

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 Jackson B 67	Facility Type Well tester on site
Surface Owner BLM	Mineral Owner
API No. 30-015-41968	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	24	17S	30E	2130	FNL	1785	FEL	Eddy

Latitude 32.821405 Longitude -103.922745

NATURE OF RELEASE

Type of Release An overspray of oil and produced water	Volume of Release 136 bbls	Volume Recovered 0 bbls
Source of Release Well Tester	Date and Hour of Occurrence 7/5/2014 7:00 PM	Date and Hour of Discovery 7/5/2014 7:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Kyle Norman	Date and Hour: Email BLM and NMOCD on 7/7/2014	
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 well had a well tester on it. The well tester pressured up and popped off causing an over spray of oil and produced water.

Describe Area Affected and Cleanup Action Taken.* A total of 1,014,373 sq ft of lease pad and pasture land was affected by the release. RECS personnel were on site beginning on July 7th, 2014, to assess the release. Surface samples were taken at seven points within the release area, and two points were sampled with depth. The samples were taken to a commercial laboratory for analysis. Based on the laboratory analysis, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on August 1st, 2014. NMOCD approved the CAP on August 1st, 2014, with the stipulation that horizontal and vertical confirmation samples would be taken from the area where the fluids pooled. RECS discussed the CAP with BLM on August 4th, 2014, and BLM verbalized its concerns with portions of the CAP. Based on this conversation, an Amendment to the CAP was submitted to NMOCD and BLM on August 4th, 2014, to address these concerns. BLM approved the Amendment to the CAP on August 4th, 2014, and NMOCD approved the Amendment to the CAP on August 7th, 2014. RECS personnel were on site beginning on August 11th, 2014, to conduct CAP work. Micro-Blaze was applied to the overspray area in the pasture. The area on the pad, where the fluids pooled, was scraped down to 6 inches bgs. Once the scrape was completed, final grab samples from the walls of the scrape and a final bottom composite from the base of the scrape were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analysis. NMOCD gave approval to backfill the site on September 9th, 2014. A total of 252 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal, and a total of 348 cubic yards of caliche was imported to the site to serve as backfill. A sample of the imported caliche was taken to a commercial laboratory for analysis. The scrape was backfilled with the imported caliche and contoured to the surrounding location.

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>Leslie Garvis</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: <i>LESLIE GARVIS</i>	Approved by Environmental Specialist:	
Title: <i>REGULATORY COORDINATOR - BURNETT</i>	Approval Date:	Expiration Date:
E-mail Address: <i>Lgarvis@burnettoil.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>10/16/14</i> Phone: <i>817-583-8730</i>		

* Attach Additional Sheets If Necessary

October 15th, 2014

Mr. Mike Bratcher

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

**RE: Termination Request
Burnett Oil Co. – Jackson B 67
UL/G sec. 24 T17S R30E
API No. 30-015-41968**

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 3.4 miles east of Loco Hills, New Mexico at UL/G sec. 24 T17S R30E. The overspray is located in UL/B, C, F, G sec. 24 T17S R30E. This site is in an area of no known groundwater (Figure 1).

On July 5th, 2014, Burnett had a well tester on the well head that when pressured up popped off causing an overspray of 136 barrels of oil and produced water over 1,014,373 square feet of lease pad, lease road and pasture land. NMOCD and BLM were notified of the release on July 7th, 2014, and an initial C-141 was submitted on July 9th, 2014, to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on July 7th, 2014, to assess the release. Surface samples were taken at seven points within the release area, and two points were sampled with depth (Figure 2). The samples were field tested for chlorides and organic vapors, and all samples were taken to a commercial laboratory for analysis (Appendix B). Point 1 and Point 2 were sampled to a depth of 6 inches bgs where chlorides, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings were all below regulatory standards. Points 3 through 7 returned laboratory readings below regulatory standards at the surface.

Based on the laboratory analysis, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on August 1st, 2014. The CAP stated that the areas around Point 1 and Point 2 would be scraped down to 6 inches bgs. A composite sample from the base of the scrape would be taken and sent to a commercial laboratory to confirm that chloride, GRO, DRO and BTEX values were below regulatory standards. The area closer to the well head, where pooling of fluids occurred,

would be scraped down until a composite sample of the scrape showed laboratory chloride, GRO, DRO and BTEX values below regulatory standards.

All soils from the scrapes would be evaluated for use as backfill and any soils that did not meet regulatory standards would be sent to a NMOCD approved facility for disposal. Clean soil would be imported to the site to replace any soils taken for disposal. A sample of the soil would be taken and sent to a commercial laboratory for analysis to confirm that the chloride value was below regulatory standards. The scrapes would be backfilled with the clean soil and contoured to the surrounding location.

The remainder of the site is oil overspray that had partially covered the vegetation in the area. Therefore, the areas around Points 3-7 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.

NMOCD approved the CAP on August 1st, 2014, with the stipulation that horizontal and vertical confirmation samples would be taken from the area where the fluids pooled. RECS discussed the CAP with BLM on August 4th, 2014, and BLM verbalized its concerns with portions of the CAP. Based on this conversation, an Amendment to the CAP was submitted to NMOCD and BLM on August 4th, 2014, to address these concerns. The Amendment to the CAP said that since BLM was concerned that conducting the scrape in the pasture area would be a detriment to the dunes and habitat in the area, BLM recommended that Micro-Blaze be applied over the entire release area located in the pasture. The pasture area would be checked for vegetative growth in the fall of 2014 to determine whether further actions needed to be taken. The area closer to the well head, where pooling of fluids occurred, would still be scraped down until a composite sample of the scrape showed laboratory chloride, GRO, DRO and BTEX values below regulatory standards. BLM approved the Amendment to the CAP on August 4th, 2014, and NMOCD approved the Amendment to the CAP on August 7th, 2014.

RECS personnel were on site beginning on August 11th, 2014, to conduct CAP work. Micro-Blaze was applied to the overspray area in the pasture. The area on the pad, where the fluids pooled, was scraped down to 6 inches bgs. Once the scrape was completed, final grab samples from the walls of the scrape and a final bottom composite from the base of the scrape were taken and field tested for chlorides and organic vapors (Figure 3). The samples were then taken to a commercial laboratory for analysis (Appendix C). All samples returned chloride values below 1,000 mg/kg, GRO and BTEX values of non-detect and low to non-detect DRO values. NMOCD gave approval to backfill the site on September 9th, 2014.

A total of 252 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal, and a total of 348 cubic yards of caliche was imported to the site to serve as backfill. A sample of the imported caliche was taken to a commercial laboratory for analysis and returned a chloride value of 512 mg/kg. The scrape was backfilled with the imported caliche and contoured to the surrounding location.

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

Given that the pasture has been treated with Micro-Blaze and the pad remediated as stated in the approved CAP, Burnett 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 'L. Weinheimer', with a long horizontal flourish extending to the right.

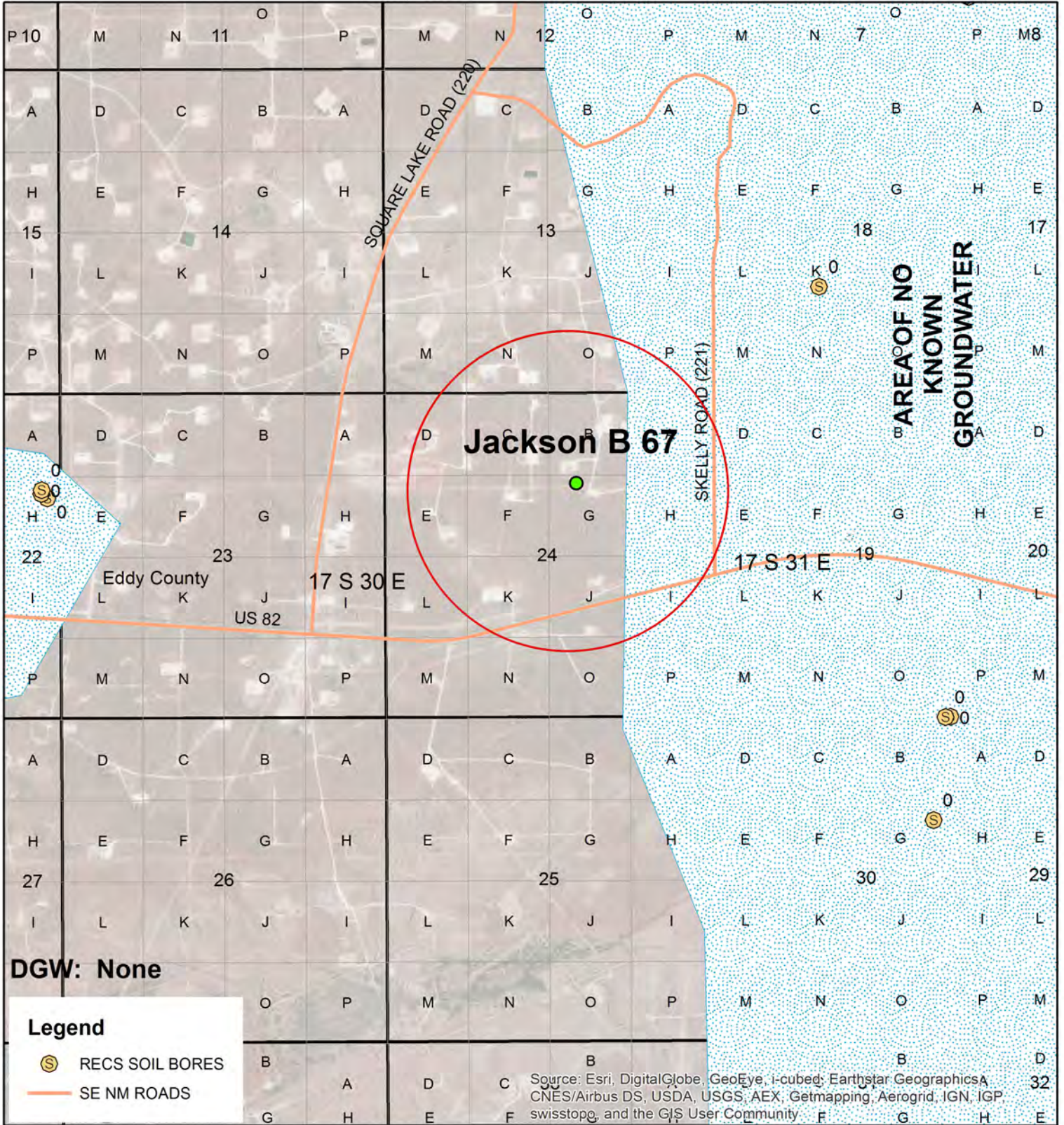
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Depth to Groundwater
- Figure 2 – Initial Sampling Data
- Figure 3 – Excavation Data on Pad
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Excavation Sampling Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

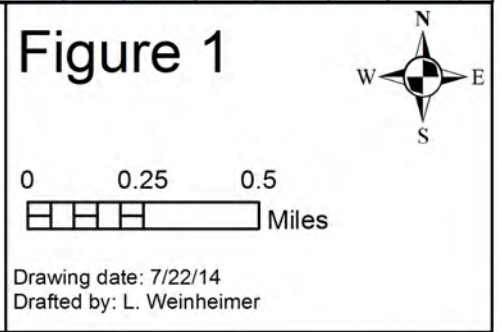
Figures

Depth to Groundwater



**BURNETT OIL
JACKSON B 67**

UL G SECTION 24
T-17-S R-30-E
EDDY COUNTY, NM

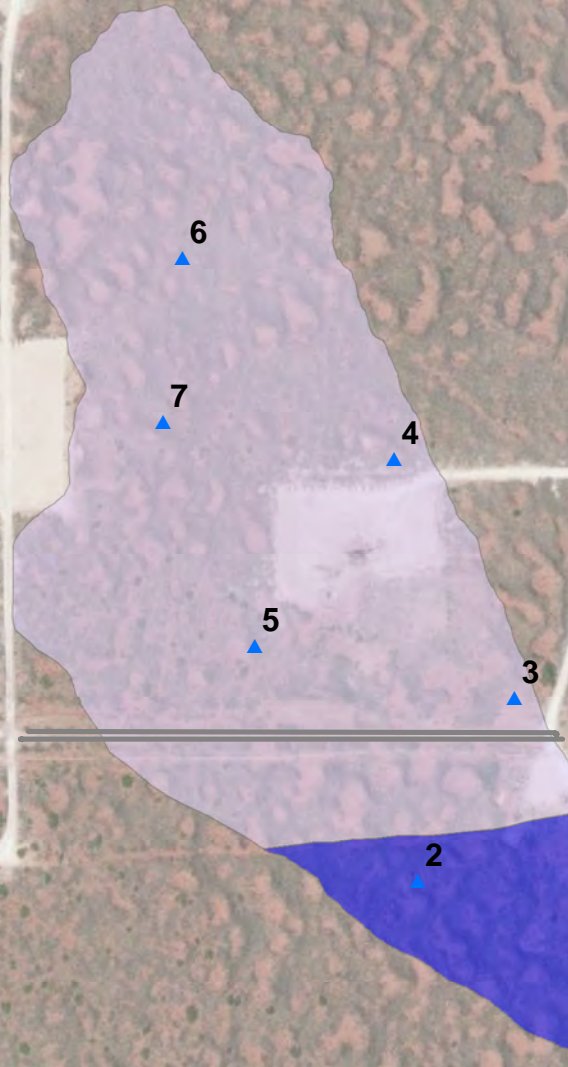


Initial Sampling Data

		Point 1								
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
Surface	4400	332.6	141	11900	<0.1	<0.1	0.146	0.359	<0.6	
6"	160	1.3	<10	47.3	<0.05	<0.05	<0.05	<0.15	<0.3	

		Point 2								
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
Surface	1120	59.3	<50	2170	<0.05	<0.05	<0.05	<0.15	<0.3	
6"	48	1.8	<10	14.2	<0.05	<0.05	<0.05	<0.15	<0.3	

		Initial Surface Samples								
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
Pt. 3	176	2.8	<10	58.2	<0.05	<0.05	<0.05	<0.15	<0.3	
Pt. 4	80	3.4	<10	22.8	<0.05	<0.05	<0.05	<0.15	<0.3	
Pt. 5	160	23.2	<10	19.9	<0.05	<0.05	<0.05	<0.15	<0.3	
Pt. 6	80	27.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	
Pt. 7	176	23.9	<10	38.6	<0.05	<0.05	<0.05	<0.15	<0.3	



Landowner: BLM
DGW: None

Legend

- OIL WELL
- ▲ SAMPLE POINT 7/8/14
- ROAD EDGE
- LIGHTER OVERSPRAY- 863,497 SQ FT
- HEAVIER OVERSPRAY- 154,853 SQ FT
- SATURATED AREA

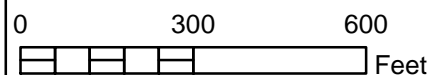
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



BURNETT OIL JACKSON B 67

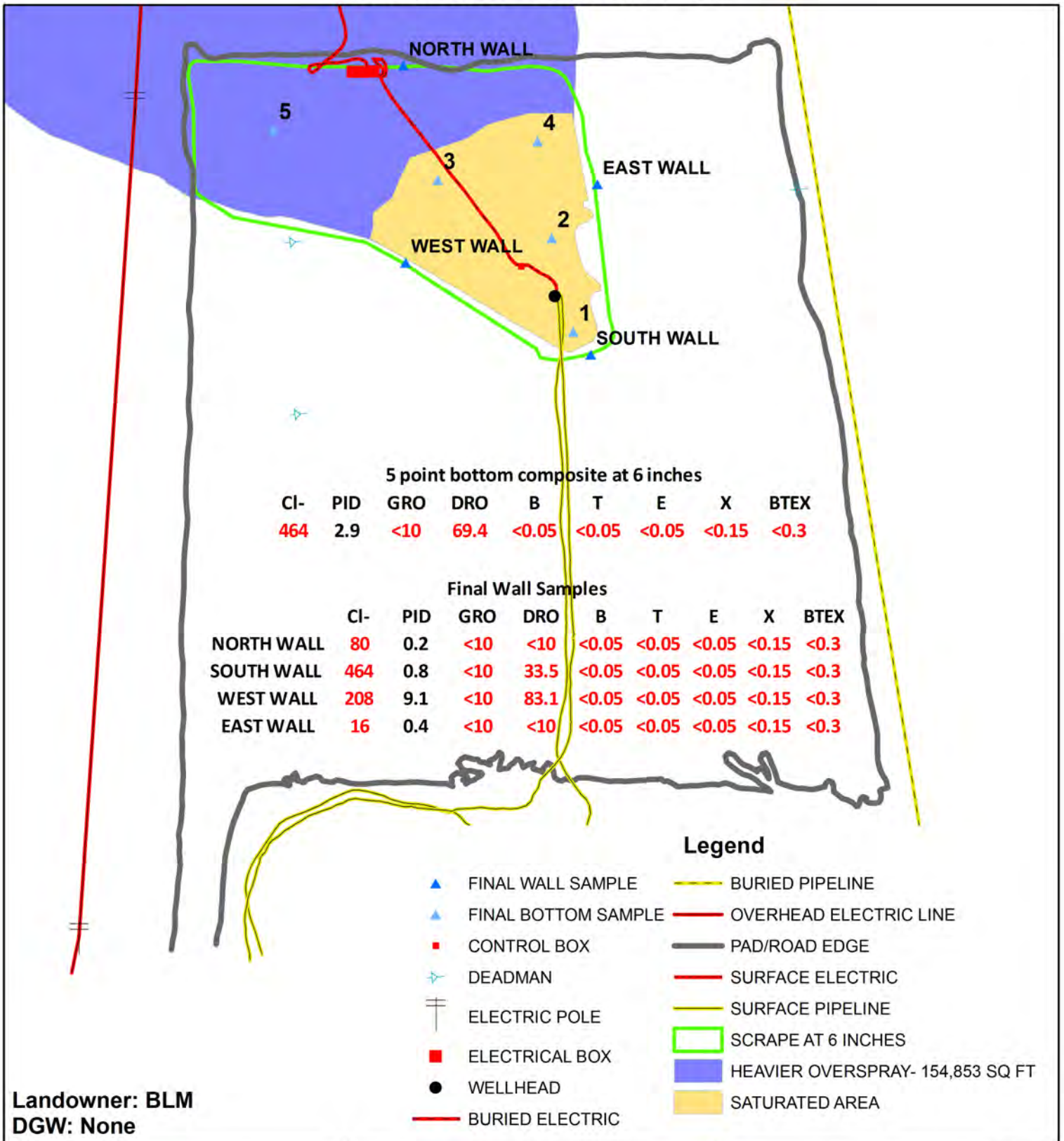
UL G SECTION 24
T-17-S R-30-E
EDDY COUNTY, NM

Figure 2



GPS date: 7/7/14 JB & KS, 7/8/14 KS
Drawing date: 7/18/14
Drafted by: T. Grieco/L.Weinheimer

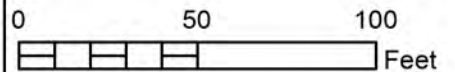
Excavation Data on Pad



BURNETT OIL JACKSON B 67

UL G SECTION 24
T-17-S R-30-E
EDDY COUNTY, NM

Figure 3



GPS date: 8/19/14 TG, 8/27/14 JB
Drawing date: 8/28/14
Drafted by: T. Grieco, L. Weinheimer, B. Cooper

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
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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 Shawna Matthews
Address 87 Square Lake Rd., Loco Hills, NM 88255	Telephone No. (575) 219-6370
Facility Name Jackson B 67	Facility Type Well tester on site
Surface Owner BLM	Mineral Owner
API No. 30-015-41968	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	24	17S	30E	2130	FNL	1785	FEL	Eddy

Latitude 32.821405 Longitude -103.922745

NATURE OF RELEASE

Type of Release An overspray of oil and produced water	Volume of Release 136 bbls	Volume Recovered 0 bbls
Source of Release Well Tester	Date and Hour of Occurrence 7/5/2014 7:00 PM	Date and Hour of Discovery 7/5/2014 7:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Kyle Norman	Date and Hour: Email BLM and NMOCD on 7/7/2014	
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 well had a well tester on it. The well tester pressured up and popped off causing an over spray of oil and produced water.

Describe Area Affected and Cleanup Action Taken.*

A total of 1,014,373 sq ft of lease pad and pasture land was affected by the release. The site will be assessed and a Corrective Action Plan will be submitted for NMOCD and BLM approval.

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: Shawna Matthews	Approved by Environmental Specialist:	
Title: Senior Production Technician	Approval Date:	Expiration Date:
E-mail Address: smatthews@burnettoil.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-9-14	Phone: (575) 219-6370	

* Attach Additional Sheets If Necessary

Appendix B

Initial Sampling Lab

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



July 18, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: JACKSON B #67

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script 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:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H402118-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2014	ND	2.06	103	2.00	12.6	
Toluene*	<0.100	0.100	07/17/2014	ND	2.06	103	2.00	12.3	
Ethylbenzene*	0.146	0.100	07/17/2014	ND	2.13	106	2.00	12.2	
Total Xylenes*	0.359	0.300	07/17/2014	ND	6.39	106	6.00	12.7	
Total BTEX	<0.600	0.600	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	4400	16.0	07/16/2014	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	141	100	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	11900	100	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 295 % 63.6-154

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

Analytical Results For:

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

Received:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H402118-02)

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	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<0.300	0.300	07/17/2014	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	1120	16.0	07/16/2014	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	<50.0	50.0	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	2170	50.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 178 % 63.6-154

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

Analytical Results For:

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

Received:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H402118-03)

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	07/17/2014	ND	2.26	113	2.00	3.51		
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14		
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52		
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43		
Total BTEX	<0.300	0.300	07/17/2014	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	176	16.0	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	58.2	10.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 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:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H402118-04)

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	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<0.300	0.300	07/17/2014	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	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	22.8	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 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:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ SURFACE (H402118-05)

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	07/17/2014	ND	2.26	113	2.00	3.51		
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14		
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52		
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43		
Total BTEX	<0.300	0.300	07/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	160	16.0	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	19.9	10.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 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:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 6 @ SURFACE (H402118-06)

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	07/17/2014	ND	2.26	113	2.00	3.51		
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14		
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52		
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43		
Total BTEX	<0.300	0.300	07/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 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:	07/11/2014	Sampling Date:	07/08/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 7 @ SURFACE (H402118-07)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2014	ND	2.28	114	2.00	2.77		
Toluene*	<0.050	0.050	07/16/2014	ND	2.28	114	2.00	1.94		
Ethylbenzene*	<0.050	0.050	07/16/2014	ND	2.39	119	2.00	2.07		
Total Xylenes*	<0.150	0.150	07/16/2014	ND	7.18	120	6.00	1.62		
Total BTEX	<0.300	0.300	07/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	176	16.0	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	38.6	10.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 124 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 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:	07/11/2014	Sampling Date:	07/10/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ 6" (H402118-08)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2014	ND	2.28	114	2.00	2.77		
Toluene*	<0.050	0.050	07/16/2014	ND	2.28	114	2.00	1.94		
Ethylbenzene*	<0.050	0.050	07/16/2014	ND	2.39	119	2.00	2.07		
Total Xylenes*	<0.150	0.150	07/16/2014	ND	7.18	120	6.00	1.62		
Total BTEX	<0.300	0.300	07/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	47.3	10.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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*=Accredited Analyte

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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:	07/11/2014	Sampling Date:	07/10/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 6" (H402118-09)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2014	ND	2.28	114	2.00	2.77		
Toluene*	<0.050	0.050	07/16/2014	ND	2.28	114	2.00	1.94		
Ethylbenzene*	<0.050	0.050	07/16/2014	ND	2.39	119	2.00	2.07		
Total Xylenes*	<0.150	0.150	07/16/2014	ND	7.18	120	6.00	1.62		
Total BTEX	<0.300	0.300	07/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/16/2014	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	07/15/2014	ND	192	95.9	200	0.641		
DRO >C10-C28	14.2	10.0	07/15/2014	ND	203	102	200	3.60		

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



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: RECS				BILL TO				ANALYSIS REQUEST																		
Project Manager: Laura Flores, Kyle Norman				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: Jacks B #67				Phone #:																						
Sampler Name: Kyle Schmidt				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX											PRESERV.		SAMPLING		DATE	TIME	ANALYSIS REQUEST						
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:															
H402118																										
1	point 1 @ surface	6 1			X					X		2-8-14	9:45	X	X	X										
2	point 2 @ surface	6 1			X					X		}	9:50	X	X	X										
3	point 3 @ surface	6 1			X					X			9:55	X	X	X										
4	point 4 @ surface	6 1			X					X			10:00	X	X	X										
5	point 5 @ surface	6 1			X					X		10:05	X	X	X											
6	point 6 @ surface	6 1			X					X		10:10	X	X	X											
7	point 7 @ surface	6 1			X					X		10:15	X	X	X											
8	point 1 @ 6"	6 1			X					X		7-10-14	7:45	X	X	X										
9	point 2 @ 6"	6 1			X					X		7-10-14	7:50	X	X	X										

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Relinquished By: Kyle Schmidt	Date: 7-11-14 Time: 4:00	Received By: Jodi Benson	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 Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) Environmental Tech: @rice-ecs.com
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			

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

#54

Appendix C

Excavation Sampling Labs

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



August 27, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: JACKSON B #67

Enclosed are the results of analyses for samples received by the laboratory on 08/25/14 16:40.

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:	08/25/2014	Sampling Date:	08/25/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 6" SCRAPE 5 PT. COMP BOTTOM (H402604-01)

BTEX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2014	ND	1.82	91.1	2.00	6.10		
Toluene*	<0.050	0.050	08/26/2014	ND	1.70	84.9	2.00	5.49		
Ethylbenzene*	<0.050	0.050	08/26/2014	ND	1.92	95.8	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/26/2014	ND	5.67	94.5	6.00	4.97		
Total BTEX	<0.300	0.300	08/26/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	464	16.0	08/27/2014	ND	432	108	400	7.69		

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	08/26/2014	ND	200	99.9	200	1.16		
DRO >C10-C28	69.4	10.0	08/26/2014	ND	205	103	200	0.134		

Surrogate: 1-Chlorooctane 127 % 65.2-140
Surrogate: 1-Chlorooctadecane 145 % 63.6-154

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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

Cardinal Laboratories

*=Accredited Analyte

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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>NECS</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>Bunckt oil co</u>		State: Zip:																								
Project Location: <u>Jackson B-67</u>		Phone #:																								
Sampler Name: <u>Joshua Bolcom</u>		Fax #:																								
FOR LAB USE ONLY				MATRIX								PRESERV.		SAMPLING												
Lab I.D.	Sample I.D.	(G)RAB OR (COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER							SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
<u>H102604</u>	<u>6" scope Spt-Composite Bottom</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8-25-14</u>	<u>2:00</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

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: <u>[Signature]</u>		Date: <u>8/25/14</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By: _____		Time: <u>4:40</u>	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <u>[Signature]</u>
Sampler - UPS - Bus - Other: <u>4.2%</u>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				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: @rice-ecs.com

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

#54

RUSH!!



August 27, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: JACKSON B #67

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 16:05.

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 with a large, flowing "C" and "K".

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:	08/26/2014	Sampling Date:	08/26/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 6" SCRAPE NORTH WALL (H402622-01)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2014	ND	1.91	95.4	2.00	1.71	
Toluene*	<0.050	0.050	08/27/2014	ND	1.76	88.0	2.00	2.09	
Ethylbenzene*	<0.050	0.050	08/27/2014	ND	1.97	98.7	2.00	2.45	
Total Xylenes*	<0.150	0.150	08/27/2014	ND	5.88	98.0	6.00	2.39	
Total BTEX	<0.300	0.300	08/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/27/2014	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	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	<10.0	10.0	08/27/2014	ND	203	101	200	2.87	

Surrogate: 1-Chlorooctane 91.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 109 % 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:	08/26/2014	Sampling Date:	08/26/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 6" SCRAPE SOUTH WALL (H402622-02)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2014	ND	1.91	95.4	2.00	1.71	
Toluene*	<0.050	0.050	08/27/2014	ND	1.76	88.0	2.00	2.09	
Ethylbenzene*	<0.050	0.050	08/27/2014	ND	1.97	98.7	2.00	2.45	
Total Xylenes*	<0.150	0.150	08/27/2014	ND	5.88	98.0	6.00	2.39	
Total BTEX	<0.300	0.300	08/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	464	16.0	08/27/2014	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	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	33.5	10.0	08/27/2014	ND	203	101	200	2.87	

Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 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:	08/26/2014	Sampling Date:	08/26/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 6" SCRAPE WEST WALL (H402622-03)

BTEX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2014	ND	1.91	95.4	2.00	1.71		
Toluene*	<0.050	0.050	08/27/2014	ND	1.76	88.0	2.00	2.09		
Ethylbenzene*	<0.050	0.050	08/27/2014	ND	1.97	98.7	2.00	2.45		
Total Xylenes*	<0.150	0.150	08/27/2014	ND	5.88	98.0	6.00	2.39		
Total BTEX	<0.300	0.300	08/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/27/2014	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	08/27/2014	ND	185	92.6	200	2.15		
DRO >C10-C28	83.1	10.0	08/27/2014	ND	203	101	200	2.87		

Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/26/2014	Sampling Date:	08/26/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 6" SCRAPE EAST WALL (H402622-04)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2014	ND	1.91	95.4	2.00	1.71	
Toluene*	<0.050	0.050	08/27/2014	ND	1.76	88.0	2.00	2.09	
Ethylbenzene*	<0.050	0.050	08/27/2014	ND	1.97	98.7	2.00	2.45	
Total Xylenes*	<0.150	0.150	08/27/2014	ND	5.88	98.0	6.00	2.39	
Total BTEX	<0.300	0.300	08/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2014	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	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	<10.0	10.0	08/27/2014	ND	203	101	200	2.87	

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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* = 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



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: Laura Flores		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: <u>Burnett oil CO</u>		State: Zip:																						
Project Location: <u>Jackson B-67</u>		Phone #:																						
Sampler Name: <u>Justin Balcom</u>		Fax #:																						
FOR LAB USE ONLY		GIRAB OR (C)OMP. # CONTAINERS	MATRIX				PRESERV.	SAMPLING																
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL		SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
<u>H4D2622</u>																								
<u>1</u>	<u>6" scrape North Wall</u>	<u>G</u>		<u>✓</u>				<u>✓</u>			<u>8/26/14</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>2</u>	<u>6" scrape South Wall</u>	<u>G</u>		<u>✓</u>				<u>✓</u>			<u>1:05</u>	<u>1:05</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>3</u>	<u>6" scrape West Wall</u>	<u>G</u>		<u>✓</u>				<u>✓</u>			<u>1:10</u>	<u>1:10</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>4</u>	<u>6" scrape East Wall</u>	<u>G</u>		<u>✓</u>				<u>✓</u>			<u>1:15</u>	<u>1:15</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									

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Relinquished By: <u>[Signature]</u>	Date: <u>8/26/14</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <u>4:05</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS: <u>RUSH!!</u>	
Sampler - UPS - Bus - Other:		Cool Intact	email: hconder@riceswd.com; lflores@rice-ecs.com;	
	<u>3.6°C</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Intact	lweinheimer@rice-ecs.com; knorman@rice-ecs.com;	
		<input type="checkbox"/> No <input type="checkbox"/> No	jkamplain@rice-ecs.com; sedwards@rice-ecs.com;	
		CHECKED BY: <u>[Signature]</u>	cursanic@rice-ecs.com	
			Environmental Tech: <u>Jbalcom</u> @rice-ecs.com	

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

#54



August 27, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: JACKSON B #67

Enclosed are the results of analyses for samples received by the laboratory on 08/25/14 16:40.

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 with a large, flowing "C" and "K".

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:	08/25/2014	Sampling Date:	08/25/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	JACKSON B #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: IMPORTED CALICHE COMP (H402603-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/27/2014	ND	432	108	400	7.69	

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



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>RCCS</u>		BILL TO				ANALYSIS REQUEST																							
Project Manager: <u>Laura Flores</u>		P.O. #:		Company:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																		
Address:		Attn:		Address:																									
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		City:		City:																									
Phone #: _____ Fax #: _____		State: _____ Zip: _____		Phone #: _____ Fax #: _____																									
Project #: _____ Project Owner: _____		State: _____ Zip: _____		Phone #: _____ Fax #: _____																									
Project Name: <u>Burnett oil co</u>		State: _____ Zip: _____		Phone #: _____ Fax #: _____																									
Project Location: <u>Jackson B-67</u>		State: _____ Zip: _____		Phone #: _____ Fax #: _____																									
Sampler Name: <u>James Belcon</u>		State: _____ Zip: _____		Phone #: _____ Fax #: _____																									
FOR LAB USE ONLY																													
Lab I.D. <u>H4021d03</u>	Sample I.D. <u>Imported Celidex Composite</u>	(G)RAB OR (C)OMP. <u>C</u>	# CONTAINERS <u>1</u>	MATRIX								PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															

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>5/25/14</u>	Received By: <u>Jodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:		
Time: <u>4:40</u>		Date: _____	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:		
Relinquished By: _____		Date: _____	Received By: _____	REMARKS:			
Time: _____		Date: _____	Received By: _____	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: @rice-ecs.com			
Delivered By: (Circle One)		Sample Condition				CHECKED BY: <u>JH</u>	
Sampler - UPS - Bus - Other: _____		Cool Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

† 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 Co. Jackson B 67

Unit Letter G, Section 24, T17S, R30E



Initial release area, facing east

7/7/14



Initial release area, facing northwest

7/7/14



Initial release area, facing north

7/7/14



Initial release area, facing northeast

7/7/14



Applying Micro-Blaze, facing west 8/11/14



Applying Micro-Blaze, facing northeast 8/15/14



Scraping pad to 6 inches bgs, facing northwest 8/25/14



Importing soil, facing southwest 8/26/14



6 inch scrape completed, facing southeast 8/26/14



Backfilling scrape, facing southeast 8/27/14



Exporting soil, facing southwest 8/28/14



Scrape of pad completed, facing west 8/28/14



Scrape of pad completed, facing southwest 8/28/14



Scrape of pad completed, facing southeast 8/28/14



Return of vegetated growth, facing northwest 9/25/14



Return of vegetated growth, facing southeast 9/25/14

Appendix E

Final C-141

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