



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 | _____ | _____ | _____ | _____ | _____ |
| | TOTAL | _____ | _____ | _____ | _____ | _____ |

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)

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1

2

3

4

5

6



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 |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

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) ^a | 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

Report of Analysis

Report of Analysis

3.1
3

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

| 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

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

| 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

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3

| | |
|--|--------------------------------|
| Client Sample ID: RRI SWD 21-11 | Date Sampled: 09/25/13 |
| Lab Sample ID: D50964-2 | Date Received: 09/26/13 |
| Matrix: AQ - Surface Water | Percent Solids: n/a |
| Method: SW846 8015B | |
| Project: Rosewood | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 ^a | 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

| | |
|---|---|
| Client Sample ID: RRI SWD 21-11 Lab Sample ID: D50964-2 Matrix: AQ - Surface Water Method: SW846-8015B SW846 3510C Project: Rosewood | Date Sampled: 09/25/13 Date Received: 09/26/13 Percent Solids: n/a |
|---|---|

| 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

Custody Documents and Other Forms

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 Rosewood Resources, Inc. | | 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 1498 US HWY 316 | | Street: | | | | | | | | | | | | | | | | | | | | |
| City State Zip St. Francis, MS 3877516 | | Billing Information (if different from Report to) | | | | | | | | | | | | | | | | | | | | |
| Project Contact Wayne Mahon | | Company Name | | | | | | | | | | | | | | | | | | | | |
| Phone # 970-630-6834 | | Street Address | | | | | | | | | | | | | | | | | | | | |
| E-mail wmahon@rosewood.com | | City State Zip | | | | | | | | | | | | | | | | | | | | |
| Project PO# | | Attention: | | | | | | | | | | | | | | | | | | | | |
| Client PO# | | PO# | | | | | | | | | | | | | | | | | | | | |
| Sampler(s) Name(s) | | Collection | | | | | | | | | | | | | | | | | | | | |
| Phone # 970-630-6834 | | Date Time | | | | | | | | | | | | | | | | | | | | |
| Project Manager Wayne Mahon | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
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| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |
| | | Sampled by | | | | | | | | | | | | | | | | | | | | |
| | | Matrix | | | | | | | | | | | | | | | | | | | | |
| | | # of bottles | | | | | | | | | | | | | | | | | | | | |
| | | MEQ(HI) Vial # | | | | | | | | | | | | | | | | | | | | |
| | | Date Time | | | | | | | | | | | | | | | | | | | | |

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 or N</u> | | <u>Y or 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. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or 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 or 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 or 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 or 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 or 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

4.1
4

GC Volatiles

5

QC Data Summaries

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

QC Data Summaries

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% |

6.1.1
6

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.