



October 27, 2015

Mr. Stan Spencer
Colorado Oil & Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203
Tel. (303) 894-2100 x5116

via e-mail: stan.spencer@state.co.us

**RE: Whiting Petroleum Corporation
Site Closure – Boies C28P-P3 Reserve Pits
API No: 05-103-11064 (Facility No: 335879)
Rio Blanco County, Colorado**

Dear Mr. Spencer:

Whiting Petroleum Corporation (Whiting) has prepared this cover letter to inform the Colorado Oil & Gas Conservation Commission (COGCC) that remediation is complete in regards to the Whiting reserve pit located at Boies C 28P-P3 in Rio Blanco County, Colorado. Whiting is requesting Site Closure based on analytical results for confirmation samples collected after impacted reserve pit soils were remediated in June and July, 2015.

Soil from pit was treated (**Figure 1**). A Screen Machine 621T (Shredder) with an internal spray system delivering hydrogen peroxide for the purpose of chemical oxidation was used to accomplish the soil remediation. Once remediation was completed, confirmation soil samples were collected from the sidewalls and floor of the pit, in addition to the treated soils. Analytical results of all treated soil met the criteria of COGCC Table 910-1.

Laboratory analytical results and tables are provided as an attachment to this report in addition to the completed Form 27. In total, 2520 cubic yards were treated from the pit at the site.

If you have questions or comments regarding Site Closure or if we can be of further assistance, please do not hesitate to contact me at (303) 390-1340.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jed Smith', with a stylized flourish at the end.

Jed Smith
Environmental Professional III
Whiting Petroleum Corporation

Attachments:

Form 27 – 05-103-11064 Boies C-28P-P3 – Sundry Notice 400720952_approved
Tables – Summary of Soil Analytical Results
Figure – Sample Location Map
Laboratory Analytical Data Report and Chain of Custody

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

Spill Complaint
Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

| | |
|---|-----------------------------------|
| OGCC Operator Number: _____ | Contact Name and Telephone: _____ |
| Name of Operator: _____ | _____ |
| Address: _____ | No: _____ |
| City: _____ State: _____ Zip: _____ | Fax: _____ |
| API Number: _____ | County: _____ |
| Facility Name: _____ | Facility Number: _____ |
| Well Name: _____ | Well Number: _____ |
| Location: (QtrQtr, Sec, Twp, Rng, Meridian): _____ Latitude: _____ Longitude: _____ | |

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): _____

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): _____

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

| Impacted Media (check): | Extent of Impact: | How Determined: |
|-------------------------|-------------------|-----------------|
| Soils | _____ | _____ |
| Vegetation | _____ | _____ |
| Groundwater | _____ | _____ |
| Surface Water | _____ | _____ |

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Describe how source is to be removed:

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater is not known to be impacted.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Treated soils were reused and backfilled to grade. Any further revegetation activities will be performed by Whiting Oil and Gas Corporation.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☐ N If yes, describe:

Remediation of soils is complete. Confirmation soil samples were collected from the sidewalls and floor of the pits in addition to treated soils returned to the pits. None of the final confirmation soil samples contained analyte concentrations in excess of Table 910-1. Laboratory analytical results are provided as an attachment to this Form 27. 2520 cubic yards were treated from the pit at the site.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Material was treated and reused on site.

IMPLEMENTATION SCHEDULE

| | | |
|---|---|--|
| Date Site Investigation Began: <u>11-2013</u> | Date Site Investigation Completed: <u>11-2013</u> | Date Remediation Plan Submitted: <u>7-2014</u> |
| Remediation Start Date: <u>6/15/2015</u> | Anticipated Completion Date: <u>7/16/2015</u> | Actual Completion Date: <u>7/16/2015</u> |

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Jed Smith

Signed: _____

Title: Environmental Professional III

Date: 11/3/15

OGCC Approved: _____ Title: _____ Date: _____

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



| | | | |
|--------------------------------------|----|----|----|
| DE | ET | OE | ES |
| Document Number: 400720952 | | | |
| Date Received: 10/30/2014 | | | |

SUNDRY NOTICE

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

OGCC Operator Number: 96155 Contact Name Jeanette Liang
Name of Operator: WHITING OIL & GAS CORPORATION Phone: (303) 802-8290
Address: 1700 BROADWAY STE 2300 Fax: (303) 357-4006
City: DENVER State: CO Zip: 80290 Email: jeanette.liang@whiting.com

Complete the Attachment
Checklist

OP OGCC

API Number : 05- 103 11064 00 OGCC Facility ID Number: 291759
Well/Facility Name: BOIES Well/Facility Number: C-28P-P3
Location QtrQtr: SESE Section: 28 Township: 2S Range: 98W Meridian: 6
County: RIO BLANCO Field Name: SULPHUR CREEK
Federal, Indian or State Lease Number: _____

| | | |
|---------------------|--|--|
| Survey Plat | | |
| Directional Survey | | |
| Srvc Eqpmt Diagram | | |
| Technical Info Page | | |
| Other | | |

CHANGE OF LOCATION OR AS BUILT GPS REPORT

☐ Change of Location * ☐ As-Built GPS Location Report ☐ As-Built GPS Location Report with Survey

* Well location change requires new plat. A substantive surface location change may require new Form 2A.

SURFACE LOCATION GPS DATA Data must be provided for Change of Surface Location and As Built Reports.

Latitude _____ PDOP Reading _____ Date of Measurement _____
Longitude _____ GPS Instrument Operator's Name _____

LOCATION CHANGE (all measurements in Feet)

Well will be: _____ (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

Change of **Surface** Footage **To** Exterior Section Lines:

Current **Surface** Location **From** QtrQtr SESE Sec 28

New **Surface** Location **To** QtrQtr _____ Sec _____

Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

Current **Top of Productive Zone** Location **From** Sec 28

New **Top of Productive Zone** Location **To** Sec _____

Change of **Bottomhole** Footage **From** Exterior Section Lines:

Change of **Bottomhole** Footage **To** Exterior Section Lines:

Current **Bottomhole** Location Sec 28 Twp 2S

New **Bottomhole** Location Sec _____ Twp _____

Is location in High Density Area? _____

Distance, in feet, to nearest building _____, public road: _____, above ground utility: _____, railroad: _____,

property line: _____, lease line: _____, well in same formation: _____

Ground Elevation _____ feet Surface owner consultation date _____

| FNL/FSL | | FEL/FWL | |
|---------------|------------------|-------------------|------------|
| <u>257</u> | <u>FSL</u> | <u>922</u> | <u>FEL</u> |
| _____ | _____ | _____ | _____ |
| Twp <u>2S</u> | Range <u>98W</u> | Meridian <u>6</u> | |
| Twp _____ | Range _____ | Meridian _____ | |
| <u>514</u> | <u>FSL</u> | <u>564</u> | <u>FEL</u> |
| _____ | _____ | _____ | _____ |
| Twp <u>2S</u> | Range <u>98W</u> | | |
| Twp _____ | Range _____ | | |
| <u>514</u> | <u>FSL</u> | <u>564</u> | <u>FEL</u> |
| _____ | _____ | _____ | _____ |
| Twp <u>2S</u> | Range <u>98W</u> | | |
| Twp _____ | Range _____ | | |

**

**

** attach deviated drilling plan

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

| <u>Objective Formation</u> | <u>Formation Code</u> | <u>Spacing Order Number</u> | <u>Unit Acreage</u> | <u>Unit Configuration</u> |
|----------------------------|-----------------------|-----------------------------|---------------------|---------------------------|
| | | | | |

OTHER CHANGES

☐ **REMOVE FROM SURFACE BOND** Signed surface use agreement is a required attachment

☐ **CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER**

From: Name BOIES Number C-28P-P3 Effective Date: _____

To: Name _____ Number _____

☐ **ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.**

☐ WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number _____ has not been drilled.

☐ PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number _____ has not been constructed (Permitted and constructed pit requires closure per Rule 905)

☐ CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number _____ has not been constructed (Constructed facility requires closure per Rule 908)

OIL & GAS LOCATION ID Number: _____

☐ Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

☐ Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.

☐ **REQUEST FOR CONFIDENTIAL STATUS**

☐ **DIGITAL WELL LOG UPLOAD**

☐ **DOCUMENTS SUBMITTED** Purpose of Submission: _____

RECLAMATION**INTERIM RECLAMATION**

☐ Interim Reclamation will commence approximately _____

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

☐ Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

Field inspection will be conducted to document Rule 1003.e. compliance

FINAL RECLAMATION

☐ Final Reclamation will commence approximately _____

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

☐ Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

Field inspection will be conducted to document Rule 1004.c. compliance

Comments:

ENGINEERING AND ENVIRONMENTAL WORK

☐ NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned _____ Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT _____

☐ SPUD DATE: _____

TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK

Details of work must be described in full in the COMMENTS below or provided as an attachment.

☒ NOTICE OF INTENT Approximate Start Date 11/04/2014

☐ REPORT OF WORK DONE Date Work Completed _____

- | | | |
|--|---|--|
| <input type="checkbox"/> Intent to Recomplete (Form 2 also required) | <input type="checkbox"/> Request to Vent or Flare | <input type="checkbox"/> E&P Waste Mangement Plan |
| <input type="checkbox"/> Change Drilling Plan | <input type="checkbox"/> Repair Well | <input type="checkbox"/> Beneficial Reuse of E&P Waste |
| <input type="checkbox"/> Gross Interval Change | <input type="checkbox"/> Rule 502 variance requested. Must provide detailed info regarding request. | |
| <input type="checkbox"/> Other _____ | <input checked="" type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases | |

COMMENTS:

REM#8581.

The approved Form 27 proposed that samples be collected for TPHGRO/DRO/ORO, BTEX, RCRA 8 Metals, pH, SAR, and EC from untreated stockpiles, treated stockpiles, pit walls and pit floor. Whiting requests modifying the following sampling requirements:

1. Collection of pH, SAR, and EC samples from only the upper three feet (root zone) of material that is removed from each pit. The upper three feet of material is primarily topsoil that was used to cap the impacted material in the pits and will be removed, stockpiled and replaced at the surface of the pit.
2. Removal of RCRA 8 Metals from the sample list. Previous analytical results indicate metals concentrations similar to background levels. Backfilling of the pit is proposed to be based on meeting the BTEX and TPH levels listed in Table 910-1.

CASING AND CEMENTING CHANGES

| Casing Type | Size | Of | / | Hole | Size | Of | / | Casing | Wt/Ft | Csg/LinTop | Setting Depth | Sacks of Cement | Cement Bottom | Cement Top |
|-------------|------|----|---|------|------|----|---|--------|-------|------------|---------------|-----------------|---------------|------------|
| | | | | | | | | | | | | | | |

H2S REPORTING

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: _____ in ppm (parts per million) Date of Measurement or Sample Collection _____

Description of Sample Point:

Absolute Open Flow Potential _____ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

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

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: _____

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: _____

COMMENTS:

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

Best Management Practices

No BMP/COA Type

Description

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

Operator Comments:

REM#8581, Attention: Stan Spencer

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Jeanette Liang
Title: Environmental Professional Email: jeanette.liang@whiting.com Date: 10/30/2014

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Spencer, Stan Date: 10/31/2014

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

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

General Comments

User Group

Comment

Comment Date

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

Total: 0 comment(s)

Attachment Check List

Att Doc Num

Name

400720952 FORM 4 SUBMITTED

Total Attach: 1 Files

Table 1
 Pad Background
 Summary of Soil Analytical Results
 Whiting Petroleum Company
 Whiting Petroleum Colorado Pits C 28P-P3
 County of Rio Blanco, Colorado

| | | Location | Background 1 | Background 2 | Background 3 | Background 4 |
|-------------------------|---------------------|----------------------------------|--------------|--------------|--------------|--------------|
| | | Location Description | | | | |
| | | Date of Sample | 8/18/2015 | | | |
| | | Table 910-1 Concentration Levels | | | | |
| Unit | Unit of Measurement | Soil Compounds | CAP-28P | BG1-28P | BG2-28P | BG3-28P |
| Electrical Conductivity | mmhos | <4 mmhos/cm or 2x background | 0.179 | 0.337 | 0.172 | 0.177 |
| pH | s.u. | 6 - 9 | 8.66 | 9.15 | 8.44 | 7.68 |
| SAR | Ratio | <12 | 3.12 | 6.91 | 1.69 | <1.00 |

Table 2
Summary of Soil Analytical Results
Whiting Petroleum Company
Whiting Petroleum Colorado Pits C 28P-P3
County of Rio Blanco, Colorado

| | | Location | | | | | | | | | | | |
|--------------|------------------------|-------------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Location Description | | | | | | | | | | | |
| | | Date of Sample | 6/10/2015 | | | | | | | | | | |
| | | Table 910-1 Concentration Levels | | | | | | | | | | | |
| Unit | Unit of Measurement | Soil Compounds | E1A | E2B | E2A | E2B | S1A | S1B | S2A | S2B | S3A | S4A | S4B |
| Benzene | mg/kg | 0.17 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Toluene | mg/kg | 85 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Ethylbenzene | mg/kg | 100 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Xylene | mg/kg | 175 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| TPH-GRO | mg/kg | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 |
| TPH DRO | mg/kg | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |
| TPH | mg/kg | 500 mg/kg | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 |

BTEX analysis by EPA Method 8260B

TPH Analysis by 8015 Method

Table 2
Summary of Soil Analytical Results
Whiting Petroleum Company
Whiting Petroleum Colorado Pits C 28P-P3
County of Rio Blanco, Colorado

| | | Location | | | | | | | | | | | | |
|-----------------------------------|------------------------|-------------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Location Description | | | | | | | | | | | | |
| | | Date of Sample | 6/10/2015 | | | | | | | | | | | |
| | | Table 910-1 Concentration Levels | | | | | | | | | | | | |
| Unit | Unit of Measurement | Soil Compounds | W1A | W1B | W2A | W2B | N1A | N1B | N2A | N2B | N3A | N3B | N4A | N4B |
| Benzene | mg/kg | 0.17 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Toluene | mg/kg | 85 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Ethylbenzene | mg/kg | 100 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Xylene | mg/kg | 175 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| TPH-GRO | mg/kg | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 |
| TPH DRO | mg/kg | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |
| TPH | mg/kg | 500 mg/kg | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 |
| BTEX analysis by EPA Method 8260B | | | | | | | | | | | | | | |
| TPH Analysis by 8015 Method | | | | | | | | | | | | | | |

Table 2
Summary of Soil Analytical Results
Whiting Petroleum Company
Whiting Petroleum Colorado Pits C 28P-P3
County of Rio Blanco, Colorado

| | | Location | | | | | | | | | | | | | | |
|--------------|------------------------|-------------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|--|
| | | Location Description | | | | | | | | | | | | | | |
| | | Date of Sample | 6/10/2015 | | | | | | | | | 7/3/2015 | | | | |
| | | Table 910-1 Concentration Levels | | | | | | | | | | | | | | |
| Unit | Unit of Measurement | Soil Compounds | EXB1 | EXB2 | EXB3 | EXB4 | EXB5 | EXB5 | EXB6 | EXB7 | OB-1 | OB-2 | OB-3 | OB-4 | OB-5 | |
| Benzene | mg/kg | 0.17 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | |
| Toluene | mg/kg | 85 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | |
| Ethylbenzene | mg/kg | 100 mg/kg | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | |
| Xylene | mg/kg | 175 mg/kg | <0.0200 | <0.0200 | 0.0318 | <0.0200 | 0.0732 | 0.0403 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | |
| TPH-GRO | mg/kg | | <4.00 | <4.00 | <4.00 | <4.00 | 6.16 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | |
| TPH DRO | mg/kg | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 143 | <50.0 | <50.0 | |
| TPH | mg/kg | 500 mg/kg | <54.0 | <54.0 | <54.0 | <54.0 | <54.0 | <56.16 | <54.0 | <54.0 | <54.0 | <54.0 | <147 | <54.0 | <54.0 | |

BTEX analysis by EPA Method 8260B

TPH Analysis by 8015 Method

Table 3
Summary of StockPile and Treated Soil Analytical Results
Whiting Petroleum Company
Whiting Petroleum Colorado Pits C 28P-P3
County of Rio Blanco, Colorado

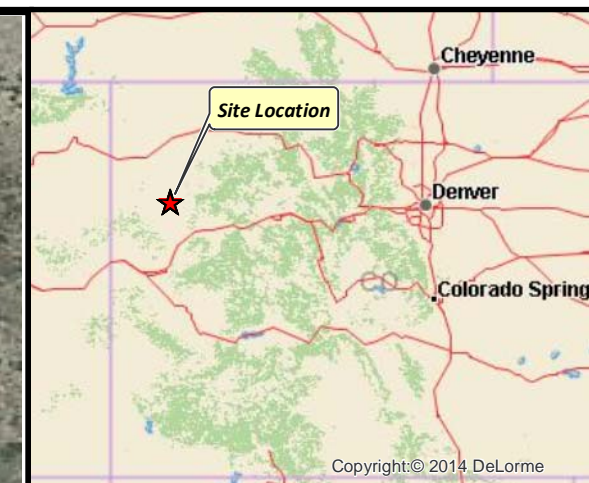
| | | Location | | | | | | | | | |
|--------------|---------------------|----------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Location Description | | | | | | | | | |
| | | Date of Sample | 7/3/2015 | | | | | | | | |
| | | Table 910-1 Concentration Levels | | | | | | | | | |
| Unit | Unit of Measurement | Soil Compounds | SP-1 | SP-2 | SP-3 | TSP-1 | TSP-2 | TSP-3 | TSP-4 | TSP-5 | TSP-6 |
| Benzene | mg/kg | 0.17 mg/kg | <0.100 | <0.0400 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Toluene | mg/kg | 85 mg/kg | 0.142 | <0.0400 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Ethylbenzene | mg/kg | 100 mg/kg | <0.100 | <0.0400 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 |
| Xylene | mg/kg | 175 mg/kg | 5.69 | 0.949 | 0.664 | <0.0200 | 0.0604 | 0.101 | <0.0200 | 0.0796 | 0.0304 |
| TPH-GRO | mg/kg | | 279 | 77.1 | 48 | <4.00 | <4.00 | 16.7 | 5.54 | <4.00 | <4.00 |
| TPH DRO | mg/kg | | 279 | 268 | 240 | 66.6 | 105 | 65.9 | <50.0 | <50.0 | <50.0 |
| TPH | mg/kg | 500 mg/kg | 558 | 345 | 288 | 67 | 105 | 83 | <55.54 | <54.0 | <54.0 |

BTEX analysis by EPA Method 8260B

TPH Analysis by 8015 Method

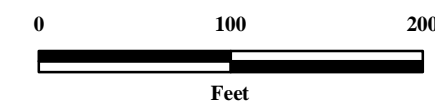
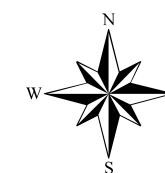
SP: Stockpile Prior to Treatment

TSP: Treated Stockpile



Legend

- Sample Location
- ⊕ Whiting Well Location




 Apex Companies, LLC
4608 S Garnett Road,
Suite 100
Tulsa, OK 74146

FIGURE 1 July Closure Activities



Whiting Petroleum Corporation
Federal C 28P-P3
Form 27 Map
Sec 3, T2S R98W

from USGS Quadrangle Rock School, CO
Ground Condition Depicted June 2013
Digital Data Courtesy ESRI Online

Summary Report

Mike Holder
Apex Companies, LLC-OKC
2212 NW 50th Street
Suite 241 C
Oklahoma City, OK 73112

Report Date: July 10, 2015

Work Order: 15070821



Project Location: Rifle, Colorado
Project Name: Whiting Boies C-28P

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 397903 | E1A | soil | 2015-07-06 | 11:20 | 2015-07-08 |
| 397904 | E1B | soil | 2015-07-06 | 11:23 | 2015-07-08 |
| 397905 | E2A | soil | 2015-07-06 | 11:25 | 2015-07-08 |
| 397906 | E2B | soil | 2015-07-06 | 11:27 | 2015-07-08 |
| 397907 | S1A | soil | 2015-07-06 | 11:30 | 2015-07-08 |
| 397908 | S1B | soil | 2015-07-06 | 11:29 | 2015-07-08 |
| 397909 | S2A | soil | 2015-07-06 | 11:33 | 2015-07-08 |
| 397910 | S2B | soil | 2015-07-06 | 11:32 | 2015-07-08 |
| 397911 | S3A | soil | 2015-07-06 | 11:37 | 2015-07-08 |
| 397912 | S3B | soil | 2015-07-06 | 11:38 | 2015-07-08 |
| 397913 | S4A | soil | 2015-07-06 | 11:41 | 2015-07-08 |
| 397914 | S4B | soil | 2015-07-06 | 11:42 | 2015-07-08 |
| 397915 | W1A | soil | 2015-07-06 | 11:43 | 2015-07-08 |
| 397916 | W1B | soil | 2015-07-06 | 11:44 | 2015-07-08 |
| 397917 | W2A | soil | 2015-07-06 | 11:47 | 2015-07-08 |
| 397918 | W2B | soil | 2015-07-06 | 11:46 | 2015-07-08 |
| 397919 | N1A | soil | 2015-07-06 | 11:49 | 2015-07-08 |
| 397920 | N1B | soil | 2015-07-06 | 11:50 | 2015-07-08 |
| 397921 | N2A | soil | 2015-07-06 | 11:52 | 2015-07-08 |
| 397922 | N2B | soil | 2015-07-06 | 11:51 | 2015-07-08 |
| 397923 | N3A | soil | 2015-07-06 | 11:55 | 2015-07-08 |
| 397924 | N3B | soil | 2015-07-06 | 11:54 | 2015-07-08 |
| 397925 | N4A | soil | 2015-07-06 | 11:59 | 2015-07-08 |
| 397926 | N4B | soil | 2015-07-06 | 12:00 | 2015-07-08 |
| 397927 | EXB1 | soil | 2015-07-06 | 12:03 | 2015-07-08 |
| 397928 | EXB2 | soil | 2015-07-06 | 12:06 | 2015-07-08 |
| 397929 | EXB3 | soil | 2015-07-06 | 12:08 | 2015-07-08 |
| 397930 | EXB4 | soil | 2015-07-06 | 12:07 | 2015-07-08 |
| 397931 | EXB5 | soil | 2015-07-06 | 12:12 | 2015-07-08 |
| 397932 | EXB6 | soil | 2015-07-06 | 12:13 | 2015-07-08 |

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 397933 | EXB7 | soil | 2015-07-06 | 12:15 | 2015-07-08 |
| 397934 | EXB8 | soil | 2015-07-06 | 12:16 | 2015-07-08 |

| Sample - Field Code | BTEX | | | | MTBE MTBE (mg/Kg) | TPH DRO - NEW DRO (mg/Kg) | TPH GRO GRO (mg/Kg) |
|---------------------|--------------------|--------------------|-------------------------|-------------------|-------------------------|---------------------------------|---------------------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | | | |
| 397903 - E1A | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397904 - E1B | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397905 - E2A | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397906 - E2B | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397907 - S1A | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397908 - S1B | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397909 - S2A | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397910 - S2B | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397911 - S3A | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397912 - S3B | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397913 - S4A | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397914 - S4B | <0.0200 | <0.0200 | <0.0200 | <0.0200 | | <50.0 | <4.00 Qr |
| 397915 - W1A | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397916 - W1B | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397917 - W2A | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397918 - W2B | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397919 - N1A | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397920 - N1B | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397921 - N2A | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397922 - N2B | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397923 - N3A | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397924 - N3B | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397925 - N4A | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397926 - N4B | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397927 - EXB1 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397928 - EXB2 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397929 - EXB3 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | 0.0318 Qr,Qs | | <50.0 | <4.00 Qr |
| 397930 - EXB4 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397931 - EXB5 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | 0.0732 Qr,Qs | | <50.0 | 6.16 Qr |
| 397932 - EXB6 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | 0.0403 Qr,Qs | | <50.0 | <4.00 Qr |
| 397933 - EXB7 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |
| 397934 - EXB8 | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | <0.0200 Qr,Qs | | <50.0 | <4.00 Qr |



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E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Mike Holder
Apex Companies, LLC-OKC
2212 NW 50th Street
Suite 241 C
Oklahoma City, OK, 73112

Report Date: July 10, 2015

Work Order: 15070821



Project Location: Rifle, Colorado
Project Name: Whiting Boies C-28P
Project Number: Whiting Boies C-28P

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

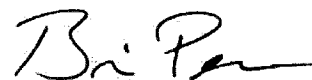
| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 397903 | E1A | soil | 2015-07-06 | 11:20 | 2015-07-08 |
| 397904 | E1B | soil | 2015-07-06 | 11:23 | 2015-07-08 |
| 397905 | E2A | soil | 2015-07-06 | 11:25 | 2015-07-08 |
| 397906 | E2B | soil | 2015-07-06 | 11:27 | 2015-07-08 |
| 397907 | S1A | soil | 2015-07-06 | 11:30 | 2015-07-08 |
| 397908 | S1B | soil | 2015-07-06 | 11:29 | 2015-07-08 |
| 397909 | S2A | soil | 2015-07-06 | 11:33 | 2015-07-08 |
| 397910 | S2B | soil | 2015-07-06 | 11:32 | 2015-07-08 |
| 397911 | S3A | soil | 2015-07-06 | 11:37 | 2015-07-08 |
| 397912 | S3B | soil | 2015-07-06 | 11:38 | 2015-07-08 |
| 397913 | S4A | soil | 2015-07-06 | 11:41 | 2015-07-08 |
| 397914 | S4B | soil | 2015-07-06 | 11:42 | 2015-07-08 |
| 397915 | W1A | soil | 2015-07-06 | 11:43 | 2015-07-08 |
| 397916 | W1B | soil | 2015-07-06 | 11:44 | 2015-07-08 |
| 397917 | W2A | soil | 2015-07-06 | 11:47 | 2015-07-08 |
| 397918 | W2B | soil | 2015-07-06 | 11:46 | 2015-07-08 |
| 397919 | N1A | soil | 2015-07-06 | 11:49 | 2015-07-08 |

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 397920 | N1B | soil | 2015-07-06 | 11:50 | 2015-07-08 |
| 397921 | N2A | soil | 2015-07-06 | 11:52 | 2015-07-08 |
| 397922 | N2B | soil | 2015-07-06 | 11:51 | 2015-07-08 |
| 397923 | N3A | soil | 2015-07-06 | 11:55 | 2015-07-08 |
| 397924 | N3B | soil | 2015-07-06 | 11:54 | 2015-07-08 |
| 397925 | N4A | soil | 2015-07-06 | 11:59 | 2015-07-08 |
| 397926 | N4B | soil | 2015-07-06 | 12:00 | 2015-07-08 |
| 397927 | EXB1 | soil | 2015-07-06 | 12:03 | 2015-07-08 |
| 397928 | EXB2 | soil | 2015-07-06 | 12:06 | 2015-07-08 |
| 397929 | EXB3 | soil | 2015-07-06 | 12:08 | 2015-07-08 |
| 397930 | EXB4 | soil | 2015-07-06 | 12:07 | 2015-07-08 |
| 397931 | EXB5 | soil | 2015-07-06 | 12:12 | 2015-07-08 |
| 397932 | EXB6 | soil | 2015-07-06 | 12:13 | 2015-07-08 |
| 397933 | EXB7 | soil | 2015-07-06 | 12:15 | 2015-07-08 |
| 397934 | EXB8 | soil | 2015-07-06 | 12:16 | 2015-07-08 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 62 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

| | |
|----------------|---|
| Case Narrative | 5 |
|----------------|---|

| | |
|-------------------|---|
| Analytical Report | 6 |
|-------------------|---|

| | |
|----------------------|----|
| Sample 397903 (E1A) | 6 |
| Sample 397904 (E1B) | 7 |
| Sample 397905 (E2A) | 8 |
| Sample 397906 (E2B) | 9 |
| Sample 397907 (S1A) | 10 |
| Sample 397908 (S1B) | 11 |
| Sample 397909 (S2A) | 13 |
| Sample 397910 (S2B) | 14 |
| Sample 397911 (S3A) | 15 |
| Sample 397912 (S3B) | 16 |
| Sample 397913 (S4A) | 17 |
| Sample 397914 (S4B) | 19 |
| Sample 397915 (W1A) | 20 |
| Sample 397916 (W1B) | 21 |
| Sample 397917 (W2A) | 22 |
| Sample 397918 (W2B) | 23 |
| Sample 397919 (N1A) | 25 |
| Sample 397920 (N1B) | 26 |
| Sample 397921 (N2A) | 27 |
| Sample 397922 (N2B) | 28 |
| Sample 397923 (N3A) | 29 |
| Sample 397924 (N3B) | 31 |
| Sample 397925 (N4A) | 32 |
| Sample 397926 (N4B) | 33 |
| Sample 397927 (EXB1) | 34 |
| Sample 397928 (EXB2) | 35 |
| Sample 397929 (EXB3) | 37 |
| Sample 397930 (EXB4) | 38 |
| Sample 397931 (EXB5) | 39 |
| Sample 397932 (EXB6) | 40 |
| Sample 397933 (EXB7) | 41 |
| Sample 397934 (EXB8) | 43 |

| | |
|---------------|----|
| Method Blanks | 45 |
|---------------|----|

| | |
|------------------------------------|----|
| QC Batch 122981 - Method Blank (1) | 45 |
| QC Batch 122982 - Method Blank (1) | 45 |
| QC Batch 122983 - Method Blank (1) | 45 |
| QC Batch 122984 - Method Blank (1) | 46 |
| QC Batch 122986 - Method Blank (1) | 46 |
| QC Batch 122987 - Method Blank (1) | 46 |

| | |
|---------------------------|----|
| Laboratory Control Spikes | 48 |
|---------------------------|----|

| | |
|---------------------------|----|
| QC Batch 122981 - LCS (1) | 48 |
|---------------------------|----|

| | |
|-------------------------------------|----|
| QC Batch 122982 - LCS (1) | 48 |
| QC Batch 122983 - LCS (1) | 49 |
| QC Batch 122984 - LCS (1) | 49 |
| QC Batch 122986 - LCS (1) | 50 |
| QC Batch 122987 - LCS (1) | 50 |

| | |
|----------------------|-----------|
| Matrix Spikes | 52 |
|----------------------|-----------|

| | |
|------------------------------------|----|
| QC Batch 122981 - MS (1) | 52 |
| QC Batch 122982 - MS (1) | 52 |
| QC Batch 122983 - MS (1) | 53 |
| QC Batch 122984 - MS (1) | 53 |
| QC Batch 122986 - MS (1) | 54 |
| QC Batch 122987 - MS (1) | 54 |

| | |
|------------------------------|-----------|
| Calibration Standards | 56 |
|------------------------------|-----------|

| | |
|-------------------------------------|----|
| QC Batch 122981 - CCV (1) | 56 |
| QC Batch 122981 - CCV (2) | 56 |
| QC Batch 122981 - CCV (3) | 56 |
| QC Batch 122982 - CCV (1) | 56 |
| QC Batch 122982 - CCV (2) | 57 |
| QC Batch 122982 - CCV (3) | 57 |
| QC Batch 122983 - CCV (1) | 57 |
| QC Batch 122983 - CCV (2) | 57 |
| QC Batch 122983 - CCV (3) | 58 |
| QC Batch 122984 - CCV (1) | 58 |
| QC Batch 122984 - CCV (2) | 58 |
| QC Batch 122984 - CCV (3) | 59 |
| QC Batch 122986 - CCV (1) | 59 |
| QC Batch 122986 - CCV (2) | 59 |
| QC Batch 122987 - CCV (1) | 59 |
| QC Batch 122987 - CCV (2) | 59 |

| | |
|-----------------|-----------|
| Appendix | 61 |
|-----------------|-----------|

| | |
|-------------------------------------|----|
| Report Definitions | 61 |
| Laboratory Certifications | 61 |
| Standard Flags | 61 |
| Attachments | 62 |

Case Narrative

Samples for project Whiting Boies C-28P were received by TraceAnalysis, Inc. on 2015-07-08 and assigned to work order 15070821. Samples for work order 15070821 were received intact at a temperature of 5.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 104013 | 2015-07-08 at 15:57 | 122981 | 2015-07-08 at 15:57 |
| BTEX | S 8021B | 104014 | 2015-07-08 at 15:57 | 122983 | 2015-07-08 at 15:57 |
| TPH DRO - NEW | S 8015 D | 104015 | 2015-07-09 at 08:29 | 122986 | 2015-07-09 at 08:54 |
| TPH DRO - NEW | S 8015 D | 104016 | 2015-07-09 at 08:31 | 122987 | 2015-07-09 at 08:57 |
| TPH GRO | S 8015 D | 104013 | 2015-07-08 at 15:57 | 122982 | 2015-07-08 at 15:57 |
| TPH GRO | S 8015 D | 104014 | 2015-07-08 at 15:57 | 122984 | 2015-07-08 at 15:57 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15070821 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 6 of 62
Rifle, Colorado

Analytical Report

Sample: 397903 - E1A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.95 | mg/Kg | 1 | 2.00 | 98 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.08 | mg/Kg | 1 | 2.00 | 104 | 67.9 - 120 |

Sample: 397903 - E1A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 27.5 | mg/Kg | 1 | 25.0 | 110 | 48.9 - 172 |

Sample: 397903 - E1A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 7 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.81 | mg/Kg | 1 | 2.00 | 90 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.81 | mg/Kg | 1 | 2.00 | 90 | 68.4 - 120 |

Sample: 397904 - E1B

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122981

Prep Batch: 104013

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.85 | mg/Kg | 1 | 2.00 | 92 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.95 | mg/Kg | 1 | 2.00 | 98 | 67.9 - 120 |

Sample: 397904 - E1B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 26.5 | mg/Kg | 1 | 25.0 | 106 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 8 of 62
Rifle, Colorado

Sample: 397904 - E1B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | s | 1.71 | mg/Kg | 1 | 2.00 | 86 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.70 | mg/Kg | 1 | 2.00 | 85 | 68.4 - 120 |

Sample: 397905 - E2A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | s | 1.65 | mg/Kg | 1 | 2.00 | 82 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.79 | mg/Kg | 1 | 2.00 | 90 | 67.9 - 120 |

Sample: 397905 - E2A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 9 of 62
Rifle, Colorado

sample 397905 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | | 3 | 26.8 | mg/Kg | 1 | 25.0 | 107 | 48.9 - 172 |

Sample: 397905 - E2A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-------------------|---------|--------------|-------|----------|------|
| GRO | Q _r ,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|--------|------------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.52 mg/Kg | 1 | 2.00 | 76 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.55 mg/Kg | 1 | 2.00 | 78 | 68.4 - 120 |

Sample: 397906 - E2B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 10 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 2.06 | mg/Kg | 1 | 2.00 | 103 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.13 | mg/Kg | 1 | 2.00 | 106 | 67.9 - 120 |

Sample: 397906 - E2B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 26.4 | mg/Kg | 1 | 25.0 | 106 | 48.9 - 172 |

Sample: 397906 - E2B

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122982

Prep Batch: 104013

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.92 | mg/Kg | 1 | 2.00 | 96 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.84 | mg/Kg | 1 | 2.00 | 92 | 68.4 - 120 |

Sample: 397907 - S1A

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122981

Prep Batch: 104013

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 11 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 2.15 | mg/Kg | 1 | 2.00 | 108 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.19 | mg/Kg | 1 | 2.00 | 110 | 67.9 - 120 |

Sample: 397907 - S1A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | 3 | | 26.0 | mg/Kg | 1 | 25.0 | 104 | 48.9 - 172 |

Sample: 397907 - S1A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 2.00 | mg/Kg | 1 | 2.00 | 100 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.90 | mg/Kg | 1 | 2.00 | 95 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 12 of 62
Rifle, Colorado

Sample: 397908 - S1B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.86 | mg/Kg | 1 | 2.00 | 93 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.90 | mg/Kg | 1 | 2.00 | 95 | 67.9 - 120 |

Sample: 397908 - S1B

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 27.2 | mg/Kg | 1 | 25.0 | 109 | 48.9 - 172 |

Sample: 397908 - S1B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 13 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.74 | mg/Kg | 1 | 2.00 | 87 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.66 | mg/Kg | 1 | 2.00 | 83 | 68.4 - 120 |

Sample: 397909 - S2A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.60 | mg/Kg | 1 | 2.00 | 80 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.76 | mg/Kg | 1 | 2.00 | 88 | 67.9 - 120 |

Sample: 397909 - S2A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 26.8 | mg/Kg | 1 | 25.0 | 107 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 14 of 62
Rifle, Colorado

Sample: 397909 - S2A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|------------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 3 | 1.48 mg/Kg | 1 | 2.00 | 74 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.53 mg/Kg | 1 | 2.00 | 76 | 68.4 - 120 |

Sample: 397910 - S2B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.92 | mg/Kg | 1 | 2.00 | 96 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.96 | mg/Kg | 1 | 2.00 | 98 | 67.9 - 120 |

Sample: 397910 - S2B

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 15 of 62
Rifle, Colorado

sample 397910 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | | 3 | 29.2 | mg/Kg | 1 | 25.0 | 117 | 48.9 - 172 |

Sample: 397910 - S2B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.78 | mg/Kg | 1 | 2.00 | 89 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.70 | mg/Kg | 1 | 2.00 | 85 | 68.4 - 120 |

Sample: 397911 - S3A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 16 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.88 | mg/Kg | 1 | 2.00 | 94 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.90 | mg/Kg | 1 | 2.00 | 95 | 67.9 - 120 |

Sample: 397911 - S3A

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 26.8 | mg/Kg | 1 | 25.0 | 107 | 48.9 - 172 |

Sample: 397911 - S3A

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122982

Prep Batch: 104013

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.74 | mg/Kg | 1 | 2.00 | 87 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.64 | mg/Kg | 1 | 2.00 | 82 | 68.4 - 120 |

Sample: 397912 - S3B

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122981

Prep Batch: 104013

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 17 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.94 | mg/Kg | 1 | 2.00 | 97 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.98 | mg/Kg | 1 | 2.00 | 99 | 67.9 - 120 |

Sample: 397912 - S3B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | 3 | | 27.1 | mg/Kg | 1 | 25.0 | 108 | 48.9 - 172 |

Sample: 397912 - S3B

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122982

Prep Batch: 104013

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.78 | mg/Kg | 1 | 2.00 | 89 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 18 of 62
Rifle, Colorado

Sample: 397913 - S4A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 2.21 | mg/Kg | 1 | 2.00 | 110 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.19 | mg/Kg | 1 | 2.00 | 110 | 67.9 - 120 |

Sample: 397913 - S4A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | s | | 26.6 | mg/Kg | 1 | 25.0 | 106 | 48.9 - 172 |

Sample: 397913 - S4A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 19 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 2.05 | mg/Kg | 1 | 2.00 | 102 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.89 | mg/Kg | 1 | 2.00 | 94 | 68.4 - 120 |

Sample: 397914 - S4B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|-----------|-------|----------|--------|
| Benzene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 1.40 | mg/Kg | 1 | 2.00 | 70 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.75 | mg/Kg | 1 | 2.00 | 88 | 67.9 - 120 |

Sample: 397914 - S4B

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | s | 27.2 | mg/Kg | 1 | 25.0 | 109 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 20 of 62
Rifle, Colorado

Sample: 397914 - S4B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|------------|------------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 3 | 1.26 mg/Kg | 1 | 2.00 | 63 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.52 mg/Kg | 1 | 2.00 | 76 | 68.4 - 120 | |

Sample: 397915 - W1A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|------------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.64 mg/Kg | 1 | 2.00 | 82 | 65.6 - 125 | |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.76 mg/Kg | 1 | 2.00 | 88 | 67.9 - 120 | |

Sample: 397915 - W1A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 21 of 62
Rifle, Colorado

sample 397915 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | s | | 26.2 | mg/Kg | 1 | 25.0 | 105 | 48.9 - 172 |

Sample: 397915 - W1A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|------------------------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 | | |
| | | | | | | | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | 3 | 1.54 | mg/Kg | 1 | 2.00 | 77 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.61 | mg/Kg | 1 | 2.00 | 80 | 68.4 - 120 |

Sample: 397916 - W1B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 22 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.70 | mg/Kg | 1 | 2.00 | 85 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.83 | mg/Kg | 1 | 2.00 | 92 | 67.9 - 120 |

Sample: 397916 - W1B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 27.0 | mg/Kg | 1 | 25.0 | 108 | 48.9 - 172 |

Sample: 397916 - W1B

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.58 | mg/Kg | 1 | 2.00 | 79 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.66 | mg/Kg | 1 | 2.00 | 83 | 68.4 - 120 |

Sample: 397917 - W2A

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 23 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-----------|-----------|--------------|-------|----------|--------|
| Benzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.88 | mg/Kg | 1 | 2.00 | 94 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.94 | mg/Kg | 1 | 2.00 | 97 | 67.9 - 120 |

Sample: 397917 - W2A

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 26.9 | mg/Kg | 1 | 25.0 | 108 | 48.9 - 172 |

Sample: 397917 - W2A

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-------|---------|--------------|-------|----------|------|
| GRO | Qr, U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.78 | mg/Kg | 1 | 2.00 | 89 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.76 | mg/Kg | 1 | 2.00 | 88 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 24 of 62
Rifle, Colorado

Sample: 397918 - W2B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.95 | mg/Kg | 1 | 2.00 | 98 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.06 | mg/Kg | 1 | 2.00 | 103 | 67.9 - 120 |

Sample: 397918 - W2B

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 28.1 | mg/Kg | 1 | 25.0 | 112 | 48.9 - 172 |

Sample: 397918 - W2B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 25 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 1.81 | mg/Kg | 1 | 2.00 | 90 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.86 | mg/Kg | 1 | 2.00 | 93 | 68.4 - 120 |

Sample: 397919 - N1A

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-----------|-----------|--------------|-------|----------|--------|
| Benzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 1.95 | mg/Kg | 1 | 2.00 | 98 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.98 | mg/Kg | 1 | 2.00 | 99 | 67.9 - 120 |

Sample: 397919 - N1A

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Js | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | s | 25.9 | mg/Kg | 1 | 25.0 | 104 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 26 of 62
Rifle, Colorado

Sample: 397919 - N1A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.83 | mg/Kg | 1 | 2.00 | 92 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.79 | mg/Kg | 1 | 2.00 | 90 | 68.4 - 120 |

Sample: 397920 - N1B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.82 | mg/Kg | 1 | 2.00 | 91 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.85 | mg/Kg | 1 | 2.00 | 92 | 67.9 - 120 |

Sample: 397920 - N1B

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122986
Prep Batch: 104015

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 27 of 62
Rifle, Colorado

sample 397920 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | | 3 | 26.4 | mg/Kg | 1 | 25.0 | 106 | 48.9 - 172 |

Sample: 397920 - N1B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL | | | | | |
|------------------------------|------|---------|--------|-------|----------|--------|------------------|------------|
| | | | Result | Units | Dilution | RL | | |
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Recovery | |
| | | | | | | Amount | Percent Recovery | Limits |
| | | | | | | | | |
| Trifluorotoluene (TFT) | | 3 | 1.69 | mg/Kg | 1 | 2.00 | 84 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.68 | mg/Kg | 1 | 2.00 | 84 | 68.4 - 120 |

Sample: 397921 - N2A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 28 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.75 | mg/Kg | 1 | 2.00 | 88 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.78 | mg/Kg | 1 | 2.00 | 89 | 67.9 - 120 |

Sample: 397921 - N2A

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | 3 | | 26.3 | mg/Kg | 1 | 25.0 | 105 | 48.9 - 172 |

Sample: 397921 - N2A

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.65 | mg/Kg | 1 | 2.00 | 82 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.61 | mg/Kg | 1 | 2.00 | 80 | 68.4 - 120 |

Sample: 397922 - N2B

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 29 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.82 | mg/Kg | 1 | 2.00 | 91 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.84 | mg/Kg | 1 | 2.00 | 92 | 67.9 - 120 |

Sample: 397922 - N2B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122986

Prep Batch: 104015

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | 3 | | 26.8 | mg/Kg | 1 | 25.0 | 107 | 48.9 - 172 |

Sample: 397922 - N2B

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.71 | mg/Kg | 1 | 2.00 | 86 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.67 | mg/Kg | 1 | 2.00 | 84 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 30 of 62
Rifle, Colorado

Sample: 397923 - N3A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | s | 1.83 | mg/Kg | 1 | 2.00 | 92 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.90 | mg/Kg | 1 | 2.00 | 95 | 67.9 - 120 |

Sample: 397923 - N3A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122987
Prep Batch: 104016

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | s | 34.1 | mg/Kg | 1 | 25.0 | 136 | 48.9 - 172 |

Sample: 397923 - N3A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 31 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 68.4 - 120 |

Sample: 397924 - N3B

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-----------|-----------|--------------|-------|----------|--------|
| Benzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.86 | mg/Kg | 1 | 2.00 | 93 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.90 | mg/Kg | 1 | 2.00 | 95 | 67.9 - 120 |

Sample: 397924 - N3B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 31.5 | mg/Kg | 1 | 25.0 | 126 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 32 of 62
Rifle, Colorado

Sample: 397924 - N3B

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.75 | mg/Kg | 1 | 2.00 | 87 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.73 | mg/Kg | 1 | 2.00 | 86 | 68.4 - 120 |

Sample: 397925 - N4A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.43 | mg/Kg | 1 | 2.00 | 72 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.56 | mg/Kg | 1 | 2.00 | 78 | 67.9 - 120 |

Sample: 397925 - N4A

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122987
Prep Batch: 104016

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 33 of 62
Rifle, Colorado

sample 397925 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | s | | 32.0 | mg/Kg | 1 | 25.0 | 128 | 48.9 - 172 |

Sample: 397925 - N4A

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | | |
|------------------------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|------------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 | | | |
| | | | | | | | | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
| Trifluorotoluene (TFT) | Qsr | Qsr | 3 | 1.35 | mg/Kg | 1 | 2.00 | 68 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Qsr | Qsr | 3 | 1.33 | mg/Kg | 1 | 2.00 | 66 | 68.4 - 120 |

Sample: 397926 - N4B

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 34 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.84 | mg/Kg | 1 | 2.00 | 92 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.81 | mg/Kg | 1 | 2.00 | 90 | 67.9 - 120 |

Sample: 397926 - N4B

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 31.9 | mg/Kg | 1 | 25.0 | 128 | 48.9 - 172 |

Sample: 397926 - N4B

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.73 | mg/Kg | 1 | 2.00 | 86 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.66 | mg/Kg | 1 | 2.00 | 83 | 68.4 - 120 |

Sample: 397927 - EXB1

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 35 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.69 | mg/Kg | 1 | 2.00 | 84 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.80 | mg/Kg | 1 | 2.00 | 90 | 67.9 - 120 |

Sample: 397927 - EXB1

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 34.0 | mg/Kg | 1 | 25.0 | 136 | 48.9 - 172 |

Sample: 397927 - EXB1

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.59 | mg/Kg | 1 | 2.00 | 80 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.66 | mg/Kg | 1 | 2.00 | 83 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 36 of 62
Rifle, Colorado

Sample: 397928 - EXB2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | s | 1.67 | mg/Kg | 1 | 2.00 | 84 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.68 | mg/Kg | 1 | 2.00 | 84 | 67.9 - 120 |

Sample: 397928 - EXB2

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122987
Prep Batch: 104016

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | s | 36.1 | mg/Kg | 1 | 25.0 | 144 | 48.9 - 172 |

Sample: 397928 - EXB2

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 37 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 1.56 | mg/Kg | 1 | 2.00 | 78 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.53 | mg/Kg | 1 | 2.00 | 76 | 68.4 - 120 |

Sample: 397929 - EXB3

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-----------|-----------|-----------|-------|----------|--------|
| Benzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr, Qs | 1,2,3,4,6 | 0.0318 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 1.66 | mg/Kg | 1 | 2.00 | 83 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.68 | mg/Kg | 1 | 2.00 | 84 | 67.9 - 120 |

Sample: 397929 - EXB3

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | s | 31.7 | mg/Kg | 1 | 25.0 | 127 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 38 of 62
Rifle, Colorado

Sample: 397929 - EXB3

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.56 | mg/Kg | 1 | 2.00 | 78 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.52 | mg/Kg | 1 | 2.00 | 76 | 68.4 - 120 |

Sample: 397930 - EXB4

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.75 | mg/Kg | 1 | 2.00 | 88 | 67.9 - 120 |

Sample: 397930 - EXB4

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122987
Prep Batch: 104016

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 39 of 62
Rifle, Colorado

sample 397930 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | s | | 33.1 | mg/Kg | 1 | 25.0 | 132 | 48.9 - 172 |

Sample: 397930 - EXB4

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL | | | | | |
|------------------------------|------|---------|--------|-------|----------|--------------|------------------|-----------------|
| | | | Result | Units | Dilution | RL | | |
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | s | 1.61 | mg/Kg | 1 | 2.00 | 80 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.72 | mg/Kg | 1 | 2.00 | 86 | 68.4 - 120 |

Sample: 397931 - EXB5

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|---------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs | 1,2,3,4,6 | 0.0732 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 40 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.80 | mg/Kg | 1 | 2.00 | 90 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.96 | mg/Kg | 1 | 2.00 | 98 | 67.9 - 120 |

Sample: 397931 - EXB5

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 34.0 | mg/Kg | 1 | 25.0 | 136 | 48.9 - 172 |

Sample: 397931 - EXB5

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr | 1,2,3,4 | 6.16 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.65 | mg/Kg | 1 | 2.00 | 82 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.70 | mg/Kg | 1 | 2.00 | 85 | 68.4 - 120 |

Sample: 397932 - EXB6

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 41 of 62
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-----------|-----------|---------------|-------|----------|--------|
| Benzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr, Qs, U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr, Qs | 1,2,3,4,6 | 0.0403 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.87 | mg/Kg | 1 | 2.00 | 94 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.85 | mg/Kg | 1 | 2.00 | 92 | 67.9 - 120 |

Sample: 397932 - EXB6

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | s | | 32.3 | mg/Kg | 1 | 25.0 | 129 | 48.9 - 172 |

Sample: 397932 - EXB6

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122984

Prep Batch: 104014

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-------|---------|--------------|-------|----------|------|
| GRO | Qr, U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | s | 1.76 | mg/Kg | 1 | 2.00 | 88 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.78 | mg/Kg | 1 | 2.00 | 89 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 42 of 62
Rifle, Colorado

Sample: 397933 - EXB7

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122983
Prep Batch: 104014

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-----------|---------------|--------------|-------|----------|--------|
| Benzene | Qr, Qs, U | 1, 2, 3, 4, 6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr, Qs, U | 1, 2, 3, 4, 6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr, Qs, U | 1, 2, 3, 4, 6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr, Qs, U | 1, 2, 3, 4, 6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.97 | mg/Kg | 1 | 2.00 | 98 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.95 | mg/Kg | 1 | 2.00 | 98 | 67.9 - 120 |

Sample: 397933 - EXB7

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122987
Prep Batch: 104016

Analytical Method: S 8015 D
Date Analyzed: 2015-07-09
Sample Preparation:

Prep Method: N/A
Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------------|--------------|-------|----------|------|
| DRO | Jb | 1, 2, 3, 4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 28.9 | mg/Kg | 1 | 25.0 | 116 | 48.9 - 172 |

Sample: 397933 - EXB7

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-------|------------|--------------|-------|----------|------|
| GRO | Qr, U | 1, 2, 3, 4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 43 of 62
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | s | 1.79 | mg/Kg | 1 | 2.00 | 90 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.81 | mg/Kg | 1 | 2.00 | 90 | 68.4 - 120 |

Sample: 397934 - EXB8

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122983

Prep Batch: 104014

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|---------|-----------|--------------|-------|----------|--------|
| Benzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,Qs,U | 1,2,3,4,6 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 6 | 1.79 | mg/Kg | 1 | 2.00 | 90 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.81 | mg/Kg | 1 | 2.00 | 90 | 67.9 - 120 |

Sample: 397934 - EXB8

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122987

Prep Batch: 104016

Analytical Method: S 8015 D

Date Analyzed: 2015-07-09

Sample Preparation:

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | s | 30.8 | mg/Kg | 1 | 25.0 | 123 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 44 of 62
Rifle, Colorado

Sample: 397934 - EXB8

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122984
Prep Batch: 104014

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | s | 1.68 | mg/Kg | 1 | 2.00 | 84 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | s | 1.66 | mg/Kg | 1 | 2.00 | 83 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 45 of 62
Rifle, Colorado

Method Blanks

Method Blank (1) QC Batch: 122981

QC Batch: 122981
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|---------------|-------|------|
| Benzene | | 1,2,3,4,6 | <0.00444 | mg/Kg | 0.02 |
| Toluene | | 1,2,3,4,6 | <0.00457 | mg/Kg | 0.02 |
| Ethylbenzene | | 1,2,3,4,6 | <0.00762 | mg/Kg | 0.02 |
| Xylene | | 1,2,3,4,6 | <0.00367 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 2.05 | mg/Kg | 1 | 2.00 | 102 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.03 | mg/Kg | 1 | 2.00 | 102 | 67.9 - 120 |

Method Blank (1) QC Batch: 122982

QC Batch: 122982
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| GRO | | 1,2,3,4 | <0.641 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.91 | mg/Kg | 1 | 2.00 | 96 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.78 | mg/Kg | 1 | 2.00 | 89 | 68.4 - 120 |

Method Blank (1) QC Batch: 122983

QC Batch: 122983
Prep Batch: 104014

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 46 of 62
Rifle, Colorado

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|---------------|-------|------|
| Benzene | | 1,2,3,4,6 | <0.00444 | mg/Kg | 0.02 |
| Toluene | | 1,2,3,4,6 | <0.00457 | mg/Kg | 0.02 |
| Ethylbenzene | | 1,2,3,4,6 | <0.00762 | mg/Kg | 0.02 |
| Xylene | | 1,2,3,4,6 | <0.00367 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 6 | 1.99 | mg/Kg | 1 | 2.00 | 100 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 2.00 | mg/Kg | 1 | 2.00 | 100 | 67.9 - 120 |

Method Blank (1) QC Batch: 122984

QC Batch: 122984
Prep Batch: 104014

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| GRO | | 1,2,3,4 | <0.641 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.89 | mg/Kg | 1 | 2.00 | 94 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.83 | mg/Kg | 1 | 2.00 | 92 | 68.4 - 120 |

Method Blank (1) QC Batch: 122986

QC Batch: 122986
Prep Batch: 104015

Date Analyzed: 2015-07-09
QC Preparation: 2015-07-09

Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| DRO | | 1,2,3,4 | 12.9 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 25.4 | mg/Kg | 1 | 25.0 | 102 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 47 of 62
Rifle, Colorado

Method Blank (1) QC Batch: 122987

QC Batch: 122987
Prep Batch: 104016

Date Analyzed: 2015-07-09
QC Preparation: 2015-07-09

Analyzed By: SM
Prepared By: SM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| DRO | | 1,2,3,4 | 12.0 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | s | 25.7 | mg/Kg | 1 | 25.0 | 103 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 48 of 62
Rifle, Colorado

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 122981
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,6 | 1.94 | mg/Kg | 1 | 2.00 | <0.00444 | 97 | 71.4 - 120 |
| Toluene | | 1,2,3,4,6 | 1.92 | mg/Kg | 1 | 2.00 | <0.00457 | 96 | 71.8 - 120 |
| Ethylbenzene | | 1,2,3,4,6 | 1.93 | mg/Kg | 1 | 2.00 | <0.00762 | 96 | 71.1 - 120 |
| Xylene | | 1,2,3,4,6 | 5.83 | mg/Kg | 1 | 6.00 | <0.00367 | 97 | 72.5 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,6 | 1.89 | mg/Kg | 1 | 2.00 | <0.00444 | 94 | 71.4 - 120 | 3 | 20 |
| Toluene | | 1,2,3,4,6 | 1.88 | mg/Kg | 1 | 2.00 | <0.00457 | 94 | 71.8 - 120 | 2 | 20 |
| Ethylbenzene | | 1,2,3,4,6 | 1.89 | mg/Kg | 1 | 2.00 | <0.00762 | 94 | 71.1 - 120 | 2 | 20 |
| Xylene | | 1,2,3,4,6 | 5.68 | mg/Kg | 1 | 6.00 | <0.00367 | 95 | 72.5 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|--|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | | 6 | 1.93 | 2.09 | mg/Kg | 1 | 2.00 | 96 | 104 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 6 | 1.94 | 1.89 | mg/Kg | 1 | 2.00 | 97 | 94 | 67.9 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 122982
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 15.0 | mg/Kg | 1 | 20.0 | <0.641 | 75 | 60.3 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 49 of 62
Rifle, Colorado

control spikes continued ...

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| GRO | | 1,2,3,4 | 15.1 | mg/Kg | 1 | 20.0 | <0.641 | 76 | 60.3 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 3 | 1.83 | 1.81 | mg/Kg | 1 | 2.00 | 92 | 90 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3 | 1.89 | 1.82 | mg/Kg | 1 | 2.00 | 94 | 91 | 68.4 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 122983
Prep Batch: 104014

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,6 | 1.96 | mg/Kg | 1 | 2.00 | <0.00444 | 98 | 71.4 - 120 |
| Toluene | | 1,2,3,4,6 | 1.92 | mg/Kg | 1 | 2.00 | <0.00457 | 96 | 71.8 - 120 |
| Ethylbenzene | | 1,2,3,4,6 | 1.89 | mg/Kg | 1 | 2.00 | <0.00762 | 94 | 71.1 - 120 |
| Xylene | | 1,2,3,4,6 | 5.69 | mg/Kg | 1 | 6.00 | <0.00367 | 95 | 72.5 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,6 | 1.93 | mg/Kg | 1 | 2.00 | <0.00444 | 96 | 71.4 - 120 | 2 | 20 |
| Toluene | | 1,2,3,4,6 | 1.90 | mg/Kg | 1 | 2.00 | <0.00457 | 95 | 71.8 - 120 | 1 | 20 |
| Ethylbenzene | | 1,2,3,4,6 | 1.90 | mg/Kg | 1 | 2.00 | <0.00762 | 95 | 71.1 - 120 | 0 | 20 |
| Xylene | | 1,2,3,4,6 | 6.04 | mg/Kg | 1 | 6.00 | <0.00367 | 101 | 72.5 - 120 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 6 | 1.82 | 1.81 | mg/Kg | 1 | 2.00 | 91 | 90 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 6 | 1.92 | 1.90 | mg/Kg | 1 | 2.00 | 96 | 95 | 67.9 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 50 of 62
Rifle, Colorado

Laboratory Control Spike (LCS-1)

QC Batch: 122984
Prep Batch: 104014

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 16.9 | mg/Kg | 1 | 20.0 | <0.641 | 84 | 60.3 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1,2,3,4 | 17.4 | mg/Kg | 1 | 20.0 | <0.641 | 87 | 60.3 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|--|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | | 3 | 1.88 | 1.82 | mg/Kg | 1 | 2.00 | 94 | 91 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.98 | 1.92 | mg/Kg | 1 | 2.00 | 99 | 96 | 68.4 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 122986
Prep Batch: 104015

Date Analyzed: 2015-07-09
QC Preparation: 2015-07-09

Analyzed By: SM
Prepared By: SM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 570 | mg/Kg | 1 | 500 | 12.9 | 111 | 60.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 572 | mg/Kg | 1 | 500 | 12.9 | 112 | 60.9 - 130 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|--|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | | 3 | 25.6 | 25.6 | mg/Kg | 1 | 25.0 | 102 | 102 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 51 of 62
Rifle, Colorado

Laboratory Control Spike (LCS-1)

QC Batch: 122987
Prep Batch: 104016

Date Analyzed: 2015-07-09
QC Preparation: 2015-07-09

Analyzed By: SM
Prepared By: SM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 577 | mg/Kg | 1 | 500 | 12 | 113 | 60.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 563 | mg/Kg | 1 | 500 | 12 | 110 | 60.9 - 130 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 3 | 25.8 | 25.2 | mg/Kg | 1 | 25.0 | 103 | 101 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 52 of 62
Rifle, Colorado

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 397903

QC Batch: 122981
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,6 | 1.80 | mg/Kg | 1 | 2.00 | <0.00444 | 90 | 63.9 - 132 |
| Toluene | | 1,2,3,4,6 | 1.91 | mg/Kg | 1 | 2.00 | <0.00457 | 96 | 64 - 141 |
| Ethylbenzene | | 1,2,3,4,6 | 1.98 | mg/Kg | 1 | 2.00 | <0.00762 | 99 | 66.7 - 148 |
| Xylene | | 1,2,3,4,6 | 5.92 | mg/Kg | 1 | 6.00 | <0.00367 | 99 | 63.6 - 145 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,6 | 1.98 | mg/Kg | 1 | 2.00 | <0.00444 | 99 | 63.9 - 132 | 10 | 20 |
| Toluene | | 1,2,3,4,6 | 2.10 | mg/Kg | 1 | 2.00 | <0.00457 | 105 | 64 - 141 | 10 | 20 |
| Ethylbenzene | | 1,2,3,4,6 | 2.16 | mg/Kg | 1 | 2.00 | <0.00762 | 108 | 66.7 - 148 | 9 | 20 |
| Xylene | | 1,2,3,4,6 | 6.97 | mg/Kg | 1 | 6.00 | <0.00367 | 116 | 63.6 - 145 | 16 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 6 | 1.98 | 2.16 | mg/Kg | 1 | 2 | 99 | 108 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 6 | 1.97 | 2.17 | mg/Kg | 1 | 2 | 98 | 108 | 67.9 - 120 |

Matrix Spike (MS-1) Spiked Sample: 397903

QC Batch: 122982
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 14.7 | mg/Kg | 1 | 20.0 | <0.641 | 74 | 25 - 139 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 53 of 62
Rifle, Colorado

matrix spikes continued ...

| Param | | | MSD | | | Spike | Matrix | | Rec. | | RPD | |
|-------|----|----|---------|-------|-------|--------|--------|--------|-------|----------|-------|----|
| | F | C | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit | |
| Param | F | C | MSD | | | Spike | Matrix | | Rec. | | RPD | |
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit | |
| GRO | Qr | Qr | 1,2,3,4 | 7.91 | mg/Kg | 1 | 20.0 | <0.641 | 40 | 25 - 139 | 60 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 3 | 1.79 | 0.975 | mg/Kg | 1 | 2 | 90 | 49 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3 | 1.80 | 0.967 | mg/Kg | 1 | 2 | 90 | 48 | 68.4 - 120 |

Matrix Spike (MS-1) Spiked Sample: 397023

QC Batch: 122983
Prep Batch: 104014

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | | | | MS | | | Spike | Matrix | | Rec. |
|--------------|----|----|-----------|--------|-------|------|--------|----------|------|------------|
| | F | C | | Result | Units | Dil. | Amount | Result | Rec. | Limit |
| Benzene | Qs | Qs | 1,2,3,4,6 | 1.16 | mg/Kg | 1 | 2.00 | <0.00444 | 58 | 63.9 - 132 |
| Toluene | Qs | Qs | 1,2,3,4,6 | 1.20 | mg/Kg | 1 | 2.00 | <0.00457 | 60 | 64 - 141 |
| Ethylbenzene | Qs | Qs | 1,2,3,4,6 | 1.21 | mg/Kg | 1 | 2.00 | <0.00762 | 60 | 66.7 - 148 |
| Xylene | Qs | Qs | 1,2,3,4,6 | 3.63 | mg/Kg | 1 | 6.00 | <0.00367 | 60 | 63.6 - 145 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | | | MSD | | | Spike | Matrix | | Rec. | | RPD |
|--------------|----|----|-----------|--------|-------|------|--------|----------|------|------------|-----|-------|
| | F | C | | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| Benzene | Qr | Qr | 1,2,3,4,6 | 1.81 | mg/Kg | 1 | 2.00 | <0.00444 | 90 | 63.9 - 132 | 44 | 20 |
| Toluene | Qr | Qr | 1,2,3,4,6 | 1.94 | mg/Kg | 1 | 2.00 | <0.00457 | 97 | 64 - 141 | 47 | 20 |
| Ethylbenzene | Qr | Qr | 1,2,3,4,6 | 2.23 | mg/Kg | 1 | 2.00 | <0.00762 | 112 | 66.7 - 148 | 59 | 20 |
| Xylene | Qr | Qr | 1,2,3,4,6 | 6.05 | mg/Kg | 1 | 6.00 | <0.00367 | 101 | 63.6 - 145 | 50 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----|-----|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 6 | 1.26 | 1.96 | mg/Kg | 1 | 2 | 63 | 98 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | Qsr | Qsr | 6 | 1.23 | 2.04 | mg/Kg | 1 | 2 | 62 | 102 | 67.9 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 54 of 62
Rifle, Colorado

Matrix Spike (MS-1) Spiked Sample: 397923

QC Batch: 122984
Prep Batch: 104014

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 14.6 | mg/Kg | 1 | 20.0 | <0.641 | 73 | 25 - 139 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | Q _r | Q _r 1,2,3,4 | 21.8 | mg/Kg | 1 | 20.0 | <0.641 | 109 | 25 - 139 | 40 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------------|-----------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.52 | 0.212 | mg/Kg | 1 | 2 | 76 | 11 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.78 | 0.106 | mg/Kg | 1 | 2 | 89 | 5 | 68.4 - 120 |

Matrix Spike (MS-1) Spiked Sample: 397922

QC Batch: 122986
Prep Batch: 104015

Date Analyzed: 2015-07-09
QC Preparation: 2015-07-09

Analyzed By: SM
Prepared By: SM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 582 | mg/Kg | 1 | 500 | 12.5 | 114 | 47.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 566 | mg/Kg | 1 | 500 | 12.5 | 111 | 47.9 - 130 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Tricosane | 3 | 28.8 | 27.7 | mg/Kg | 1 | 25 | 115 | 111 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 55 of 62
Rifle, Colorado

Matrix Spike (MS-1) Spiked Sample: 397934

QC Batch: 122987
Prep Batch: 104016

Date Analyzed: 2015-07-09
QC Preparation: 2015-07-09

Analyzed By: SM
Prepared By: SM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 614 | mg/Kg | 1 | 500 | 11.9 | 120 | 47.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 597 | mg/Kg | 1 | 500 | 11.9 | 117 | 47.9 - 130 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Tricosane | 3 | 32.8 | 32.1 | mg/Kg | 1 | 25 | 131 | 128 | 48.9 - 172 |

Calibration Standards

Standard (CCV-1)

QC Batch: 122981

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0952 | 95 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0944 | 94 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0945 | 94 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,6 | mg/kg | 0.300 | 0.292 | 97 | 80 - 120 | 2015-07-08 |

Standard (CCV-2)

QC Batch: 122981

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0999 | 100 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.100 | 100 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0994 | 99 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,6 | mg/kg | 0.300 | 0.299 | 100 | 80 - 120 | 2015-07-08 |

Standard (CCV-3)

QC Batch: 122981

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0998 | 100 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0990 | 99 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0978 | 98 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,6 | mg/kg | 0.300 | 0.293 | 98 | 80 - 120 | 2015-07-08 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 57 of 62
Rifle, Colorado

Standard (CCV-1)

QC Batch: 122982

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.835 | 83 | 80 - 120 | 2015-07-08 |

Standard (CCV-2)

QC Batch: 122982

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.820 | 82 | 80 - 120 | 2015-07-08 |

Standard (CCV-3)

QC Batch: 122982

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.858 | 86 | 80 - 120 | 2015-07-08 |

Standard (CCV-1)

QC Batch: 122983

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0977 | 98 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0970 | 97 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0961 | 96 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,6 | mg/kg | 0.300 | 0.289 | 96 | 80 - 120 | 2015-07-08 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 58 of 62
Rifle, Colorado

Standard (CCV-2)

QC Batch: 122983

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0922 | 92 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0931 | 93 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0917 | 92 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,6 | mg/kg | 0.300 | 0.274 | 91 | 80 - 120 | 2015-07-08 |

Standard (CCV-3)

QC Batch: 122983

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0967 | 97 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0965 | 96 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,6 | mg/kg | 0.100 | 0.0960 | 96 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,6 | mg/kg | 0.300 | 0.288 | 96 | 80 - 120 | 2015-07-08 |

Standard (CCV-1)

QC Batch: 122984

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.938 | 94 | 80 - 120 | 2015-07-08 |

Standard (CCV-2)

QC Batch: 122984

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.875 | 88 | 80 - 120 | 2015-07-08 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 59 of 62
Rifle, Colorado

Standard (CCV-3)

QC Batch: 122984

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.891 | 89 | 80 - 120 | 2015-07-08 |

Standard (CCV-1)

QC Batch: 122986

Date Analyzed: 2015-07-09

Analyzed By: SM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 567 | 113 | 80 - 120 | 2015-07-09 |

Standard (CCV-2)

QC Batch: 122986

Date Analyzed: 2015-07-09

Analyzed By: SM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 561 | 112 | 80 - 120 | 2015-07-09 |

Standard (CCV-1)

QC Batch: 122987

Date Analyzed: 2015-07-09

Analyzed By: SM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 561 | 112 | 80 - 120 | 2015-07-09 |

Standard (CCV-2)

QC Batch: 122987

Date Analyzed: 2015-07-09

Analyzed By: SM

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 60 of 62
Rifle, Colorado

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 563 | 113 | 80 - 120 | 2015-07-09 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | NELAP | T104704392-14-8 | Midland |
| 6 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070821
Whiting Boies C-28P

Page Number: 62 of 62
Rifle, Colorado

| F | Description |
|-----|--|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 15070821

TraceAnalysis, Inc.

email: lab@traceanalysis.com

8701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1288
Fax (806) 794-1288
1 (800) 378-1288

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAqua Testing
2501 Mayra Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

| | | | | | | |
|--------------------------------------|--|---------------|------------------|-------------------|---|----------------|
| Company Name: | APEX COMPANIES, LLC | | Phone #: | 918-740-2766 | | |
| Address: | 2212 NW 50TH Street Suite 241C OKC, OK 73112 | | | | | |
| Contact Person: | MIKE HOLDER | | | | | |
| Invoice to: | APEX COMPANIES, LLC | | | | | |
| Project #: | Whiting Boles C-28P | | | | | |
| Project Location: (Include state) | Rifle, Colorado | | | | | |
| LAB # (LAB USE ONLY) | FIELD CODE | # CON TAINERS | Volu me/A mou nt | MATRIX | PRESERVATIVE METHOD | SAMPLING |
| 915 | SAB | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | DATE TIME |
| 916 | W1A | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 7/6/15 11:42am |
| 917 | W1B | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:43 |
| 918 | W2A | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:44 |
| 919 | W2B | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:47 |
| 920 | N1A | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:46 |
| 921 | N1B | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:49 |
| 922 | N2A | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:50 |
| 923 | N2B | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:52 |
| 924 | N3A | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:51 |
| 925 | N3B | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:53 |
| 926 | N3C | 1 | 14 oz | W A S T E R L R E | H H H C N S O ₃ O ₄ H E E | 11:54 |
| Received by: | Company: | Date: | Time: | Company: | Date: | Time: |
| MA Apex | Apex | 7/6/15 | | TH Apex | 7/6/15 | 9:15 |
| INST: | INST: | OBS: | COR: | INST: | OBS: | COR: |
| 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 |

| ANALYSIS REQUEST (Circle or Specify Method No.) | | | | | | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| WT | TP | TA | TP | TA | TP | TA | TP | TA | TP | TA | TP | TA | TP | TA |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 |
| 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
| 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 |
| 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 |
| 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
| 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 |
| 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 |
| 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 |
| 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 |
| 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 |
| 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
| 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 |
| 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 |
| 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 |
| 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 |
| 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 |
| 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 |
| 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 |
| 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 |
| 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 |
| 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 |
| 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 |
| 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 |
| 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
| 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 |
| 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 |
| 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 |
| 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 |
| 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 1 | | | | | | |

TraceAnalysis, Inc.

email: lab@traceanalysis.com

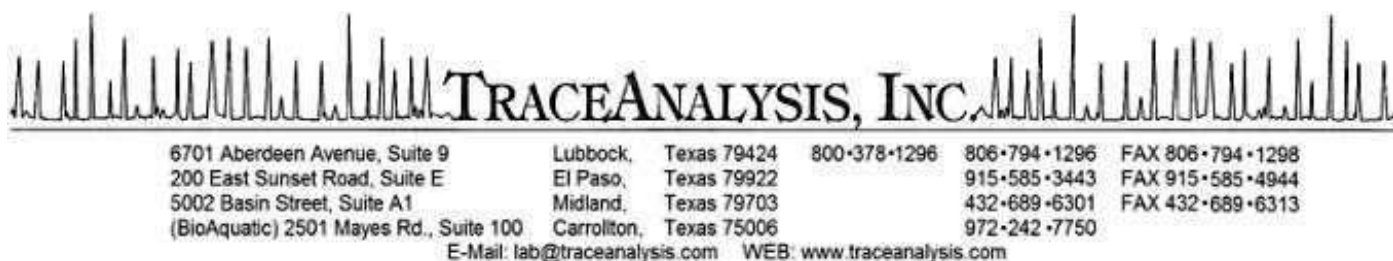
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2501 Mayes Rd., Ste 1000
Carrollton, Texas 75006
Tel (972) 242-7750

| | | | |
|--|------------|--|---------------------------|
| Company Name: APEX COMPANIES, LLC | | Phone #: 918-740-2766 | |
| Address: 2212 NW 50TH Street Suite 241C OKC, OK 73112 | | Fax #: | |
| Contact Person: MIKE HOLDER | | E-mail: mholder@apexco2.com | |
| Invoice to: APEX COMPANIES, LLC | | Project Name: Whiting Boles C-28P | |
| Project #: Project Location: (include state) | | Project Name: Whiting Boles C-28P | |
| Rifle, Colorado | | Sampler Signature: <i>[Signature]</i> | |
| LAB # (LAB USE ONLY) | FIELD CODE | # CON TAIN ERS | Volu me/A mou nt |
| 925 | N4A | 140Z | X |
| 926 | N4B | 140Z | X |
| 927 | EXB1 | 140Z | X |
| 928 | EXB2 | 140Z | X |
| 929 | EXB3 | 140Z | X |
| 930 | EXB4 | 140Z | X |
| 931 | EXB5 | 140Z | X |
| 932 | EXB6 | 140Z | X |
| 933 | EXB7 | 140Z | X |
| 934 | EXB8 | 140Z | X |
| Relinquished by: Apex Date: 7/6/15 Time: | | Received by: Brandt Date: 7/6/15 Time: | |
| Company: Apex Date: 7/6/15 Time: | | Company: Apex Date: 7/6/15 Time: | |
| LAB USE ONLY | | LAB USE ONLY | |



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Mike Holder
Apex Companies, LLC-OKC
2212 NW 50th Street
Suite 241 C
Oklahoma City, OK, 73112

Report Date: July 10, 2015

Work Order: 15070716



Project Location: Rifle, Colorado
Project Name: Whiting Boies C-28P
Project Number: Whiting Boies C-28P

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 397754 | SP-1 | soil | 2015-07-03 | 16:36 | 2015-07-07 |
| 397755 | SP-2 | soil | 2015-07-03 | 16:48 | 2015-07-07 |
| 397756 | SP-3 | soil | 2015-07-03 | 16:53 | 2015-07-07 |
| 397757 | OB-1 | soil | 2015-07-03 | 17:13 | 2015-07-07 |
| 397758 | OB-2 | soil | 2015-07-03 | 17:14 | 2015-07-07 |
| 397759 | OB-3 | soil | 2015-07-03 | 17:16 | 2015-07-07 |
| 397760 | OB-4 | soil | 2015-07-03 | 17:18 | 2015-07-07 |
| 397761 | OB-5 | soil | 2015-07-03 | 17:20 | 2015-07-07 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

A handwritten signature in black ink, appearing to read "Brian Pellam". The signature is fluid and cursive, with a long horizontal stroke at the end.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

| | |
|--|-----------|
| Case Narrative | 4 |
| Analytical Report | 5 |
| Sample 397754 (SP-1) | 5 |
| Sample 397755 (SP-2) | 6 |
| Sample 397756 (SP-3) | 7 |
| Sample 397757 (OB-1) | 8 |
| Sample 397758 (OB-2) | 9 |
| Sample 397759 (OB-3) | 10 |
| Sample 397760 (OB-4) | 12 |
| Sample 397761 (OB-5) | 13 |
| Method Blanks | 15 |
| QC Batch 122940 - Method Blank (1) | 15 |
| QC Batch 122981 - Method Blank (1) | 15 |
| QC Batch 122982 - Method Blank (1) | 15 |
| Laboratory Control Spikes | 17 |
| QC Batch 122940 - LCS (1) | 17 |
| QC Batch 122981 - LCS (1) | 17 |
| QC Batch 122982 - LCS (1) | 18 |
| Matrix Spikes | 19 |
| QC Batch 122940 - xMS (1) | 19 |
| QC Batch 122981 - MS (1) | 19 |
| QC Batch 122982 - MS (1) | 20 |
| Calibration Standards | 21 |
| QC Batch 122940 - CCV (1) | 21 |
| QC Batch 122940 - CCV (2) | 21 |
| QC Batch 122981 - CCV (1) | 21 |
| QC Batch 122981 - CCV (2) | 21 |
| QC Batch 122981 - CCV (3) | 22 |
| QC Batch 122982 - CCV (1) | 22 |
| QC Batch 122982 - CCV (2) | 22 |
| QC Batch 122982 - CCV (3) | 22 |
| Appendix | 24 |
| Report Definitions | 24 |
| Laboratory Certifications | 24 |
| Standard Flags | 24 |
| Result Comments | 25 |
| Attachments | 25 |

Case Narrative

Samples for project Whiting Boies C-28P were received by TraceAnalysis, Inc. on 2015-07-07 and assigned to work order 15070716. Samples for work order 15070716 were received intact at a temperature of 5.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 104013 | 2015-07-08 at 15:57 | 122981 | 2015-07-08 at 15:57 |
| TPH DRO - NEW | S 8015 D | 103981 | 2015-07-08 at 09:07 | 122940 | 2015-07-08 at 09:47 |
| TPH GRO | S 8015 D | 104013 | 2015-07-08 at 15:57 | 122982 | 2015-07-08 at 15:57 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15070716 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

The temperature of the Cold Box for storing samples was between 6 and 28.5 degrees C on July 8, 2015. We do not feel this will affect your results.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 5 of 25
Rifle, Colorado

Analytical Report

Sample: 397754 - SP-1

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |
| Toluene | | 1,2,3,4,5 | 0.142 | mg/Kg | 5 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |
| Xylene | | 1,2,3,4,5 | 5.69 | mg/Kg | 5 | 0.0200 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 5 | 1.87 | mg/Kg | 5 | 10.0 | 19 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | Qsr | Qsr | 5 | 3.69 | mg/Kg | 5 | 10.0 | 37 | 67.9 - 120 |

Sample: 397754 - SP-1

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | | 1,2,3,4 | 279 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 29.3 | mg/Kg | 1 | 25.0 | 117 | 48.9 - 172 |

Sample: 397754 - SP-1

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 6 of 25
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|---------|--------------|-------|----------|------|
| GRO | Q _r | 1,2,3,4 | 279 | mg/Kg | 5 | 4.00 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.16 | mg/Kg | 5 | 2.00 | 58 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 8.10 | mg/Kg | 5 | 2.00 | 405 | 68.4 - 120 |

Sample: 397755 - SP-2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL | Units | Dilution | RL | |
|--------------|------|------|-----------|--------------|----------|----|--------|
| | | | Result | | | | |
| Benzene | 2 | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | | 1,2,3,4,5 | 0.949 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-------------------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 1.47 | mg/Kg | 2 | 2.00 | 74 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} 5 | 2.50 | mg/Kg | 2 | 2.00 | 125 | 67.9 - 120 |

Sample: 397755 - SP-2

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| | | | RL | | | |
|-----------|------|---------|------------|-------|----------|------|
| Parameter | Flag | Cert | Result | Units | Dilution | RL |
| DRO | | 1,2,3,4 | 268 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 28.5 | mg/Kg | 1 | 25.0 | 114 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 7 of 25
Rifle, Colorado

Sample: 397755 - SP-2

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr | 1,2,3,4 | 77.1 | mg/Kg | 2 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.29 | mg/Kg | 2 | 2.00 | 64 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 4.47 | mg/Kg | 2 | 2.00 | 224 | 68.4 - 120 |

Sample: 397756 - SP-3

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | | 1,2,3,4,5 | 0.664 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | | 5 | 1.82 | mg/Kg | 1 | 2.00 | 91 | 65.6 - 125 | |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 5 | 2.61 | mg/Kg | 1 | 2.00 | 130 | 67.9 - 120 |

Sample: 397756 - SP-3

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 8 of 25
Rifle, Colorado

sample 397756 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | | 1,2,3,4 | 240 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | | 3 | 29.0 | mg/Kg | 1 | 25.0 | 116 | 48.9 - 172 |

Sample: 397756 - SP-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Lubbock | | | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| QC Batch: | 122982 | Date Analyzed: | 2015-07-08 | Analyzed By: | JS |
| Prep Batch: | 104013 | Sample Preparation: | 2015-07-08 | Prepared By: | JS |

| Parameter | Flag | Cert | RL | | | Units | Dilution | RL |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| | | | Result | | | | | |
| GRO | Q _r | 1,2,3,4 | 48.0 | | | mg/Kg | 1 | 4.00 |
| | | | | | | | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | 3 | 1.68 | mg/Kg | 1 | 2.00 | 84 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 4.41 | mg/Kg | 1 | 2.00 | 220 |
| | | | | | | | | 68.4 - 120 |

Sample: 397757 - OB-1

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Lubbock | | | | |
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 122981 | Date Analyzed: | 2015-07-08 | Analyzed By: | JS |
| Prep Batch: | 104013 | Sample Preparation: | 2015-07-08 | Prepared By: | JS |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 9 of 25
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 1.70 | mg/Kg | 1 | 2.00 | 85 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.01 | mg/Kg | 1 | 2.00 | 100 | 67.9 - 120 |

Sample: 397757 - OB-1

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 26.3 | mg/Kg | 1 | 25.0 | 105 | 48.9 - 172 |

Sample: 397757 - OB-1

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.58 | mg/Kg | 1 | 2.00 | 79 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.73 | mg/Kg | 1 | 2.00 | 87 | 68.4 - 120 |

Sample: 397758 - OB-2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 10 of 25
Rifle, Colorado

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 1.56 | mg/Kg | 1 | 2.00 | 78 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 1.95 | mg/Kg | 1 | 2.00 | 98 | 67.9 - 120 |

Sample: 397758 - OB-2

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 27.2 | mg/Kg | 1 | 25.0 | 109 | 48.9 - 172 |

Sample: 397758 - OB-2

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 3 | 1.42 | mg/Kg | 1 | 2.00 | 71 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.68 | mg/Kg | 1 | 2.00 | 84 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 11 of 25
Rifle, Colorado

Sample: 397759 - OB-3

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122981

Prep Batch: 104013

Analytical Method: S 8021B

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 1.79 | mg/Kg | 1 | 2.00 | 90 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.20 | mg/Kg | 1 | 2.00 | 110 | 67.9 - 120 |

Sample: 397759 - OB-3

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 122940

Prep Batch: 103981

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation:

Prep Method: N/A

Analyzed By: HJ

Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | B | 1,2,3,4 | 143 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 65.3 | mg/Kg | 1 | 50.0 | 131 | 48.9 - 172 |

Sample: 397759 - OB-3

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 122982

Prep Batch: 104013

Analytical Method: S 8015 D

Date Analyzed: 2015-07-08

Sample Preparation: 2015-07-08

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 12 of 25
Rifle, Colorado

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.66 | mg/Kg | 1 | 2.00 | 83 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.74 | mg/Kg | 1 | 2.00 | 87 | 68.4 - 120 |

Sample: 397760 - OB-4

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 1.70 | mg/Kg | 1 | 2.00 | 85 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 1.98 | mg/Kg | 1 | 2.00 | 99 | 67.9 - 120 |

Sample: 397760 - OB-4

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 26.2 | mg/Kg | 1 | 25.0 | 105 | 48.9 - 172 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 13 of 25
Rifle, Colorado

Sample: 397760 - OB-4

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.55 | mg/Kg | 1 | 2.00 | 78 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 68.4 - 120 |

Sample: 397761 - OB-5

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122981
Prep Batch: 104013

Analytical Method: S 8021B
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 1.85 | mg/Kg | 1 | 2.00 | 92 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.01 | mg/Kg | 1 | 2.00 | 100 | 67.9 - 120 |

Sample: 397761 - OB-5

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 122940
Prep Batch: 103981

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

continued ...

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 14 of 25
Rifle, Colorado

sample 397761 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | 3 | 29.6 | mg/Kg | 1 | 25.0 | 118 | 48.9 - 172 | |

Sample: 397761 - OB-5

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 122982
Prep Batch: 104013

Analytical Method: S 8015 D
Date Analyzed: 2015-07-08
Sample Preparation: 2015-07-08

Prep Method: S 5035
Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | RL | | | | | |
|------------------------------|------|---------|--------|-------|----------|--------------|------------------|-----------------|
| | | | Result | Units | Dilution | RL | | |
| GRO | Qr,U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 | | |
| | | | | | | | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | 3 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.74 | mg/Kg | 1 | 2.00 | 87 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 15 of 25
Rifle, Colorado

Method Blanks

Method Blank (1) QC Batch: 122940

QC Batch: 122940 Date Analyzed: 2015-07-08 Analyzed By: HJ
Prep Batch: 103981 QC Preparation: 2015-07-08 Prepared By: HJ

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| DRO | | 1,2,3,4 | 14.8 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 26.9 | mg/Kg | 1 | 25.0 | 108 | 48.9 - 172 |

Method Blank (1) QC Batch: 122981

QC Batch: 122981 Date Analyzed: 2015-07-08 Analyzed By: JS
Prep Batch: 104013 QC Preparation: 2015-07-08 Prepared By: JS

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|---------------|-------|------|
| Benzene | | 1,2,3,4,5 | <0.00444 | mg/Kg | 0.02 |
| Toluene | | 1,2,3,4,5 | <0.00457 | mg/Kg | 0.02 |
| Ethylbenzene | | 1,2,3,4,5 | <0.00762 | mg/Kg | 0.02 |
| Xylene | | 1,2,3,4,5 | <0.00367 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 2.05 | mg/Kg | 1 | 2.00 | 102 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.03 | mg/Kg | 1 | 2.00 | 102 | 67.9 - 120 |

Method Blank (1) QC Batch: 122982

QC Batch: 122982 Date Analyzed: 2015-07-08 Analyzed By: JS
Prep Batch: 104013 QC Preparation: 2015-07-08 Prepared By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 16 of 25
Rifle, Colorado

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| GRO | | 1,2,3,4 | <0.641 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.91 | mg/Kg | 1 | 2.00 | 96 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.78 | mg/Kg | 1 | 2.00 | 89 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 17 of 25
Rifle, Colorado

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 122940
Prep Batch: 103981

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: HJ
Prepared By: HJ

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 579 | mg/Kg | 1 | 500 | 14.8 | 113 | 60.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 580 | mg/Kg | 1 | 500 | 14.8 | 113 | 60.9 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 3 | 26.2 | 26.5 | mg/Kg | 1 | 25.0 | 105 | 106 | 48.9 - 172 |

Laboratory Control Spike (LCS-1)

QC Batch: 122981
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,5 | 1.94 | mg/Kg | 1 | 2.00 | <0.00444 | 97 | 71.4 - 120 |
| Toluene | | 1,2,3,4,5 | 1.92 | mg/Kg | 1 | 2.00 | <0.00457 | 96 | 71.8 - 120 |
| Ethylbenzene | | 1,2,3,4,5 | 1.93 | mg/Kg | 1 | 2.00 | <0.00762 | 96 | 71.1 - 120 |
| Xylene | | 1,2,3,4,5 | 5.83 | mg/Kg | 1 | 6.00 | <0.00367 | 97 | 72.5 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,5 | 1.89 | mg/Kg | 1 | 2.00 | <0.00444 | 94 | 71.4 - 120 | 3 | 20 |
| Toluene | | 1,2,3,4,5 | 1.88 | mg/Kg | 1 | 2.00 | <0.00457 | 94 | 71.8 - 120 | 2 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 1.89 | mg/Kg | 1 | 2.00 | <0.00762 | 94 | 71.1 - 120 | 2 | 20 |
| Xylene | | 1,2,3,4,5 | 5.68 | mg/Kg | 1 | 6.00 | <0.00367 | 95 | 72.5 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 18 of 25
Rifle, Colorado

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 5 | 1.93 | 2.09 | mg/Kg | 1 | 2.00 | 96 | 104 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 1.94 | 1.89 | mg/Kg | 1 | 2.00 | 97 | 94 | 67.9 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 122982
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 15.0 | mg/Kg | 1 | 20.0 | <0.641 | 75 | 60.3 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1,2,3,4 | 15.1 | mg/Kg | 1 | 20.0 | <0.641 | 76 | 60.3 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 3 | 1.83 | 1.81 | mg/Kg | 1 | 2.00 | 92 | 90 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3 | 1.89 | 1.82 | mg/Kg | 1 | 2.00 | 94 | 91 | 68.4 - 120 |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 19 of 25
Rifle, Colorado

Matrix Spikes

Matrix Spike (xMS-1) Spiked Sample: 397335

QC Batch: 122940
Prep Batch: 103981

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: HJ
Prepared By: HJ

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 792 | mg/Kg | 1 | 500 | 219 | 115 | 47.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 800 | mg/Kg | 1 | 500 | 219 | 116 | 47.9 - 130 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Tricosane | 3 | 38.8 | 38.8 | mg/Kg | 1 | 25 | 155 | 155 | 48.9 - 172 |

Matrix Spike (MS-1) Spiked Sample: 397903

QC Batch: 122981
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,5 | 1.80 | mg/Kg | 1 | 2.00 | <0.00444 | 90 | 63.9 - 132 |
| Toluene | | 1,2,3,4,5 | 1.91 | mg/Kg | 1 | 2.00 | <0.00457 | 96 | 64 - 141 |
| Ethylbenzene | | 1,2,3,4,5 | 1.98 | mg/Kg | 1 | 2.00 | <0.00762 | 99 | 66.7 - 148 |
| Xylene | | 1,2,3,4,5 | 5.92 | mg/Kg | 1 | 6.00 | <0.00367 | 99 | 63.6 - 145 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,5 | 1.98 | mg/Kg | 1 | 2.00 | <0.00444 | 99 | 63.9 - 132 | 10 | 20 |
| Toluene | | 1,2,3,4,5 | 2.10 | mg/Kg | 1 | 2.00 | <0.00457 | 105 | 64 - 141 | 10 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 2.16 | mg/Kg | 1 | 2.00 | <0.00762 | 108 | 66.7 - 148 | 9 | 20 |
| Xylene | | 1,2,3,4,5 | 6.97 | mg/Kg | 1 | 6.00 | <0.00367 | 116 | 63.6 - 145 | 16 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 20 of 25
Rifle, Colorado

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 5 | 1.98 | 2.16 | mg/Kg | 1 | 2 | 99 | 108 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 1.97 | 2.17 | mg/Kg | 1 | 2 | 98 | 108 | 67.9 - 120 |

Matrix Spike (MS-1) Spiked Sample: 397903

QC Batch: 122982
Prep Batch: 104013

Date Analyzed: 2015-07-08
QC Preparation: 2015-07-08

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 14.7 | mg/Kg | 1 | 20.0 | <0.641 | 74 | 25 - 139 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | | MSD | Units | Dil. | Spike | Matrix | Rec. | | RPD | | |
|-------|----------------|----------------|---------|-------|-------|--------|--------|--------|-------|----------|----|----|
| | F | C | Result | | | Amount | Result | Rec. | Limit | | | |
| GRO | Q _r | Q _r | 1,2,3,4 | 7.91 | mg/Kg | 1 | 20.0 | <0.641 | 40 | 25 - 139 | 60 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 3 | 1.79 | 0.975 | mg/Kg | 1 | 2 | 90 | 49 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3 | 1.80 | 0.967 | mg/Kg | 1 | 2 | 90 | 48 | 68.4 - 120 |

Calibration Standards

Standard (CCV-1)

QC Batch: 122940

Date Analyzed: 2015-07-08

Analyzed By: HJ

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 573 | 115 | 80 - 120 | 2015-07-08 |

Standard (CCV-2)

QC Batch: 122940

Date Analyzed: 2015-07-08

Analyzed By: HJ

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 573 | 115 | 80 - 120 | 2015-07-08 |

Standard (CCV-1)

QC Batch: 122981

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0952 | 95 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0944 | 94 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0945 | 94 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.292 | 97 | 80 - 120 | 2015-07-08 |

Standard (CCV-2)

QC Batch: 122981

Date Analyzed: 2015-07-08

Analyzed By: JS

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 22 of 25
Rifle, Colorado

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0999 | 100 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.100 | 100 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0994 | 99 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.299 | 100 | 80 - 120 | 2015-07-08 |

Standard (CCV-3)

QC Batch: 122981

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0998 | 100 | 80 - 120 | 2015-07-08 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0990 | 99 | 80 - 120 | 2015-07-08 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0978 | 98 | 80 - 120 | 2015-07-08 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.293 | 98 | 80 - 120 | 2015-07-08 |

Standard (CCV-1)

QC Batch: 122982

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.835 | 83 | 80 - 120 | 2015-07-08 |

Standard (CCV-2)

QC Batch: 122982

Date Analyzed: 2015-07-08

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.820 | 82 | 80 - 120 | 2015-07-08 |

Page Number: 23 of 25
Rifle, Colorado

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.858 | 86 | 80 - 120 | 2015-07-08 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |

Report Date: July 10, 2015
Whiting Boies C-28P

Work Order: 15070716
Whiting Boies C-28P

Page Number: 25 of 25
Rifle, Colorado

| F | Description |
|---|---|
| U | The analyte is not detected above the SDL |

Result Comments

- 1 dilution due to hydrocarbons.
- 2 dilution due to hydrocarbons.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
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Tel (432) 689-6301
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El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

| Company Name: | APEX COMPANIES, LLC | | Phone #: | 918-740-2766 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-----------------|----------------------|---------------------|---|---|---|---|----|---|---------------------|----|---|---|---|---|---|----------|---|----------------|---|---|----------------|---|---|--------|------|---|
| Address: | 2212 NW 50TH Street Suite 241C OKC, Ok 73112 | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Person: | MIKE HOLDER | | E-mail: | mholder@apexcos.com | | | | | | | | | | | | | | | | | | | | | | | | |
| Invoice to: | APEX COMPANIES, LLC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | Project Name: Whiting/Boles C-28P | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: (Include state) | Sampler Signature: <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rifle, Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume me/ mou nt | MATRIX | | | | | | | PRESERVATIVE METHOD | | | | | | | SAMPLING | | | | | | | | | | |
| | | | | W | A | T | S | O | AI | R | E | SL | U | D | G | H | C | H | N | O ₃ | H | S | O ₄ | N | O | N | IC | E |
| 399754 | SP - 1 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | 7/3/15 | 4:36 | |
| 755 | SP - 2 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 4:48 | |
| 756 | SP - 3 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 4:53 | |
| 757 | OB - 1 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 5:13 | |
| 758 | OB - 2 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 5:14 | |
| 759 | OB - 3 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 5:16 | |
| 760 | OB - 4 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 5:18 | |
| 761 | OB - 5 | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | 5:20 | |
| | | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 4 oz | X | | | | | | | | | | | | | | | | | | | | | | | | |

Relinquished by: *[Signature]*

Company: Apex

Date: 7/6/15

Time: 10am

Received by: *[Signature]*

Company: Apex

Date: 7/30

Time: 930

INST: 183

OBS: 5.3 °C

COP: 5.3 °C

Relinquished by:

Date: _____ Time: _____

Received by: 1402

Company: _____ Date: _____

Time:

2

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

REVIEWS

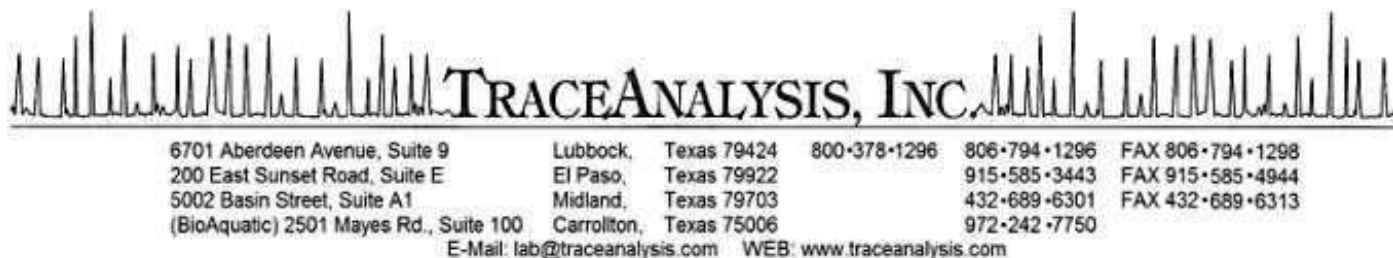
ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

24 hour turn
please

FX 6414 0020 3403



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Mike Holder
Apex Companies, LLC-OKC
2212 NW 50th Street
Suite 241 C
Oklahoma City, OK, 73112

Report Date: August 18, 2015

Work Order: 15080303



Project Location: Rifle, CO
Project Name: Boies 27A
Project Number: 452711-004


Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 400677 | TS-1 | soil | 2015-07-30 | 13:09 | 2015-08-01 |
| 400678 | TS-2 | soil | 2015-07-30 | 13:13 | 2015-08-01 |
| 400679 | TS-3 | soil | 2015-07-30 | 13:17 | 2015-08-01 |
| 400680 | TS-4 | soil | 2015-07-30 | 13:20 | 2015-08-01 |
| 400681 | TS-5 | soil | 2015-07-30 | 13:22 | 2015-08-01 |
| 400682 | TS-6 | soil | 2015-07-30 | 13:24 | 2015-08-01 |
| 400683 | CAP 27A | soil | 2015-07-30 | 00:00 | 2015-08-01 |
| 400684 | BG1-27A | soil | 2015-07-30 | 00:00 | 2015-08-01 |
| 400685 | BG2-27A | soil | 2015-07-30 | 00:00 | 2015-08-01 |
| 400686 | G33-27A | soil | 2015-07-30 | 00:00 | 2015-08-01 |
| 400687 | CAP-28P | soil | 2015-07-30 | 14:38 | 2015-08-01 |
| 400688 | BG1-28P | soil | 2015-07-30 | 14:41 | 2015-08-01 |
| 400689 | BG2-28P | soil | 2015-07-30 | 14:42 | 2015-08-01 |
| 400690 | BG3-28P | soil | 2015-07-30 | 14:45 | 2015-08-01 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 44 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich", with a horizontal line drawn underneath it.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

| | |
|--|-----------|
| Case Narrative | 5 |
| Analytical Report | 6 |
| Sample 400677 (TS-1) | 6 |
| Sample 400678 (TS-2) | 7 |
| Sample 400679 (TS-3) | 8 |
| Sample 400680 (TS-4) | 9 |
| Sample 400681 (TS-5) | 10 |
| Sample 400682 (TS-6) | 11 |
| Sample 400683 (CAP 27A) | 13 |
| Sample 400684 (BG1-27A) | 14 |
| Sample 400685 (BG2-27A) | 16 |
| Sample 400686 (G33-27A) | 17 |
| Sample 400687 (CAP-28P) | 19 |
| Sample 400688 (BG1-28P) | 20 |
| Sample 400689 (BG2-28P) | 22 |
| Sample 400690 (BG3-28P) | 23 |
| Method Blanks | 26 |
| QC Batch 123675 - Method Blank (1) | 26 |
| QC Batch 123717 - Method Blank (1) | 26 |
| QC Batch 123718 - Method Blank (1) | 26 |
| QC Batch 123747 - Method Blank (1) | 27 |
| QC Batch 123748 - Method Blank (1) | 27 |
| QC Batch 124151 - Method Blank (1) | 27 |
| QC Batch 124151 - Method Blank (1) | 27 |
| QC Batch 124151 - Method Blank (1) | 28 |
| Duplicates | 29 |
| QC Batch 123707 - Duplicate (1) | 29 |
| QC Batch 123708 - Duplicate (1) | 29 |
| QC Batch 123747 - Duplicate (1) | 29 |
| QC Batch 123748 - Duplicate (1) | 29 |
| Laboratory Control Spikes | 31 |
| QC Batch 123675 - LCS (1) | 31 |
| QC Batch 123717 - LCS (1) | 31 |
| QC Batch 123718 - LCS (1) | 32 |
| QC Batch 124151 - LCS (1) | 32 |
| QC Batch 124151 - LCS (1) | 32 |
| QC Batch 124151 - LCS (1) | 33 |
| Matrix Spikes | 34 |
| QC Batch 123675 - xMS (1) | 34 |
| QC Batch 123717 - MS (1) | 34 |
| QC Batch 123718 - MS (1) | 35 |

| | |
|-------------------------------------|-----------|
| QC Batch 124151 - xMS (1) | 35 |
| QC Batch 124151 - xMS (1) | 35 |
| QC Batch 124151 - xMS (1) | 36 |
| Calibration Standards | 37 |
| QC Batch 123675 - CCV (1) | 37 |
| QC Batch 123675 - CCV (2) | 37 |
| QC Batch 123707 - CCV (1) | 37 |
| QC Batch 123708 - CCV (1) | 37 |
| QC Batch 123717 - CCV (1) | 37 |
| QC Batch 123717 - CCV (2) | 38 |
| QC Batch 123717 - CCV (3) | 38 |
| QC Batch 123718 - CCV (1) | 38 |
| QC Batch 123718 - CCV (2) | 39 |
| QC Batch 123718 - CCV (3) | 39 |
| QC Batch 123747 - ICV (1) | 39 |
| QC Batch 123747 - CCV (1) | 39 |
| QC Batch 123748 - ICV (1) | 40 |
| QC Batch 123748 - CCV (1) | 40 |
| QC Batch 124151 - ICV (1) | 40 |
| QC Batch 124151 - ICV (1) | 40 |
| QC Batch 124151 - ICV (1) | 41 |
| QC Batch 124151 - CCV (1) | 41 |
| QC Batch 124151 - CCV (1) | 41 |
| QC Batch 124151 - CCV (1) | 41 |
| Appendix | 43 |
| Report Definitions | 43 |
| Laboratory Certifications | 43 |
| Standard Flags | 43 |
| Result Comments | 44 |
| Attachments | 44 |

Case Narrative

Samples for project Boies 27A were received by TraceAnalysis, Inc. on 2015-08-01 and assigned to work order 15080303. Samples for work order 15080303 were received intact at a temperature of 21.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|-----------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 104612 | 2015-08-04 at 13:50 | 123717 | 2015-08-04 at 13:50 |
| Ca, Extractable | S 6010C | 104960 | 2015-08-18 at 10:16 | 124151 | 2015-08-18 at 14:57 |
| Conductivity | SM 2510B | 104636 | 2015-08-05 at 17:43 | 123747 | 2015-08-04 at 15:00 |
| Conductivity | SM 2510B | 104637 | 2015-08-04 at 15:00 | 123748 | 2015-08-05 at 12:00 |
| Mg, Extractable | S 6010C | 104960 | 2015-08-18 at 10:16 | 124151 | 2015-08-18 at 14:57 |
| Na, Extractable | S 6010C | 104960 | 2015-08-18 at 10:16 | 124151 | 2015-08-18 at 14:57 |
| pH | S 9045C | 104602 | 2015-08-04 at 16:18 | 123707 | 2015-08-04 at 16:19 |
| pH | S 9045C | 104603 | 2015-08-04 at 16:23 | 123708 | 2015-08-04 at 16:24 |
| SAR | USDA 60 | 104960 | 2015-08-18 at 10:16 | 124151 | 2015-08-18 at 14:57 |
| TPH DRO | S 8015 D | 104574 | 2015-08-03 at 10:00 | 123675 | 2015-08-04 at 11:29 |
| TPH GRO | S 8015 D | 104612 | 2015-08-04 at 13:50 | 123718 | 2015-08-04 at 13:50 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15080303 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 6 of 44
Rifle, CO

Analytical Report

Sample: 400677 - TS-1

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 123717
Prep Batch: 104612

Analytical Method: S 8021B
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-04

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | Jb | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Qsr | 5 | 1.31 | mg/Kg | 2 | 2.00 | 66 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 1.49 | mg/Kg | 2 | 2.00 | 74 | 67.9 - 120 |

Sample: 400677 - TS-1

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123675
Prep Batch: 104574

Analytical Method: S 8015 D
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-03

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 32.7 | mg/Kg | 1 | 25.0 | 131 | 48.9 - 172 |

Sample: 400677 - TS-1

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 123718
Prep Batch: 104612

Analytical Method: S 8015 D
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-04

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 7 of 44
Rifle, CO

| | | | RL | | | | |
|-----------|---|------|---------|--------|-------|----------|------|
| Parameter | | Flag | Cert | Result | Units | Dilution | RL |
| GRO | 2 | U | 1,2,3,4 | <8.00 | mg/Kg | 2 | 4.00 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.38 | mg/Kg | 2 | 2.00 | 69 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.74 | mg/Kg | 2 | 2.00 | 87 | 68.4 - 120 |

Sample: 400678 - TS-2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 123717
Prep Batch: 104612

Analytical Method: S 8021B
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-04

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL | | | | |
|--------------|------|------|-----------|---------|----------|----|--------|
| | | | Result | Units | Dilution | RL | |
| Benzene | 3 | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 5 | 1.16 | mg/Kg | 2 | 2.00 | 58 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | | 5 | 1.37 | mg/Kg | 2 | 2.00 | 68 | 67.9 - 120 |

Sample: 400678 - TS-2

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123675
Prep Batch: 104574

Analytical Method: S 8015 D
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-03

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| | | | RL | | | |
|-----------|------|---------|--------|-------|----------|------|
| Parameter | Flag | Cert | Result | Units | Dilution | RL |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 35.5 | mg/Kg | 1 | 25.0 | 142 | 48.9 - 172 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 8 of 44
Rifle, CO

Sample: 400678 - TS-2

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D |
| QC Batch: | 123718 | Date Analyzed: | 2015-08-04 |
| Prep Batch: | 104612 | Sample Preparation: | 2015-08-04 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | MT |
| | | Prepared By: | MT |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | 4 | 1,2,3,4 | <8.00 | mg/Kg | 2 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.23 | mg/Kg | 2 | 2.00 | 62 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.68 | mg/Kg | 2 | 2.00 | 84 | 68.4 - 120 |

Sample: 400679 - TS-3

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | BTEX | Analytical Method: | S 8021B |
| QC Batch: | 123717 | Date Analyzed: | 2015-08-04 |
| Prep Batch: | 104612 | Sample Preparation: | 2015-08-04 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | MT |
| | | Prepared By: | MT |

| Parameter | Flag | Cert | RL | | | | |
|--------------|------|------|-----------|---------|----------|----|--------|
| | | | Result | Units | Dilution | RL | |
| Benzene | 5 | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 5 | 1.19 | mg/Kg | 2 | 2.00 | 60 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | | 5 | 1.41 | mg/Kg | 2 | 2.00 | 70 | 67.9 - 120 |

Sample: 400679 - TS-3

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | TPH DRO | Analytical Method: | S 8015 D |
| QC Batch: | 123675 | Date Analyzed: | 2015-08-04 |
| Prep Batch: | 104574 | Sample Preparation: | 2015-08-03 |
| | | Prep Method: | N/A |
| | | Analyzed By: | HJ |
| | | Prepared By: | HJ |

continued ...

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 9 of 44
Rifle, CO

sample 400679 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|------|---------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | 3 | 31.8 | mg/Kg | 1 | 25.0 | 127 | 48.9 - 172 | |

Sample: 400679 - TS-3

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D |
| QC Batch: | 123718 | Date Analyzed: | 2015-08-04 |
| Prep Batch: | 104612 | Sample Preparation: | 2015-08-04 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | MT |
| | | Prepared By: | MT |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | |
|-----------|------|------|--------------|-------|----------|----|------|
| GRO | 6 | U | 1,2,3,4 | <8.00 | mg/Kg | 2 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 3 | 1.27 | mg/Kg | 2 | 2.00 | 64 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.55 | mg/Kg | 2 | 2.00 | 78 | 68.4 - 120 |

Sample: 400680 - TS-4

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | BTEX | Analytical Method: | S 8021B |
| QC Batch: | 123717 | Date Analyzed: | 2015-08-04 |
| Prep Batch: | 104612 | Sample Preparation: | 2015-08-04 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | MT |
| | | Prepared By: | MT |

| Parameter | Flag | Cert | RL | | | |
|--------------|------|-----------|---------|-------|----------|--------|
| | | | Result | Units | Dilution | RL |
| Benzene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 10 of 44
Rifle, CO

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 1.39 | mg/Kg | 2 | 2.00 | 70 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 1.53 | mg/Kg | 2 | 2.00 | 76 | 67.9 - 120 |

Sample: 400680 - TS-4

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123675
Prep Batch: 104574

Analytical Method: S 8015 D
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-03

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|-----------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 3 | 35.8 | mg/Kg | 1 | 25.0 | 143 | 48.9 - 172 |

Sample: 400680 - TS-4

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 123718
Prep Batch: 104612

Analytical Method: S 8015 D
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-04

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| | | | RL | | | | |
|-----------|---|------|---------|--------|-------|----------|------|
| Parameter | | Flag | Cert | Result | Units | Dilution | RL |
| GRO | 8 | U | 1,2,3,4 | <8.00 | mg/Kg | 2 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.56 | mg/Kg | 2 | 2.00 | 78 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.80 | mg/Kg | 2 | 2.00 | 90 | 68.4 - 120 |

Sample: 400681 - TS-5

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 123717
Prep Batch: 104612

Analytical Method: S 8021B
Date Analyzed: 2015-08-04
Sample Preparation: 2015-08-04

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 11 of 44
Rifle, CO

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| Benzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 0.687 | mg/Kg | 1 | 1.00 | 69 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.800 | mg/Kg | 1 | 1.00 | 80 | 67.9 - 120 |

Sample: 400681 - TS-5

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | S 8015 D | Prep Method: | N/A |
| Analysis: | TPH DRO | Date Analyzed: | 2015-08-04 | Analyzed By: | HJ |
| QC Batch: | 123675 | Sample Preparation: | 2015-08-03 | Prepared By: | HJ |
| Prep Batch: | 104574 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 32.6 | mg/Kg | 1 | 25.0 | 130 | 48.9 - 172 |

Sample: 400681 - TS-5

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Lubbock | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| Analysis: | TPH GRO | Date Analyzed: | 2015-08-04 | Analyzed By: | MT |
| QC Batch: | 123718 | Sample Preparation: | 2015-08-04 | Prepared By: | MT |
| Prep Batch: | 104612 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | U | 1,2,3,4 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | Qsr | Qsr | 3 | 0.721 | mg/Kg | 1 | 1.00 | 72 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 0.904 | mg/Kg | 1 | 1.00 | 90 | 68.4 - 120 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 12 of 44
Rifle, CO

Sample: 400682 - TS-6

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 123717

Prep Batch: 104612

Analytical Method: S 8021B

Date Analyzed: 2015-08-04

Sample Preparation: 2015-08-04

Prep Method: S 5035

Analyzed By: MT

Prepared By: MT

| Parameter | 9 | Flag | Cert | RL | | | |
|--------------|---|------|-----------|---------|-------|----------|--------|
| | | | | Result | Units | Dilution | RL |
| Benzene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | U | 1,2,3,4,5 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 1.39 | mg/Kg | 2 | 2.00 | 70 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 1.60 | mg/Kg | 2 | 2.00 | 80 | 67.9 - 120 |

Sample: 400682 - TS-6

Laboratory: Lubbock

Analysis: TPH DRO

QC Batch: 123675

Prep Batch: 104574

Analytical Method: S 8015 D

Date Analyzed: 2015-08-04

Sample Preparation: 2015-08-03

Prep Method: N/A

Analyzed By: HJ

Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | Jb | 1,2,3,4 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 32.5 | mg/Kg | 1 | 25.0 | 130 | 48.9 - 172 |

Sample: 400682 - TS-6

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 123718

Prep Batch: 104612

Analytical Method: S 8015 D

Date Analyzed: 2015-08-04

Sample Preparation: 2015-08-04

Prep Method: S 5035

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | |
|-----------|------|------|--------------|-------|----------|----|------|
| GRO | 10 | u | 1,2,3,4 | <8.00 | mg/Kg | 2 | 4.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 13 of 44
Rifle, CO

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.50 | mg/Kg | 2 | 2.00 | 75 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.76 | mg/Kg | 2 | 2.00 | 88 | 68.4 - 120 |

Sample: 400683 - CAP 27A

| | | | | | | |
|-------------|-----------------|---------------------|------------|--------------|---------|--|
| Laboratory: | Lubbock | | | | | |
| Analysis: | Ca, Extractable | Analytical Method: | S 6010C | Prep Method: | S 3005A | |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | Analyzed By: | RR | |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | Prepared By: | RR | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | 322 | mg/Kg | 10 | 10.0 |

Sample: 400683 - CAP 27A

| | | | | | | |
|-------------|--------------|---------------------|------------|--------------|-----|--|
| Laboratory: | Lubbock | | | | | |
| Analysis: | Conductivity | Analytical Method: | SM 2510B | Prep Method: | N/A | |
| QC Batch: | 123747 | Date Analyzed: | 2015-08-04 | Analyzed By: | RL | |
| Prep Batch: | 104636 | Sample Preparation: | | Prepared By: | RL | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 493 | uMHOS/cm | 1 | 0.00 |

Sample: 400683 - CAP 27A

| | | | | | | |
|-------------|-----------------|---------------------|------------|--------------|---------|--|
| Laboratory: | Lubbock | | | | | |
| Analysis: | Mg, Extractable | Analytical Method: | S 6010C | Prep Method: | S 3005A | |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | Analyzed By: | RR | |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | Prepared By: | RR | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 14 of 44
Rifle, CO

Sample: 400683 - CAP 27A

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Na, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | 490 | mg/Kg | 10 | 10.0 |

Sample: 400683 - CAP 27A

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 9.00 | s.u. | 1 | 2.00 |

Sample: 400683 - CAP 27A

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | SAR | Analytical Method: | USDA 60 |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | N/A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 6.23 | | 1 | 1.00 |

Sample: 400684 - BG1-27A

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Ca, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 15 of 44
Rifle, CO

Sample: 400684 - BG1-27A

Laboratory: Lubbock
Analysis: Conductivity
QC Batch: 123747
Prep Batch: 104636

Analytical Method: SM 2510B
Date Analyzed: 2015-08-04
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 84.3 | uMHOS/cm | 1 | 0.00 |

Sample: 400684 - BG1-27A

Laboratory: Lubbock
Analysis: Mg, Extractable
QC Batch: 124151
Prep Batch: 104960

Analytical Method: S 6010C
Date Analyzed: 2015-08-18
Sample Preparation: 2015-08-18

Prep Method: S 3005A
Analyzed By: RR
Prepared By: RR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400684 - BG1-27A

Laboratory: Lubbock
Analysis: Na, Extractable
QC Batch: 124151
Prep Batch: 104960

Analytical Method: S 6010C
Date Analyzed: 2015-08-18
Sample Preparation: 2015-08-18

Prep Method: S 3005A
Analyzed By: RR
Prepared By: RR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400684 - BG1-27A

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 8.52 | s.u. | 1 | 2.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 16 of 44
Rifle, CO

Sample: 400684 - BG1-27A

Laboratory: Lubbock

Analysis: SAR

QC Batch: 124151

Prep Batch: 104960

Analytical Method: USDA 60

Date Analyzed: 2015-08-18

Sample Preparation: 2015-08-18

Prep Method: N/A

Analyzed By: RR

Prepared By: RR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 1.21 | | 1 | 1.00 |

Sample: 400685 - BG2-27A

Laboratory: Lubbock

Analysis: Ca, Extractable

QC Batch: 124151

Prep Batch: 104960

Analytical Method: S 6010C

Date Analyzed: 2015-08-18

Sample Preparation: 2015-08-18

Prep Method: S 3005A

Analyzed By: RR

Prepared By: RR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | 222 | mg/Kg | 10 | 10.0 |

Sample: 400685 - BG2-27A

Laboratory: Lubbock

Analysis: Conductivity

QC Batch: 123747

Prep Batch: 104636

Analytical Method: SM 2510B

Date Analyzed: 2015-08-04

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 94.6 | uMHOS/cm | 1 | 0.00 |

Sample: 400685 - BG2-27A

Laboratory: Lubbock

Analysis: Mg, Extractable

QC Batch: 124151

Prep Batch: 104960

Analytical Method: S 6010C

Date Analyzed: 2015-08-18

Sample Preparation: 2015-08-18

Prep Method: S 3005A

Analyzed By: RR

Prepared By: RR

continued ...

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 17 of 44
Rifle, CO

sample 400685 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400685 - BG2-27A

| | | | | | |
|-------------|-----------------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | | | | |
| Analysis: | Na, Extractable | Analytical Method: | S 6010C | Prep Method: | S 3005A |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400685 - BG2-27A

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 8.90 | s.u. | 1 | 2.00 |

Sample: 400685 - BG2-27A

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | | | | |
| Analysis: | SAR | Analytical Method: | USDA 60 | Prep Method: | N/A |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 1.04 | | 1 | 1.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 18 of 44
Rifle, CO

Sample: 400686 - G33-27A

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Ca, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400686 - G33-27A

| | | | |
|-------------|--------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Conductivity | Analytical Method: | SM 2510B |
| QC Batch: | 123748 | Date Analyzed: | 2015-08-05 |
| Prep Batch: | 104637 | Sample Preparation: | |
| | | Prep Method: | N/A |
| | | Analyzed By: | RL |
| | | Prepared By: | RL |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 119 | uMHOS/cm | 1 | 0.00 |

Sample: 400686 - G33-27A

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Mg, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400686 - G33-27A

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Na, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 19 of 44
Rifle, CO

Sample: 400686 - G33-27A

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 8.22 | s.u. | 1 | 2.00 |

Sample: 400686 - G33-27A

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | | | | |
| Analysis: | SAR | Analytical Method: | USDA 60 | Prep Method: | N/A |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 1.54 | | 1 | 1.00 |

Sample: 400687 - CAP-28P

| | | | | | |
|-------------|-----------------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | | | | |
| Analysis: | Ca, Extractable | Analytical Method: | S 6010C | Prep Method: | S 3005A |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | 160 | mg/Kg | 10 | 10.0 |

Sample: 400687 - CAP-28P

| | | | | | |
|-------------|--------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | | | | |
| Analysis: | Conductivity | Analytical Method: | SM 2510B | Prep Method: | N/A |
| QC Batch: | 123748 | Date Analyzed: | 2015-08-05 | Analyzed By: | RL |
| Prep Batch: | 104637 | Sample Preparation: | | Prepared By: | RL |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 179 | uMHOS/cm | 1 | 0.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 20 of 44
Rifle, CO

Sample: 400687 - CAP-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Mg, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400687 - CAP-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Na, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | 192 | mg/Kg | 10 | 10.0 |

Sample: 400687 - CAP-28P

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 8.66 | s.u. | 1 | 2.00 |

Sample: 400687 - CAP-28P

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | SAR | Analytical Method: | USDA 60 |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | N/A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 3.12 | | 1 | 1.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 21 of 44
Rifle, CO

Sample: 400688 - BG1-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Ca, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | 157 | mg/Kg | 10 | 10.0 |

Sample: 400688 - BG1-28P

| | | | |
|-------------|--------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Conductivity | Analytical Method: | SM 2510B |
| QC Batch: | 123748 | Date Analyzed: | 2015-08-05 |
| Prep Batch: | 104637 | Sample Preparation: | |
| | | Prep Method: | N/A |
| | | Analyzed By: | RL |
| | | Prepared By: | RL |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 337 | uMHOS/cm | 1 | 0.00 |

Sample: 400688 - BG1-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Mg, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400688 - BG1-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Na, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | 433 | mg/Kg | 10 | 10.0 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 22 of 44
Rifle, CO

Sample: 400688 - BG1-28P

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 9.15 | s.u. | 1 | 2.00 |

Sample: 400688 - BG1-28P

Laboratory: Lubbock
Analysis: SAR Analytical Method: USDA 60 Prep Method: N/A
QC Batch: 124151 Date Analyzed: 2015-08-18 Analyzed By: RR
Prep Batch: 104960 Sample Preparation: 2015-08-18 Prepared By: RR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 6.91 | | 1 | 1.00 |

Sample: 400689 - BG2-28P

Laboratory: Lubbock
Analysis: Ca, Extractable Analytical Method: S 6010C Prep Method: S 3005A
QC Batch: 124151 Date Analyzed: 2015-08-18 Analyzed By: RR
Prep Batch: 104960 Sample Preparation: 2015-08-18 Prepared By: RR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | 113 | mg/Kg | 10 | 10.0 |

Sample: 400689 - BG2-28P

Laboratory: Lubbock
Analysis: Conductivity Analytical Method: SM 2510B Prep Method: N/A
QC Batch: 123748 Date Analyzed: 2015-08-05 Analyzed By: RL
Prep Batch: 104637 Sample Preparation: Prepared By: RL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 172 | uMHOS/cm | 1 | 0.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 23 of 44
Rifle, CO

Sample: 400689 - BG2-28P

| | | | | | |
|-------------|-----------------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 6010C | Prep Method: | S 3005A |
| Analysis: | Mg, Extractable | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| QC Batch: | 124151 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |
| Prep Batch: | 104960 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400689 - BG2-28P

| | | | | | |
|-------------|-----------------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 6010C | Prep Method: | S 3005A |
| Analysis: | Na, Extractable | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| QC Batch: | 124151 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |
| Prep Batch: | 104960 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400689 - BG2-28P

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 8.44 | s.u. | 1 | 2.00 |

Sample: 400689 - BG2-28P

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | USDA 60 | Prep Method: | N/A |
| Analysis: | SAR | Date Analyzed: | 2015-08-18 | Analyzed By: | RR |
| QC Batch: | 124151 | Sample Preparation: | 2015-08-18 | Prepared By: | RR |
| Prep Batch: | 104960 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | 1.69 | | 1 | 1.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 24 of 44
Rifle, CO

Sample: 400690 - BG3-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Ca, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|---------------------|------|------|--------------|-------|----------|------|
| Extractable Calcium | | 4 | 118 | mg/Kg | 10 | 10.0 |

Sample: 400690 - BG3-28P

| | | | |
|-------------|--------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Conductivity | Analytical Method: | SM 2510B |
| QC Batch: | 123748 | Date Analyzed: | 2015-08-05 |
| Prep Batch: | 104637 | Sample Preparation: | |
| | | Prep Method: | N/A |
| | | Analyzed By: | RL |
| | | Prepared By: | RL |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|----------------------|------|---------|--------------|----------|----------|------|
| Specific Conductance | | 1,3,4,5 | 177 | uMHOS/cm | 1 | 0.00 |

Sample: 400690 - BG3-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Mg, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------------------|------|------|--------------|-------|----------|------|
| Extractable Magnesium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400690 - BG3-28P

| | | | |
|-------------|-----------------|---------------------|------------|
| Laboratory: | Lubbock | | |
| Analysis: | Na, Extractable | Analytical Method: | S 6010C |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 |
| | | Prep Method: | S 3005A |
| | | Analyzed By: | RR |
| | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------------|------|------|--------------|-------|----------|------|
| Extractable Sodium | | 4 | <100 | mg/Kg | 10 | 10.0 |

Sample: 400690 - BG3-28P

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-----------|--------------|-------|----------|------|
| pH | | 1,2,3,4,5 | 7.68 | s.u. | 1 | 2.00 |

Sample: 400690 - BG3-28P

| | | | | | | |
|-------------|---------|---------------------|------------|--|--------------|-----|
| Laboratory: | Lubbock | | | | | |
| Analysis: | SAR | Analytical Method: | USDA 60 | | Prep Method: | N/A |
| QC Batch: | 124151 | Date Analyzed: | 2015-08-18 | | Analyzed By: | RR |
| Prep Batch: | 104960 | Sample Preparation: | 2015-08-18 | | Prepared By: | RR |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| SAR | | | <1.00 | | 1 | 1.00 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 26 of 44
Rifle, CO

Method Blanks

Method Blank (1) QC Batch: 123675

QC Batch: 123675 Date Analyzed: 2015-08-04 Analyzed By: HJ
Prep Batch: 104574 QC Preparation: 2015-08-03 Prepared By: HJ

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| DRO | | 1,2,3,4 | 24.1 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 32.5 | mg/Kg | 1 | 25.0 | 130 | 48.9 - 172 |

Method Blank (1) QC Batch: 123717

QC Batch: 123717 Date Analyzed: 2015-08-04 Analyzed By: MT
Prep Batch: 104612 QC Preparation: 2015-08-04 Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|---------------|-------|------|
| Benzene | | 1,2,3,4,5 | <0.00444 | mg/Kg | 0.02 |
| Toluene | | 1,2,3,4,5 | <0.00457 | mg/Kg | 0.02 |
| Ethylbenzene | | 1,2,3,4,5 | <0.00762 | mg/Kg | 0.02 |
| Xylene | | 1,2,3,4,5 | 0.00900 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 1.72 | mg/Kg | 1 | 2.00 | 86 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.00 | mg/Kg | 1 | 2.00 | 100 | 67.9 - 120 |

Method Blank (1) QC Batch: 123718

QC Batch: 123718 Date Analyzed: 2015-08-04 Analyzed By: MT
Prep Batch: 104612 QC Preparation: 2015-08-04 Prepared By: MT

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 27 of 44
Rifle, CO

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|---------------|-------|----|
| GRO | | 1,2,3,4 | <0.641 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 3 | 1.97 | mg/Kg | 1 | 2.00 | 98 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.98 | mg/Kg | 1 | 2.00 | 99 | 68.4 - 120 |

Method Blank (1) QC Batch: 123747

QC Batch: 123747 Date Analyzed: 2015-08-04 Analyzed By: RL
Prep Batch: 104636 QC Preparation: 2015-08-05 Prepared By: RL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|----------------------|------|---------|---------------|----------|----|
| Specific Conductance | | 1,3,4,5 | 2.38 | uMHOS/cm | |

Method Blank (1) QC Batch: 123748

QC Batch: 123748 Date Analyzed: 2015-08-05 Analyzed By: RL
Prep Batch: 104637 QC Preparation: 2015-08-04 Prepared By: RL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|----------------------|------|---------|---------------|----------|----|
| Specific Conductance | | 1,3,4,5 | 3.37 | uMHOS/cm | |

Method Blank (1) QC Batch: 124151

QC Batch: 124151 Date Analyzed: 2015-08-18 Analyzed By: RR
Prep Batch: 104960 QC Preparation: 2015-08-18 Prepared By: PM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------------------|------|------|---------------|-------|----|
| Extractable Magnesium | | 4 | <0.224 | mg/Kg | 10 |

Method Blank (1)

QC Batch: 124151

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|---------------------|------|------|---------------|-------|----|
| Extractable Calcium | | 4 | <0.106 | mg/Kg | 10 |

Method Blank (1)

QC Batch: 124151

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------------|------|------|---------------|-------|----|
| Extractable Sodium | | 4 | <0.197 | mg/Kg | 10 |

Duplicates

Duplicates (1) Duplicated Sample: 400685

QC Batch: 123707
Prep Batch:

Date Analyzed:
QC Preparation:

Analyzed By:
Prepared By:

| Param | | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------|-----------|---------------------|------------------|-------|----------|-----|--------------|
| pH | 1,2,3,4,5 | 8.85 | 8.90 | s.u. | 1 | 1 | 20 |

Duplicates (1) Duplicated Sample: 400690

QC Batch: 123708
Prep Batch:

Date Analyzed:
QC Preparation:

Analyzed By:
Prepared By:

| Param | | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------|-----------|---------------------|------------------|-------|----------|-----|--------------|
| pH | 1,2,3,4,5 | 7.70 | 7.68 | s.u. | 1 | 0 | 20 |

Duplicates (1) Duplicated Sample: 400685

QC Batch: 123747
Prep Batch: 104636

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-05

Analyzed By: RL
Prepared By: RL

| Param | | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|----------------------|---------|---------------------|------------------|----------|----------|-----|--------------|
| Specific Conductance | 1,3,4,5 | 95.6 | 94.6 | uMHOS/cm | 1 | 1 | 20 |

Duplicates (1) Duplicated Sample: 400690

QC Batch: 123748
Prep Batch: 104637

Date Analyzed: 2015-08-05
QC Preparation: 2015-08-04

Analyzed By: RL
Prepared By: RL

| Param | | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|----------------------|---------|---------------------|------------------|----------|----------|-----|--------------|
| Specific Conductance | 1,3,4,5 | 185 | 177 | uMHOS/cm | 1 | 4 | 20 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 31 of 44
Rifle, CO

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 123675
Prep Batch: 104574

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-03

Analyzed By: HJ
Prepared By: HJ

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 641 | mg/Kg | 1 | 500 | 24.1 | 123 | 60.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 547 | mg/Kg | 1 | 500 | 24.1 | 104 | 60.9 - 130 | 16 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 3 | 31.4 | 29.5 | mg/Kg | 1 | 25.0 | 126 | 118 | 48.9 - 172 |

Laboratory Control Spike (LCS-1)

QC Batch: 123717
Prep Batch: 104612

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-04

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,5 | 1.73 | mg/Kg | 1 | 2.00 | <0.00444 | 86 | 71.4 - 120 |
| Toluene | | 1,2,3,4,5 | 1.79 | mg/Kg | 1 | 2.00 | <0.00457 | 90 | 71.8 - 120 |
| Ethylbenzene | | 1,2,3,4,5 | 1.79 | mg/Kg | 1 | 2.00 | <0.00762 | 90 | 71.1 - 120 |
| Xylene | | 1,2,3,4,5 | 5.36 | mg/Kg | 1 | 6.00 | 0.009 | 89 | 72.5 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,5 | 1.76 | mg/Kg | 1 | 2.00 | <0.00444 | 88 | 71.4 - 120 | 2 | 20 |
| Toluene | | 1,2,3,4,5 | 1.81 | mg/Kg | 1 | 2.00 | <0.00457 | 90 | 71.8 - 120 | 1 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 1.82 | mg/Kg | 1 | 2.00 | <0.00762 | 91 | 71.1 - 120 | 2 | 20 |
| Xylene | | 1,2,3,4,5 | 5.46 | mg/Kg | 1 | 6.00 | 0.009 | 91 | 72.5 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 32 of 44
Rifle, CO

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 5 | 1.89 | 1.74 | mg/Kg | 1 | 2.00 | 94 | 87 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 1.74 | 1.79 | mg/Kg | 1 | 2.00 | 87 | 90 | 67.9 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 123718
Prep Batch: 104612

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-04

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 16.8 | mg/Kg | 1 | 20.0 | <0.641 | 84 | 60.3 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1,2,3,4 | 17.8 | mg/Kg | 1 | 20.0 | <0.641 | 89 | 60.3 - 120 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 3 | 1.77 | 1.86 | mg/Kg | 1 | 2.00 | 88 | 93 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3 | 2.10 | 2.10 | mg/Kg | 1 | 2.00 | 105 | 105 | 68.4 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Extractable Magnesium | | 4 | 49.9 | mg/Kg | 1 | 50.0 | <0.224 | 100 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Extractable Magnesium | | 4 | 47.4 | mg/Kg | 1 | 50.0 | <0.224 | 95 | 85 - 115 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 33 of 44
Rifle, CO

Laboratory Control Spike (LCS-1)

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Extractable Calcium | | 4 | 49.6 | mg/Kg | 1 | 50.0 | <0.106 | 99 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Extractable Calcium | | 4 | 46.6 | mg/Kg | 1 | 50.0 | <0.106 | 93 | 85 - 115 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Extractable Sodium | | 4 | 51.0 | mg/Kg | 1 | 50.0 | <0.197 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Extractable Sodium | | 4 | 48.1 | mg/Kg | 1 | 50.0 | <0.197 | 96 | 85 - 115 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 34 of 44
Rifle, CO

Matrix Spikes

Matrix Spike (xMS-1) Spiked Sample: 400658

QC Batch: 123675
Prep Batch: 104574

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-03

Analyzed By: HJ
Prepared By: HJ

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1,2,3,4 | 558 | mg/Kg | 1 | 500 | 8.41 | 110 | 47.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1,2,3,4 | 523 | mg/Kg | 1 | 500 | 8.41 | 103 | 47.9 - 130 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Tricosane | 3 | 34.5 | 34.1 | mg/Kg | 1 | 25 | 138 | 136 | 48.9 - 172 |

Matrix Spike (MS-1) Spiked Sample: 400677

QC Batch: 123717
Prep Batch: 104612

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-04

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,5 | 1.46 | mg/Kg | 2 | 2.00 | <0.00888 | 73 | 63.9 - 132 |
| Toluene | | 1,2,3,4,5 | 1.56 | mg/Kg | 2 | 2.00 | <0.00914 | 78 | 64 - 141 |
| Ethylbenzene | | 1,2,3,4,5 | 1.56 | mg/Kg | 2 | 2.00 | <0.0152 | 78 | 66.7 - 148 |
| Xylene | | 1,2,3,4,5 | 4.72 | mg/Kg | 2 | 6.00 | 0.0151 | 78 | 63.6 - 145 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1,2,3,4,5 | 1.46 | mg/Kg | 2 | 2.00 | <0.00888 | 73 | 63.9 - 132 | 0 | 20 |
| Toluene | | 1,2,3,4,5 | 1.57 | mg/Kg | 2 | 2.00 | <0.00914 | 78 | 64 - 141 | 1 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 1.58 | mg/Kg | 2 | 2.00 | <0.0152 | 79 | 66.7 - 148 | 1 | 20 |
| Xylene | | 1,2,3,4,5 | 4.76 | mg/Kg | 2 | 6.00 | 0.0151 | 79 | 63.6 - 145 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 35 of 44
Rifle, CO

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 5 | 1.46 | 1.49 | mg/Kg | 2 | 2 | 73 | 74 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 1.65 | 1.65 | mg/Kg | 2 | 2 | 82 | 82 | 67.9 - 120 |

Matrix Spike (MS-1) Spiked Sample: 400677

QC Batch: 123718
Prep Batch: 104612

Date Analyzed: 2015-08-04
QC Preparation: 2015-08-04

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 15.1 | mg/Kg | 2 | 20.0 | <1.28 | 76 | 25 - 139 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1,2,3,4 | 12.9 | mg/Kg | 2 | 20.0 | <1.28 | 64 | 25 - 139 | 16 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------------|-----------------|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 3 | 1.50 | 1.19 | mg/Kg | 2 | 2 | 75 | 60 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3 | 1.96 | 1.73 | mg/Kg | 2 | 2 | 98 | 86 | 68.4 - 120 |

Matrix Spike (xMS-1) Spiked Sample: 400305

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Extractable Magnesium | | 4 | 5300 | mg/Kg | 1 | 5000 | 14.5 | 106 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Extractable Magnesium | | 4 | 5000 | mg/Kg | 1 | 5000 | 14.5 | 100 | 75 - 125 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 36 of 44
Rifle, CO

Matrix Spike (xMS-1) Spiked Sample: 400305

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Extractable Calcium | | 4 | 5230 | mg/Kg | 1 | 5000 | 225 | 100 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Extractable Calcium | | 4 | 5030 | mg/Kg | 1 | 5000 | 225 | 96 | 75 - 125 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (xMS-1) Spiked Sample: 400305

QC Batch: 124151
Prep Batch: 104960

Date Analyzed: 2015-08-18
QC Preparation: 2015-08-18

Analyzed By: RR
Prepared By: PM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Extractable Sodium | | 4 | 5090 | mg/Kg | 1 | 5000 | 857 | 85 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Extractable Sodium | | 4 | 5780 | mg/Kg | 1 | 5000 | 857 | 98 | 75 - 125 | 13 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

| | | | | | | | | |
|------------------|------|---------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| QC Batch: 123675 | | | Date Analyzed: 2015-08-04 | | | | Analyzed By: HJ | |
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | | 1,2,3,4 | mg/Kg | 500 | 546 | 109 | 80 - 120 | 2015-08-04 |

Standard (CCV-2)

| | | | | | | | | |
|------------------|------|---------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| QC Batch: 123675 | | | Date Analyzed: 2015-08-04 | | | | Analyzed By: HJ | |
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | | 1,2,3,4 | mg/Kg | 500 | 547 | 109 | 80 - 120 | 2015-08-04 |

Standard (CCV-1)

| | | | | | | | | |
|------------------|------|-----------|----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| QC Batch: 123707 | | | Date Analyzed: | | | | Analyzed By: | |
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| pH | | 1,2,3,4,5 | s.u. | 7.00 | 6.98 | 100 | 98.6 - 101.4 | 2015-08-04 |

Standard (CCV-1)

| | | | | | | | | |
|------------------|------|-----------|----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| QC Batch: 123708 | | | Date Analyzed: | | | | Analyzed By: | |
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| pH | | 1,2,3,4,5 | s.u. | 7.00 | 7.00 | 100 | 98.6 - 101.4 | 2015-08-04 |

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 38 of 44
Rifle, CO

Standard (CCV-1)

QC Batch: 123717

Date Analyzed: 2015-08-04

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0846 | 85 | 80 - 120 | 2015-08-04 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0867 | 87 | 80 - 120 | 2015-08-04 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0874 | 87 | 80 - 120 | 2015-08-04 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.264 | 88 | 80 - 120 | 2015-08-04 |

Standard (CCV-2)

QC Batch: 123717

Date Analyzed: 2015-08-04

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0906 | 91 | 80 - 120 | 2015-08-04 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0885 | 88 | 80 - 120 | 2015-08-04 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0887 | 89 | 80 - 120 | 2015-08-04 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.265 | 88 | 80 - 120 | 2015-08-04 |

Standard (CCV-3)

QC Batch: 123717

Date Analyzed: 2015-08-04

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0819 | 82 | 80 - 120 | 2015-08-04 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0839 | 84 | 80 - 120 | 2015-08-04 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0838 | 84 | 80 - 120 | 2015-08-04 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.252 | 84 | 80 - 120 | 2015-08-04 |

Standard (CCV-1)

QC Batch: 123718

Date Analyzed: 2015-08-04

Analyzed By: MT

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 39 of 44
Rifle, CO

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 1.06 | 106 | 80 - 120 | 2015-08-04 |

Standard (CCV-2)

QC Batch: 123718

Date Analyzed: 2015-08-04

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 1.00 | 100 | 80 - 120 | 2015-08-04 |

Standard (CCV-3)

QC Batch: 123718

Date Analyzed: 2015-08-04

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.977 | 98 | 80 - 120 | 2015-08-04 |

Standard (ICV-1)

QC Batch: 123747

Date Analyzed: 2015-08-04

Analyzed By: RL

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|---------|----------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Specific Conductance | | 1,3,4,5 | uMHOS/cm | 1410 | 1330 | 94 | 90 - 110 | 2015-08-04 |

Standard (CCV-1)

QC Batch: 123747

Date Analyzed: 2015-08-04

Analyzed By: RL

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 40 of 44
Rifle, CO

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|---------|----------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Specific Conductance | | 1,3,4,5 | uMHOS/cm | 1410 | 1360 | 96 | 90 - 110 | 2015-08-04 |

Standard (ICV-1)

QC Batch: 123748

Date Analyzed: 2015-08-05

Analyzed By: RL

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|---------|----------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Specific Conductance | | 1,3,4,5 | uMHOS/cm | 1410 | 1390 | 99 | 90 - 110 | 2015-08-05 |

Standard (CCV-1)

QC Batch: 123748

Date Analyzed: 2015-08-05

Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|---------|----------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Specific Conductance | | 1,3,4,5 | uMHOS/cm | 1410 | 1390 | 98 | 90 - 110 | 2015-08-05 |

Standard (ICV-1)

QC Batch: 124151

Date Analyzed: 2015-08-18

Analyzed By: RR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Extractable Magnesium | | 4 | mg/Kg | 25.0 | 25.2 | 101 | 90 - 110 | 2015-08-18 |

Standard (ICV-1)

QC Batch: 124151

Date Analyzed: 2015-08-18

Analyzed By: RR

Report Date: August 18, 2015
452711-004

Work Order: 15080303
Boies 27A

Page Number: 41 of 44
Rifle, CO

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Extractable Calcium | | 4 | mg/Kg | 25.0 | 25.4 | 102 | 90 - 110 | 2015-08-18 |

Standard (ICV-1)

QC Batch: 124151

Date Analyzed: 2015-08-18

Analyzed By: RR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Extractable Sodium | | 4 | mg/Kg | 25.0 | 25.4 | 102 | 90 - 110 | 2015-08-18 |

Standard (CCV-1)

QC Batch: 124151

Date Analyzed: 2015-08-18

Analyzed By: RR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Extractable Magnesium | | 4 | mg/Kg | 25.0 | 26.3 | 105 | 90 - 110 | 2015-08-18 |

Standard (CCV-1)

QC Batch: 124151

Date Analyzed: 2015-08-18

Analyzed By: RR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Extractable Calcium | | 4 | mg/Kg | 25.0 | 26.1 | 104 | 90 - 110 | 2015-08-18 |

Standard (CCV-1)

QC Batch: 124151

Date Analyzed: 2015-08-18

Analyzed By: RR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Extractable Sodium | | 4 | mg/Kg | 25.0 | 26.0 | 104 | 90 - 110 | 2015-08-18 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |

| F | Description |
|---|-------------|
|---|-------------|

| | |
|---|---|
| U | The analyte is not detected above the SDL |
|---|---|

Result Comments

- 1 dilution due to hydrocarbons.
- 2 Sample dilution due to turbidity.
- 3 dilution due to hydrocarbons.
- 4 Sample dilution due to hydrocarbons.
- 5 dilution due to hydrocarbons.
- 6 Sample dilution due to hydrocarbons.
- 7 dilution due to hydrocarbons.
- 8 Sample dilution due to hydrocarbons.
- 9 dilution due to hydrocarbons.
- 10 Sample dilution due to hydrocarbons.

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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