



**ANNUAL REPORT OF PRESSURE MONITORING,  
FLUID INJECTION AND ENHANCED RECOVERY**

Complete all blanks - add pages if needed. Copy to be retained for five (5) years after filing date.

OPERATOR: License # \_\_\_\_\_  
Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_  
Lease Name: \_\_\_\_\_  
Well Number: \_\_\_\_\_

API No.: \_\_\_\_\_  
Permit No.: \_\_\_\_\_  
Reporting Year: \_\_\_\_\_  
(January 1 to December 31)  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_ - \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_  E  W  
(a/a/a/a)  
\_\_\_\_\_ feet from  N /  S Line of Section  
\_\_\_\_\_ feet from  E /  W Line of Section  
County: \_\_\_\_\_

**I. Injection Fluid:**

Type (Pick one):  Fresh Water  Treated Brine  Untreated Brine  Water/Brine  
Source:  Produced Water  Other (Attach list)  
Quality: Total Dissolved Solids: \_\_\_\_\_ mg/l Specific Gravity: \_\_\_\_\_ Additives: \_\_\_\_\_  
(Attach water analysis, if available)

**II. Well Data:**

Maximum Authorized Injection Pressure: \_\_\_\_\_ psi Injection Zone: \_\_\_\_\_  
Maximum Authorized Injection Rate: \_\_\_\_\_ barrels per day  
Total Number of Enhanced Recovery Injection Wells Covered by this Permit: \_\_\_\_\_ (Include TA's)

III.	Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection
	January	_____	_____	_____	_____	_____
	February	_____	_____	_____	_____	_____
	March	_____	_____	_____	_____	_____
	April	_____	_____	_____	_____	_____
	May	_____	_____	_____	_____	_____
	June	_____	_____	_____	_____	_____
	July	_____	_____	_____	_____	_____
	August	_____	_____	_____	_____	_____
	September	_____	_____	_____	_____	_____
	October	_____	_____	_____	_____	_____
	November	_____	_____	_____	_____	_____
	December	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____

**Technical Report for**

**Rosewood Resources, Inc.**

**Rosewood**

**Accutest Job Number: D50964**

**Sampling Date: 09/25/13**

**Report to:**

**Rosewood Resources, Inc.**  
**1498 US Highway 36**  
**Saint Francis, KS 67756**  
**wmahon@rosewd.com**

**ATTN: Wayne Mahon**

**Total number of pages in report: 20**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



**Scott Heideman**  
**Laboratory Director**

**Client Service contact: Renea Jackson 303-425-6021**

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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## Sample Summary

**Rosewood Resources, Inc.**

**Job No: D50964**

**Rosewood**

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D50964-1	09/25/13	10:00 WM	09/26/13	AQ	Surface Water	ISERNHAGEN 3-23 SWD
D50964-2	09/25/13	10:45 WM	09/26/13	AQ	Surface Water	RRI SWD 21-11

## Summary of Hits

Job Number: D50964  
Account: Rosewood Resources, Inc.  
Project: Rosewood  
Collected: 09/25/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**D50964-1      ISERNHAGEN 3-23 SWD**

TPH-GRO (C6-C10)	1.91	0.20	0.10	mg/l	SW846 8015B
TPH-DRO (C10-C28)	23.4	1.9	1.7	mg/l	SW846-8015B

**D50964-2      RRI SWD 21-11**

TPH-GRO (C6-C10) <sup>a</sup>	0.932	0.20	0.10	mg/l	SW846 8015B
TPH-DRO (C10-C28)	3.30	0.19	0.17	mg/l	SW846-8015B

(a) The pH of the sample was > 2 at time of analysis.

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> ISERNHAGEN 3-23 SWD <b>Lab Sample ID:</b> D50964-1 <b>Matrix:</b> AQ - Surface Water <b>Method:</b> SW846 8015B <b>Project:</b> Rosewood	<b>Date Sampled:</b> 09/25/13 <b>Date Received:</b> 09/26/13 <b>Percent Solids:</b> n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA19710.D	1	09/27/13	EV	n/a	n/a	GGA1105
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.91	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	119%		60-140%		

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> ISERNHAGEN 3-23 SWD	<b>Date Sampled:</b> 09/25/13
<b>Lab Sample ID:</b> D50964-1	<b>Date Received:</b> 09/26/13
<b>Matrix:</b> AQ - Surface Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846-8015B SW846 3510C	
<b>Project:</b> Rosewood	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH013614.D	10	10/02/13	TU	10/01/13	OP8663	GFH720
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	23.4	1.9	1.7	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	62%		20-140%		

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

32  
3

<b>Client Sample ID:</b> RRI SWD 21-11 <b>Lab Sample ID:</b> D50964-2 <b>Matrix:</b> AQ - Surface Water <b>Method:</b> SW846 8015B <b>Project:</b> Rosewood	<b>Date Sampled:</b> 09/25/13 <b>Date Received:</b> 09/26/13 <b>Percent Solids:</b> n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GA19711.D	1	09/27/13	EV	n/a	n/a	GGA1105
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.932	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%		

(a) The pH of the sample was > 2 at time of analysis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

32  
3

<b>Client Sample ID:</b> RRI SWD 21-11 <b>Lab Sample ID:</b> D50964-2 <b>Matrix:</b> AQ - Surface Water <b>Method:</b> SW846-8015B SW846 3510C <b>Project:</b> Rosewood	<b>Date Sampled:</b> 09/25/13 <b>Date Received:</b> 09/26/13 <b>Percent Solids:</b> n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH013616.D	1	10/02/13	TU	10/01/13	OP8663	GFH720
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	3.30	0.19	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	81%		20-140%		

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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**Includes the following where applicable:**

- Chain of Custody

Accutest Laboratories Mountain States  
4036 Youngfield Street Wheat Ridge, Co 80033  
TEL: 303-425-6021 877-737-4521  
FAX: 303-425-6021

FED-EX Tracking # \_\_\_\_\_ Bottle Order Control # \_\_\_\_\_  
Accutest Quote # \_\_\_\_\_ Accutest Job # **D50964**

Client / Reporting Information		Project Information										Requested Analysis ( see TEST CODE sheet)										Matrix Codes								
Company Name <b>Rosewood Resources, Inc.</b>		Project Name																				DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank								
Street Address <b>1498 US HWY 316</b>		Street:																												
City State Zip <b>St. Francis, MS 3877516</b>		Billing Information ( if different from Report to ) Company Name																												
Project Contact <b>Wayne Mahon</b>		Street Address																												
Phone # <b>970-630-6834</b>		City State Zip																				LAB USE ONLY								
E-mail <b>wmahon@rosewood.com</b>		Project #																												
Fax # <b>(782) 332-2870</b>		Client PO#																												
Sampler(s) Name(s) <b>Wayne Mahon</b>		Attention: PO#																												
Phone # <b>970-630-6834</b>		Project Manager																												
Field ID / Point of Collection		Collection										Number of preserved Bottles																		
MEQ(HI) Vial #		Date		Time		Sampled by		Matrix		# of bottles		HCl		Neph		HNO3		H2SO4		NONE		DI Water		METH		ENCORE		Bottle(s)		
1 Isernhagen 3-23 SWD		9-25-13		10:00		wm SW		S		5																		X	01	
2 BBE SWD 21-11		9-25-13		10:45		wm SW		S		5																		X	02	
																													03	
																													gms	

Turnaround Time ( Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information										Comments / Special Instructions									
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day R/ SH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		<input type="checkbox"/> Commercial "A" ( Level 1 ) <input type="checkbox"/> Commercial "B" ( Level 2 ) <input type="checkbox"/> Commercial "B" +Narrative <input type="checkbox"/> FULLT1 ( Level 3-4 )		<input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> PDF																			
Emergency & Rush TJA data available VIA Lublink				Commercial "A" = Results Only Commercial "B" = Results + QC Summary																			

Sample Custody must be documented below each time samples change possession, including courier delivery.											
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
1 <b>Wayne Mahon</b>		9/25/13 (12:00)		1		2				2	
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
3				3		4				4	
Relinquished by:		Date Time:		Received By:		Custody Spill #		Preserved where applicable		Cooler Temp.	
5				5		Fix		X		9:26-13 3.5	

**D50964: Chain of Custody**

Page 1 of 2



# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D50964

Client: ROSEWOOD

Immediate Client Services Action Required: No

Date / Time Received: 9/26/2013 10:00:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project:

Airbill #'s: UPS

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories  
V:(303) 425-6021

4036 Youngfield Street  
F: (303) 425-6854

Wheat Ridge, CO  
www.accutest.com

4.1  
4

## GC Volatiles

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### QC Data Summaries

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#### Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

Job Number: D50964  
Account: ROSRKSS Rosewood Resources, Inc.  
Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1105-MB	GA19705.D	1	09/27/13	EV	n/a	n/a	GGA1105

The QC reported here applies to the following samples:

Method: SW846 8015B

D50964-1, D50964-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	87% 60-140%

# Blank Spike Summary

Job Number: D50964  
 Account: ROSRKSS Rosewood Resources, Inc.  
 Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1105-BS	GA19706.D	1	09/27/13	EV	n/a	n/a	GGA1105

The QC reported here applies to the following samples:

Method: SW846 8015B

D50964-1, D50964-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	2.14	97	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	102%	60-140%

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D50964  
 Account: ROSRKSS Rosewood Resources, Inc.  
 Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D50948-1MS	GA19708.D	1	09/27/13	EV	n/a	n/a	GGA1105
D50948-1MSD	GA19709.D	1	09/27/13	EV	n/a	n/a	GGA1105
D50948-1	GA19707.D	1	09/27/13	EV	n/a	n/a	GGA1105

The QC reported here applies to the following samples:

Method: SW846 8015B

D50964-1, D50964-2

CAS No.	Compound	D50948-1 mg/l	Spike Q mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	2.2	2.00	91	1.96	89	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D50948-1	Limits
120-82-1	1,2,4-Trichlorobenzene	93%	99%	89%	60-140%

\* = Outside of Control Limits.

5.3.1  
 5

## GC Semi-volatiles

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### QC Data Summaries

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#### Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

Job Number: D50964  
Account: ROSRKSS Rosewood Resources, Inc.  
Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8663-MB	FH013600.D	1	10/02/13	TU	10/01/13	OP8663	GFH720

The QC reported here applies to the following samples:

Method: SW846-8015B

D50964-1, D50964-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.20	0.18	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	45% 20-140%

# Blank Spike Summary

Job Number: D50964  
Account: ROSRKSS Rosewood Resources, Inc.  
Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8663-BS	FH013602.D	1	10/02/13	TU	10/01/13	OP8663	GFH720

The QC reported here applies to the following samples:

Method: SW846-8015B

D50964-1, D50964-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	20	11.2	56	36-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	70%	20-140%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D50964  
 Account: ROSRKSS Rosewood Resources, Inc.  
 Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8663-MS	FH013604.D	1	10/02/13	TU	10/01/13	OP8663	GFH720
OP8663-MSD	FH013606.D	1	10/02/13	TU	10/01/13	OP8663	GFH720
D48570-28	FH013608.D	1	10/02/13	TU	10/01/13	OP8663	GFH720

The QC reported here applies to the following samples:

Method: SW846-8015B

D50964-1, D50964-2

CAS No.	Compound	D48570-28 mg/l	Spike Q mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	20	11.0	55	13.6	68	21	28-140/30

CAS No.	Surrogate Recoveries	MS	MSD	D48570-28	Limits
84-15-1	o-Terphenyl	64%	78%	74%	20-140%

\* = Outside of Control Limits.