND	2.02	101	2.00	2.35	
Toluene*	<0.050	0.050	10/27/2014	ND	1.91	95.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/27/2014	ND	1.79	89.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	10/27/2014	ND	5.33	88.8	6.00	0.173	
Total BTEX	<0.300	0.300	10/27/2014	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	32.0	16.0	10/27/2014	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	10/24/2014	ND	201	100	200	0.982	
DRO >C10-C28	<10.0	10.0	10/24/2014	ND	188	94.1	200	1.63	

Surrogate: 1-Chlorooctane 106 % 47.2-157
Surrogate: 1-Chlorooctadecane 114 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of 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.



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



CARDINAL 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 /				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																			
Address: 419 W Cain				Company:																							
City: Hobbs		State: NM Zip: 88240		Attn:																							
Phone #:		Fax #:		Address:																							
Project #:		Project Owner:		City:																							
Project Name: <i>Burnett oil co.</i>				State: Zip:																							
Project Location: <i>Gissler A-19</i>				Phone #:																							
Sampler Name: Joshua Balcom				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX												PRESERV.		SAMPLING							
<i>H403786</i>						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME																	
		<i>South 9" scrape Spt. Composite Bottom</i>		<i>C 1</i>						<i>10-24-14 1:30</i>																	

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <i>10-24-14</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <i>3:50</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	Time:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: jbalcom@rice-ecs.com	
	<i>4:80</i>	CHECKED BY: <i>JH</i>		

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

#54



December 08, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A #19

Enclosed are the results of analyses for samples received by the laboratory on 12/05/14 14:50.

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".

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:	12/05/2014	Sampling Date:	12/05/2014
Reported:	12/08/2014	Sampling Type:	Soil
Project Name:	GISSLER A #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: 5 PT. COMP IMPORTED CALICHE (H403725-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/08/2014	ND	432	108	400	3.77	

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>MECS</u>				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Laura Flores</u>				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																	
Address:				Company:																					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																					
Phone #: Fax #:				Address:																					
Project #: Project Owner:				City:																					
Project Name: <u>Burnett oil co.</u>				State: Zip:																					
Project Location: <u>Gisler A-19</u>				Phone #:																					
Sampler Name: <u>Sabra Boker</u>				Fax #:																					
FOR LAB USE ONLY				MATRIX												PRESERV.				SAMPLING					
Lab I.D.		Sample I.D.		# CONTAINERS		GROUNDWATER										WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE:	
<u>H403125</u>		<u>Spt-Composite impaled Colime</u>		<u>1</u>						<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						<u>12-5-14</u>		<u>2:00</u>	

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: <u>12-5-14</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: <u>2:50</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Time:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other: <u>5.8c</u>			Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <u>Jkalam</u> @rice-ecs.com	
			Checked By: (Initials) <u>KP</u>		

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

#54

Appendix D

Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Burnett Oil Gissler A 19

Unit Letter J, Section 14, T17S, R30E



Initial release area, facing northwest

7/7/14



Initial release area, facing northeast

7/7/14



Initial release area, facing southeast

7/7/14



Hand augur for depth, facing north

7/9/14



Beginning south 9 inch scrape, facing southwest
10/15/14



Beginning 1 ft scrape, facing northeast
10/16/14



Beginning 1.5 ft scrape, facing northeast
10/16/14



Exporting soil, facing southeast
10/20/14



Scraping 6 inches around well head, facing north
10/20/14



Scrapes completed, facing north
10/24/14



Importing caliche, facing northwest
11/10/14



Micro-Blazing vegetation, facing west
11/10/14



Backfilling site, facing northeast

11/11/14



Site completed, facing west

11/11/14

Appendix E

Final C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Burnett Oil Co.	Contact
Address 87 Square Lake Rd., Loco Hills, NM 88255	Telephone No.
Facility Name Gissler A 19	Facility Type Well head
Surface Owner BLM	Mineral Owner
API No. 30-015-32835	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	14	17S	30E	2310	FSL	2310	FEL	Eddy

Latitude 32.8336322529691 **Longitude** -103.941654295496

NATURE OF RELEASE

Type of Release Produced water and oil	Volume of Release 20 bbls	Volume Recovered 15 bbls
Source of Release Well head	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 6/30/14 7:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The threads on the 5 1/2 in casing pin failed releasing 20 bbls of produced water and oil.

Describe Area Affected and Cleanup Action Taken.* A total of 7,132 sq ft of lease pad and pasture land was affected by the release. A vacuum truck was called to the site and recovered 15 bbls of fluid. RECS personnel were on site beginning on July 7th, 2014, to assess the release. Five points within the release area were field sampled at the surface, and four of the points were sampled with depth. Representative samples were taken to a commercial laboratory for analysis. Based on the sampling data, a CAP was submitted to NMOCD and BLM on August 19th, 2014. NMOCD approved the CAP on August 20th, 2014, with the stipulation that horizontal confirmation samples be taken from either the side walls or outside the excavation area. Corrective actions began at the site on October 15th, 2014. The release on the lease pad was excavated in 5 parts. Once each scrape was completed, final wall and bottom samples were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analysis. The southernmost 6 inch bgs scrape, located around Point 5, returned an elevated chloride concentration for the 5 point bottom composite. Therefore, the scrape was deepened to 9 inches bgs, and another 5 point bottom composite was taken. The 5 point bottom composite at 9 inches bgs returned an acceptable chloride value of 32 mg/kg. A request to backfill the site was sent to NMOCD and BLM on October 31st, 2014. NMOCD approved the site to be backfilled on November 3rd, 2014, and BLM approved the site to be backfilled on November 13th, 2014. All excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to serve as backfill. A sample of the caliche was taken to a commercial laboratory for analysis and returned a chloride value of 176 mg/kg. The scrapes were backfilled with the imported caliche and contoured to the surrounding location. The vegetation that was affected by the release was sprayed with Micro-Blaze on November 10th, 2014. This washed vegetation will be monitored for continued health.

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: Leslie Garvis	Approved by Environmental Specialist:	
Title: Regulatory Coordinator	Approval Date:	Expiration Date:
E-mail Address: lgarvis@burnettoil.com	Conditions of Approval:	
Date: 12/22/14 Phone: 817-583-8730	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary