

State of Colorado
Oil and Gas Conservation Commission



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

RECEIVED
NOV 02 2011
COGCC
Oil & Gas Conservation Commission
 Spill Complaint
 Inspection NOAV
Tracking No: 2215571

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.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

| | |
|---|---|
| OGCC Operator Number: <u>100122</u> | Contact Name and Telephone: <u>Lee Fyock</u> |
| Name of Operator: <u>Gunnison Energy Corporation</u> | No: <u>303-293-2913</u> |
| Address: <u>1801 Broadway, Suite 1200</u> | Fax: <u>303-296-4555</u> |
| City: <u>Denver</u> State: <u>Co</u> Zip: <u>80202</u> | |
| API Number: <u>05-051-06074-00</u> County: <u>Gunnison</u> | |
| Facility Name: <u>Hotchkiss 1-34 Pit</u> Facility Number: <u>285417</u> | |
| Well Name: <u>Hotchkiss 1290</u> Well Number: _____ | |
| Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SW/SE 12S 90W, 6th</u> Latitude: _____ Longitude: _____ | |

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced Water - Remediation Tracking No. - 5998, Spill Tracking No. 2215571

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.): Ranching

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Previously ID'd on Form 19

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: |
|--|-------------------|-----------------|
| <input type="checkbox"/> Soils | _____ | _____ |
| <input type="checkbox"/> Vegetation | _____ | _____ |
| <input type="checkbox"/> Groundwater | _____ | _____ |
| <input type="checkbox"/> Surface Water | _____ | _____ |

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
See prior Form 27 submittal for this section.

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:

REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

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

Submitted under Tracking No. 2215571. No impacts to GW. See attached investigation report November 2, 2011, Hotchkiss 1-34 Production Pit Closure, Final Field Summary Report, Weston WO# 14798.001.003.0020.

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. See previous Form 27 submittal.

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 [x] N If yes, describe:

See attached report, November 2, 2011, Hotchkiss 1-34 Production Pit Closure, Final Field Summary Report, Weston WO# 14798.001.003.0020.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.): None to be excavated. See attached report.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 9/12/2011 Date Site Investigation Completed: 10/13/2011 Date Remediation Plan Submitted: TBD Remediation Start Date: TBD Anticipated Completion Date: TBD Actual Completion Date:

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

Print Name: Lee Fyock Signed: [Signature] Title: Director of Environment and Permitting Date: 11/2/11

OGCC Approved: [Signature] for Alex Fischer Title: West Env. Supervisor Date: 11/3/11



Weston Solutions, Inc.
1435 Garrison Street, Ste. 100
Lakewood, Colorado 80215
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November 2, 2011

Mr. Lee Fyock
Environmental Manager
Gunnison Energy Corp.
1801 Broadway, Suite 1200
Denver, CO 80202

Subject: Hotchkiss 1-34 Production Pit Closure
Final Field Summary Report
Weston WO# 14798.001.003.0020
COGCC Remediation No. 5998
COGCC Spill Tracking No. 2215571

Dear Lee:

On behalf of Gunnison Energy Corporation (GEC) Weston Solutions, Inc. (Weston) is pleased to provide this summary report of field activities in support of the closure of the 1-34 pit. The pit has reportedly been out of service since February 2011. GEC prepared and submitted a Form 27 Site Investigation and Remediation Workplan to the COGCC on July 20, 2011 and this report is intended to summarize the field work and analytical results referenced in the Workplan as approved August 11, 2011.

Phase I Fieldwork – Weston mobilized to the site of the 1-34 pit to collect soil and water samples as prescribed in the approved Workplan on September 12, 2011. At the time of the fieldwork, the bottom of the liner and approximately 8 inches of sediment remained in the dewatered pit. GEC personnel removed sediment and cut away the liner in the location of the proposed sample borings. When the liner was cut in locations SB-02 and SB-03, water from beneath the liner flowed into the remaining sediment and carried some of the sediment into the sampling location where grab water samples SB02-0911 and SB03-0911 were collected. Locations SB-01, SB-04, SB-05, and SB-06 did not contain water. During soil boring of locations SB-02 through SB-05, refusal was encountered at various depths due to a very hard shale layer. As a result, soil sample intervals were altered as necessary (no soil sample was collected in SB-02, the 0 to 1 ft interval was sampled in SB-03, and the 1 to 2 and 2 to 3 foot (ft.) intervals were sampled in SB-04 and SB-05). Sample locations SB-01 and SB-06 were collected as specified in the Workplan (the 1 to 2 and 3 to 4 ft intervals were sampled) as background and down gradient locations, respectively. Sample locations are shown on Figure 1.

All sample intervals were screened with a photoionization detector (PID) calibrated prior to soil boring with 100 parts per million Isobutylene. In addition, the ambient air was



screened during work activities and the peak reading recorded by the PID during all screening was 0.4 relative response units.

All samples were placed in laboratory supplied containers and placed on ice to cool to 4° C for transport to the laboratory under proper chain of custody procedures. Due to the boring refusal noted above some soil samples were submitted with less volume than requested by the laboratory but all samples were analyzed for COGCC Table 910-1 constituents by Accutest Analytical Laboratory of Wheat Ridge, CO (Accutest).

Phase I Analytical Data Summary – Based on comparison of the Analytical Data Report provided by Accutest (Attachment A) to COGCC Table 910-1 standards the water collected from beneath the liner of the pit in locations SB-02 and SB-03 exceeded the standard for Benzene (5 µg/L) at levels reported at 9.1 and 10.1 µg/L, respectively. An additional exceedance of the Sodium Adsorption Ratio standard for soil (<12) was reported at a value of 12.4 in the soil sample collected from SB-05 from the 1 to 2 ft interval. Arsenic was also detected in several soil samples above the COGCC Table 910-1 standard but due to the fact that the highest of the detections were in background and downgradient samples, the arsenic appears to be naturally occurring and not a result of the pit activities. No other exceedances of COGCC Table 910-1 standards were observed or reported. All analytical data is summarized in Table 1.

Phase II Fieldwork – As a result of the exceedances of the benzene standard in the two water samples collected on September 12, 2011 Weston returned to the 1-34 pit on October 13, 2011 with a geoprobe/solid stem auger drilling rig in order to ascertain whether or not the water samples were representative of groundwater conditions. In addition, consistent with COGCC requirements, GEC reported the possible release to Alex Fischer (COGCC) on September 20, 2011.

Two soil borings, SB-07 and SB-08, were advanced to depths of 13.5 and 22 feet below ground surface (bgs), respectively. SB-07 was installed near Phase I sample location SB-02 in the bottom of the pit. The geoprobe encountered refusal at the surface and the boring was advanced using solid stem auger preventing a representative soil sample from being collected. The auger was slowly advanced through very dry, hard, white shale until auger refusal was encountered at 13.5 ft bgs. SB-08 was installed outside of the well pad fence line southeast of the pit at a point approximately 16 ft higher in elevation than the bottom of the pit. The auger advanced relatively easily to 18.5 ft bgs through a light brown sandy clay. The hard, dry, white shale was encountered at 18.5 ft bgs and the auger advancement slowed considerably halting at 22 ft bgs. No water was encountered during drilling or when gauged for water after being allowed to remain open for approximately 30 minutes and no soil samples were collected.

The shale encountered in boring SB-07 appears to form the bottom of the pit and acts as an aquitard to downward fluid migration. Photos are available as Attachment B. Melt



water from a recent snowfall event was seen ponded 2-3 inches deep in the Northwest corner of the pit. No sheen was observed. A sample was collected of this water to characterize water still remaining on top of the shale layer. The pit sample (water standing in the pit) was collected as previously described and transported to Accutest. The onsite Weston geologist also conducted a site reconnaissance in order to locate possible outcrops or seeps related to the shale layer that might create a pathway for contaminant migration. No active seeps were observed though water was ponded in an area used by cattle to cross the drainage, but was most likely a result of recent precipitation.

Phase II Analytical Data Summary – Based on comparison of the Analytical Data Report provided by Accutest (Attachment A) to COGCC Table 910-1 standards the water collected from the 1-34 pit no exceedances of COGCC Table 910-1 standards were observed or reported. All analytical data is summarized in Table 1.

Conclusions and Recommendations – Based on the data observed during two field sampling efforts Weston believes no groundwater exists at the 1-34 pit location. Water that infiltrated uphill of the pit over the years of operation encountered an aquitard in the shale layer as well as the pit liner causing water to collect beneath the liner. Weston believes the benzene exceedances reported in the water samples collected from SB-02 and SB-03 were the result of the trapped water mixing with the remaining sediment when the liner was cut to allow for sampling. Additional sampling and observations indicate that the remaining sediment has been removed and the water remaining in the pit does not exceed COGCC Table 910-1 standards and not representative of groundwater. Therefore, Weston recommends the pit be backfilled to prevent the collection and infiltration of surface water and regarded to allow surface water from uphill to flow past the pit location.



If you have any questions about this report please give me a call at (303) 729-6149. We look forward to our continued working relationship with you on this important project.

Sincerely,
Weston Solutions, Inc.

A handwritten signature in black ink, appearing to read "Ken Miller".

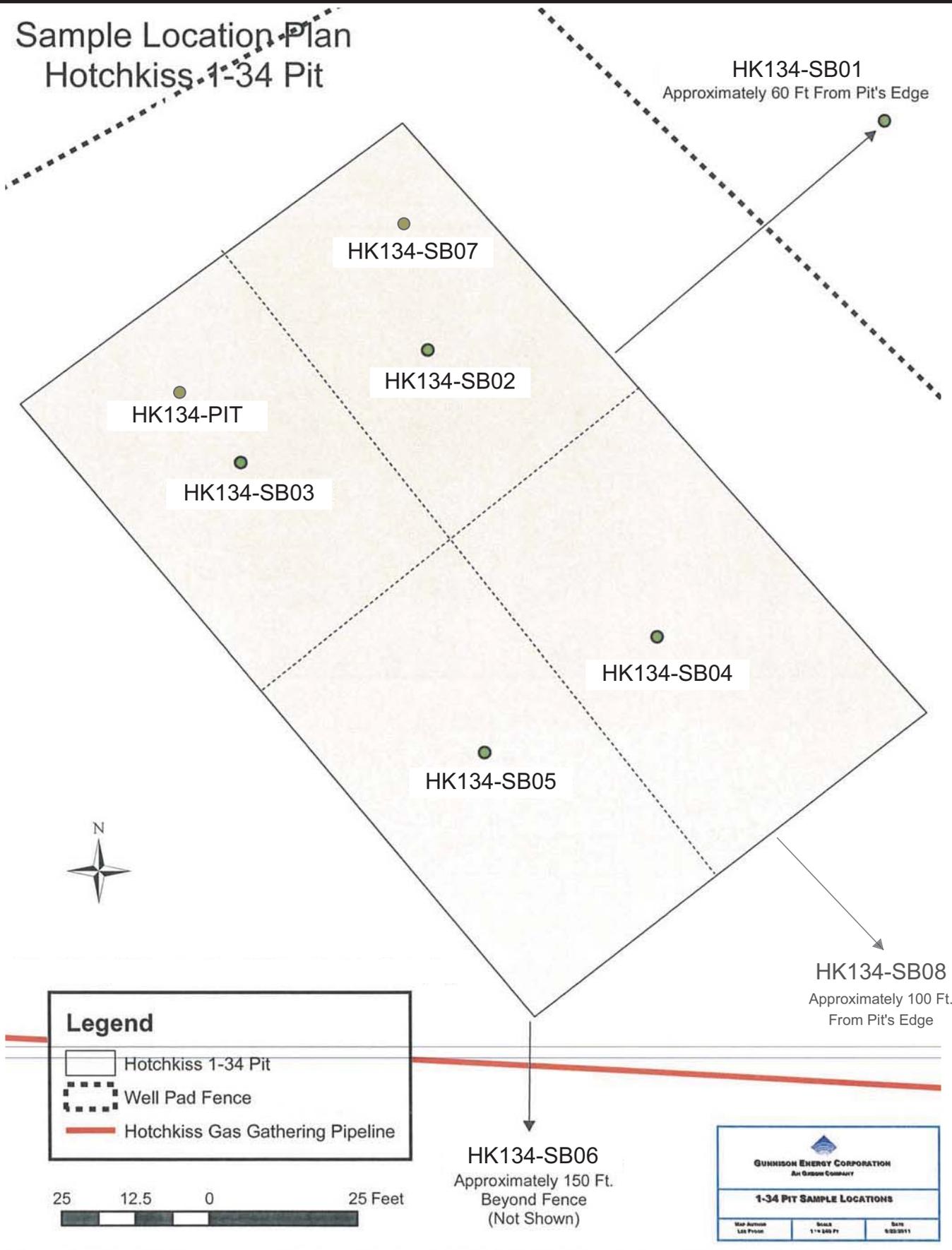
Kenneth E. Miller, P.G.
Sr. Project Manager

Attachments:

- Figures and Tables
- A – Analytical Data Reports
- B – Photo Log

Cc: Missy Warner, Weston Solutions, Inc.
File

Sample Location Plan Hotchkiss 1-34 Pit



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Pit 1-34 Closure Fieldwork Summary Report
Gunnison Energy Corporation, Hotchkiss, Colorado

SAMPLE LOCATIONS

Figure

1

Table 1
Analytical Results
Gunnison Energy Corporation
Hotchkiss 1-34 Production Pit Closure

| Contaminant of Concern | COGCC Table 910-1 Standards | Name | SB-01 | | SB-02 | SB-03 | | SB-04 | |
|---|-----------------------------|----------------|---------------|-------------|-------------|---------------|-------------|---------------|---------------|
| | | Location | Background | | NE Pit | NW Pit | | SE Pit | |
| | | Depth | 1-2 feet | 3-4 feet | Water | 0-1 foot | Water | 1-2 feet | 2-3 feet |
| Organic Compounds in Soil | | | | | | | | | |
| Total Petroleum Hydrocarbons | 500 | mg/kg | 14.3 J | 15.1 | NA | 12.3 J | NA | 15.3 J | 12.8 J |
| Benzene | 0.17 | mg/kg | <0.061 | <0.065 | NA | <0.086 | NA | <0.070 | <0.070 |
| Toluene | 85 | mg/kg | <0.120 | <0.130 | NA | <0.170 | NA | <0.140 | <0.140 |
| Ethylbenzene | 100 | mg/kg | <0.120 | <0.130 | NA | <0.170 | NA | <0.140 | <0.140 |
| Xylenes (total) | 175 | mg/kg | <0.240 | <0.260 | NA | <0.340 | NA | <0.280 | <0.280 |
| Acenaphthene | 1000 | mg/kg | <0.037 | <0.015 | NA | <0.0092 | NA | <0.0081 | <0.0080 |
| Anthracene | 1000 | mg/kg | <0.037 | <0.015 | NA | <0.0092 | NA | <0.0081 | <0.0080 |
| Benzo(a)anthracene | 0.22 | mg/kg | <0.093 | <0.038 | NA | <0.023 | NA | <0.020 | <0.020 |
| Benzo(b)fluoranthene | 0.22 | mg/kg | <0.093 | <0.038 | NA | <0.023 | NA | <0.020 | <0.020 |
| Benzo(k)fluoranthene | 2.2 | mg/kg | <0.093 | <0.038 | NA | <0.023 | NA | <0.020 | <0.020 |
| Benzo(a)pyrene | 0.022 | mg/kg | <0.093 | <0.038 | NA | <0.023 | NA | <0.020 | <0.020 |
| Chrysene | 22 | mg/kg | <0.093 | <0.038 | NA | <0.023 | NA | <0.020 | <0.020 |
| Dibenzo(a,h)anthracene | 0.022 | mg/kg | <0.093 | <0.038 | NA | <0.023 | NA | <0.020 | <0.020 |
| Fluoranthene | 1000 | mg/kg | <0.037 | <0.015 | NA | <0.0092 | NA | <0.0081 | <0.0080 |
| Fluorene | 1000 | mg/kg | <0.037 | <0.015 | NA | <0.0092 | NA | <0.0081 | <0.0080 |
| Indeno(1,2,3-cd)pyrene | 0.22 | mg/kg | <0.110 | <0.046 | NA | <0.028 | NA | <0.024 | <0.024 |
| Naphthalene | 23 | mg/kg | <0.037 | <0.015 | NA | <0.0092 | NA | <0.0081 | <0.0080 |
| Pyrene | 1000 | mg/kg | <0.037 | <0.015 | NA | <0.0092 | NA | <0.0081 | <0.0080 |
| Organic Compounds in Groundwater | | | | | | | | | |
| Benzene | 5 | µg/l | NA | NA | 9.1 | NA | 10.1 | NA | NA |
| Toluene | 560 to 1000 | µg/l | NA | NA | <2.0 | NA | <2.0 | NA | NA |
| Ethylbenzene | 700 | µg/l | NA | NA | 10.1 | NA | 14.9 | NA | NA |
| Xylenes (total) | 1400 to 10000 | µg/l | NA | NA | 14.1 | NA | 15.5 | NA | NA |
| Inorganics in Soil | | | | | | | | | |
| Electrical Conductivity (EC) | <4 or 2x background | mmhos/cm | 0.0499 | 0.0337 | NA | 2.02 | NA | 2.79 | 1.31 |
| Sodium Adsorption Ratio (SAR) | <12 | - | 0.360 | 0.442 | NA | 10.2 | NA | 9.04 | 8.91 |
| pH | 6-9 | Standard Units | 7.72 | 8.07 | NA | 8.21 | NA | 7.71 | 8.72 |
| Inorganics in Groundwater | | | | | | | | | |
| Total Dissolved Solids (TDS) | <1.25 x background | mg/l | NA | NA | 3000 | NA | 3350 | NA | NA |
| Chlorides | <1.25 x background | mg/l | NA | NA | 1440 | NA | 1740 | NA | NA |
| Sulfates | <1.25 x background | mg/l | NA | NA | 71.9 | NA | 71.9 | NA | NA |
| Metals in Soil | | | | | | | | | |
| Arsenic | 0.39 | mg/kg | 1.5 | 0.87 | NA | <0.57 | NA | <0.49 | 0.63 |
| Barium | 15000 | mg/kg | 187 | 226 | NA | 221 | NA | 182 | 241 |
| Cadmium | 70 | mg/kg | <1.1 | <1.1 | NA | <1.4 | NA | <1.2 | <5.8 |
| Chromium (III) | 120000 | mg/kg | 4.4 | 4.0 | NA | 2.4 | NA | <1.7 | <6.3 |
| Chromium (VI) | 23 | mg/kg | 0.59 | 0.53 | NA | <0.54 | NA | <0.48 | <0.48 |
| Copper | 3100 | mg/kg | 9.6 | 5.4 | NA | 14.0 | NA | 28.0 | 19.7 |
| Lead | 400 | mg/kg | 8.7 | 8.2 | NA | 7.5 | NA | 9.1 | <29 |
| Mercury | 23 | mg/kg | <0.10 | <0.10 | NA | <0.14 | NA | <0.12 | <0.12 |
| Nickel | 1600 | mg/kg | 6.2 | 5.3 | NA | <4.3 | NA | <3.6 | <17 |
| Selenium | 390 | mg/kg | <5.4 | <5.4 | NA | <7.1 | NA | <6.1 | <29 |
| Silver | 390 | mg/kg | <3.2 | <3.2 | NA | <4.3 | NA | <3.6 | <17 |
| Zinc | 23000 | mg/kg | 39.8 | 37.4 | NA | 33.7 | NA | 25.5 | 42.7 |

COGCC-Colorado Oil and Gas Conservation Commission

mg/kg- milligrams per kilogram

mg/l-milligrams per liter

J-Value estimateed

BOLD-indicates analyte detected in sample

NA- Not Analyzed

Detection limit may exceed standard

µg/l- micrograms per liter

Analyte exceeds standard in sample

mmhos/cm- millimhos per centimeter

Table 1
Analytical Results
Gunnison Energy Corporation
Hotchkiss 1-34 Production Pit Closure

| Contaminant of Concern | COGCC Table 910-1 Standards | Name | SB-05 | | SB-06 | | Pit |
|---|-----------------------------|----------------|---------------|---------------|---------------|-------------|--------|
| | | Location | SW Pit | | Downgradient | | In Pit |
| | | Depth | 1-2 feet | 2-3 feet | 1-2 feet | 3-4 feet | Water |
| Organic Compounds in Soil | | | | | | | |
| Total Petroleum Hydrocarbons | 500 | mg/kg | 12.7 J | 11.0 J | 13.4 J | 19.6 | NA |
| Benzene | 0.17 | mg/kg | <0.076 | <0.068 | <0.062 | <0.062 | NA |
| Toluene | 85 | mg/kg | <0.150 | <0.140 | <0.120 | <0.120 | NA |
| Ethylbenzene | 100 | mg/kg | <0.150 | <0.140 | <0.120 | <0.120 | NA |
| Xylenes (total) | 175 | mg/kg | <0.300 | <0.270 | <0.250 | <0.250 | NA |
| Acenaphthene | 1000 | mg/kg | <0.0084 | <0.0079 | <0.015 | <0.015 | NA |
| Anthracene | 1000 | mg/kg | <0.0084 | <0.0079 | <0.015 | <0.015 | NA |
| Benzo(a)anthracene | 0.22 | mg/kg | <0.021 | <0.020 | <0.037 | <0.038 | NA |
| Benzo(b)fluoranthene | 0.22 | mg/kg | <0.021 | <0.020 | <0.037 | <0.038 | NA |
| Benzo(k)fluoranthene | 2.2 | mg/kg | <0.021 | <0.020 | <0.037 | <0.038 | NA |
| Benzo(a)pyrene | 0.022 | mg/kg | <0.021 | <0.020 | <0.037 | <0.038 | NA |
| Chrysene | 22 | mg/kg | <0.021 | <0.020 | <0.037 | <0.038 | NA |
| Dibenzo(a,h)anthracene | 0.022 | mg/kg | <0.021 | <0.020 | <0.037 | <0.038 | NA |
| Fluoranthene | 1000 | mg/kg | <0.0084 | <0.0079 | <0.015 | <0.015 | NA |
| Fluorene | 1000 | mg/kg | <0.0084 | <0.0079 | <0.015 | <0.015 | NA |
| Indeno(1,2,3-cd)pyrene | 0.22 | mg/kg | <0.025 | <0.024 | <0.045 | <0.046 | NA |
| Naphthalene | 23 | mg/kg | <0.0084 | <0.0079 | <0.015 | <0.015 | NA |
| Pyrene | 1000 | mg/kg | <0.0084 | <0.0079 | <0.015 | <0.015 | NA |
| Organic Compounds in Groundwater | | | | | | | |
| Benzene | 5 | µg/l | NA | NA | NA | NA | <1.0 |
| Toluene | 560 to 1000 | µg/l | NA | NA | NA | NA | <2.0 |
| Ethylbenzene | 700 | µg/l | NA | NA | NA | NA | <2.0 |
| Xylenes (total) | 1400 to 10000 | µg/l | NA | NA | NA | NA | <4.0 |
| Inorganics in Soil | | | | | | | |
| Electrical Conductivity (EC) | <4 or 2x background | mmhos/cm | 2.43 | 1.26 | 0.0562 | 0.0523 | NA |
| Sodium Adsorption Ratio (SAR) | <12 | - | 12.4 | 8.80 | 0.545 | 0.603 | NA |
| pH | 6-9 | Standard Units | 8.86 | 8.71 | 7.60 | 7.85 | NA |
| Inorganics in Groundwater | | | | | | | |
| Total Dissolved Solids (TDS) | <1.25 x background | mg/l | NA | NA | NA | NA | 552 |
| Chlorides | <1.25 x background | mg/l | NA | NA | NA | NA | 1400 |
| Sulfates | <1.25 x background | mg/l | NA | NA | NA | NA | 122 |
| Metals in Soil | | | | | | | |
| Arsenic | 0.39 | mg/kg | <0.50 | <0.47 | 1.6 | 1.9 | NA |
| Barium | 15000 | mg/kg | 204 | 304 | 267 | 269 | NA |
| Cadmium | 70 | mg/kg | <1.2 | <1.2 | <1.2 | <1.1 | NA |
| Chromium (III) | 120000 | mg/kg | <1.7 | <1.7 | 5.1 | 5.8 | NA |
| Chromium (VI) | 23 | mg/kg | <0.50 | <0.47 | <0.44 | 0.71 | NA |
| Copper | 3100 | mg/kg | 23.2 | 18.8 | 11.9 | 11.5 | NA |
| Lead | 400 | mg/kg | 7.4 | 6.1 | 9.4 | 10.3 | NA |
| Mercury | 23 | mg/kg | <0.12 | <0.11 | <0.11 | <0.11 | NA |
| Nickel | 1600 | mg/kg | <3.7 | <3.5 | 6.4 | 7.1 | NA |
| Selenium | 390 | mg/kg | <6.2 | <5.9 | <5.8 | <5.6 | NA |
| Silver | 390 | mg/kg | <3.7 | <3.5 | <3.5 | <3.3 | NA |
| Zinc | 23000 | mg/kg | 22.9 | 21.5 | 46 | 49.1 | NA |

COGCC-Colorado Oil and Gas Conservation Commission

mg/kg- milligrams per kilogram

mg/l-milligrams per liter

J- Value estimateed

BOLD-indicates analyte detected in sample

NA- Not Analyzed

Detection limit may exceed standard

µg/l- micrograms per liter

Analyte exceeds standard in sample

mmhos/cm- millimhos per centimeter

Technical Report for

Weston Solutions, Inc.

Gunnison Energy

Accutest Job Number: D27497

Sampling Date: 09/12/11

Report to:

**Weston Solutions, Inc.
143 Union Boulevard
Lakewood, CO 80228
k.miller@westonsolutions.com**

ATTN: Ken Miller

Total number of pages in report: 151



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

John Hamilton
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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Test results relate only to samples analyzed.

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Sample Summary

Weston Solutions, Inc.

Job No: D27497

Gunnison Energy

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------|------------------|
| | Date | Time By | | Code | Type | |
| D27497-1 | 09/12/11 | 11:55 RW | 09/13/11 | SO | Soil | HK134-SB01-0102 |
| D27497-1A | 09/12/11 | 11:55 RW | 09/13/11 | SO | Soil | HK134-SB01-0102 |
| D27497-2 | 09/12/11 | 12:05 RW | 09/13/11 | SO | Soil | HK134-SB01-0304 |
| D27497-2A | 09/12/11 | 12:05 RW | 09/13/11 | SO | Soil | HK134-SB01-0304 |
| D27497-3 | 09/12/11 | 12:40 RW | 09/13/11 | SO | Soil | HK134-SB06-0102 |
| D27497-3A | 09/12/11 | 12:40 RW | 09/13/11 | SO | Soil | HK134-SB06-0102 |
| D27497-4 | 09/12/11 | 12:50 RW | 09/13/11 | SO | Soil | HK134-SB06-0304 |
| D27497-4A | 09/12/11 | 12:50 RW | 09/13/11 | SO | Soil | HK134-SB06-0304 |
| D27497-5 | 09/12/11 | 13:15 RW | 09/13/11 | SO | Soil | HK134-SB04-0102 |
| D27497-5A | 09/12/11 | 13:15 RW | 09/13/11 | SO | Soil | HK134-SB04-0102 |
| D27497-6 | 09/12/11 | 13:20 RW | 09/13/11 | SO | Soil | HK134-SB04-0203 |
| D27497-6A | 09/12/11 | 13:20 RW | 09/13/11 | SO | Soil | HK134-SB04-0203 |
| D27497-7 | 09/12/11 | 13:45 RW | 09/13/11 | SO | Soil | HK134-SB05-0102 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

Weston Solutions, Inc.

Job No: D27497

Gunnison Energy

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|-------|------------------|
| | Date | Time By | | Code | Type | |
| D27497-7A | 09/12/11 | 13:45 RW | 09/13/11 | SO | Soil | HK134-SB05-0102 |
| D27497-8 | 09/12/11 | 13:50 RW | 09/13/11 | SO | Soil | HK134-SB05-0203 |
| D27497-8A | 09/12/11 | 13:50 RW | 09/13/11 | SO | Soil | HK134-SB05-0203 |
| D27497-9 | 09/12/11 | 14:30 RW | 09/13/11 | AQ | Water | HK134-SB02-0911 |
| D27497-10 | 09/12/11 | 14:40 RW | 09/13/11 | SO | Soil | HK134-SB03-0001 |
| D27497-10A | 09/12/11 | 14:40 RW | 09/13/11 | SO | Soil | HK134-SB03-0001 |
| D27497-11 | 09/12/11 | 14:50 RW | 09/13/11 | AQ | Water | HK134-SB03-0911 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Weston Solutions, Inc.

Job No D27497

Site: Gunnison Energy

Report Dat 9/27/2011 11:52:08 AM

On 09/13/2011, 11 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D27497 was assigned to the project. The lab sample IDs, client sample IDs, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: V7V479 |
|------------------|-------------------------|

- All samples were analyzed within the recommended method holding time.
- Sample(s) D27634-10MS, D27634-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

| | |
|------------------|--------------------------|
| Matrix SO | Batch ID: V5V1038 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- Sample(s) D27491-1MS, D27491-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270C BY SIM

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: OP4466 |
|------------------|-------------------------|

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) D27493-5MS, D27493-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of multiple analytes are outside control limits. Outside control limits due to matrix interference. Refer to Blank Spike.
- The matrix spike (MS) recovery(s) of Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- The RPD(s) for the MS and MSD recoveries of Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Naphthalene are outside control limits for sample OP4466-MSD. Probable cause due to sample homogeneity.
- Sample(s) OP4466-MS have surrogates outside control limits. Probable cause due to matrix interference.
- D27497-1 through D27497-4: Elevated RL due to matrix interference.

Volatiles by GC By Method SW846 8015B

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: GGB743 |
|------------------|-------------------------|

- All samples were analyzed within the recommended method holding time.
- Sample(s) D27497-1MS, D27497-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846-8015B

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: OP4473 |
|------------------|-------------------------|

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27544-1MS, D27544-1MSD were used as the QC samples indicated.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of TPH-DRO (C10-C28) are outside control limits. Outside control limits due to high level in sample relative to spike amount.

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: OP4541 |
|------------------|-------------------------|

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) D27977-1MS, D27977-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: MP5765 |
|------------------|-------------------------|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27497-7AMS, D27497-7AMSD were used as the QC samples for the metals analysis.

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: MP5762 |
|------------------|-------------------------|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27497-1MS, D27497-1MSD, D27497-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Selenium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The serial dilution RPD(s) for Cadmium, Selenium, Silver are outside control limits for sample MP5762-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- D27497-6 for several analytes: Elevated detection limit due to dilution required for possible matrix interference.
- The serial dilution RPD(s) for Barium, Chromium, Lead, Nickel, Zinc are outside control limits for sample MP5762-SD1. Serial dilution indicates possible matrix interference.

Metals By Method SW846 6020

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: MP5763 |
|------------------|-------------------------|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27497-1MS, D27497-1MSD, D27497-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Arsenic are outside control limits for sample MP5763-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7471A

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: MP5733 |
|------------------|-------------------------|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27410-1MS, D27410-1MSD were used as the QC samples for the metals analysis.
- The matrix spike duplicate (MSD) recovery(s) of Mercury are outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method ASTM D1498-76M

| | |
|------------------|--------------------------|
| Matrix SO | Batch ID: GN11544 |
|------------------|--------------------------|

- Sample(s) D27490-1DUP were used as the QC samples for the Redox Potential Vs H2 analysis.

Wet Chemistry By Method EPA 300/SW846 9056

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: GP5537 |
|------------------|-------------------------|

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27724-2MS, D27724-2MSD were used as the QC samples for the Chloride, Sulfate, Chloride analysis.

Wet Chemistry By Method SM19 2540B M

| | |
|------------------|--------------------------|
| Matrix SO | Batch ID: GN11537 |
|------------------|--------------------------|

- The data for SM19 2540B M meets quality control requirements.

Wet Chemistry By Method SM20 2540C

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN11571 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27514-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SW846 3060/7196A M

| | |
|------------------|------------------------|
| Matrix SO | Batch ID: R9751 |
|------------------|------------------------|

- The data for SW846 3060/7196A M meets quality control requirements.
- Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method SW846 3060A/7196A

| | |
|------------------|----------------------------|
| Matrix SO | Batch ID: M:GP13513 |
|------------------|----------------------------|

- The data for SW846 3060A/7196A meets quality control requirements.
- Chromium, Hexavalent: Analysis performed at Accutest Laboratories, Marlborough, MA.

Wet Chemistry By Method USDA HANDBOOK 60

| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: MP5765 |
|------------------|-------------------------|

- Sodium Adsorption Ratio: Calculated as: $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Mountain States

Job No D27497

Site: WESTCOL: Gunnison Energy

Report Date 9/20/2011 2:56:10 PM

9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/12/2011 and were received at Accutest on 09/13/2011 properly preserved, at 2.1 Deg. C and intact. These Samples received an Accutest job number of D27497. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method SW846 3060A/7196A

Matrix SO

Batch ID: GP13513

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D27611-1MS, D27611-1DUP were used as the QC samples for Chromium, Hexavalent.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP13513-D1. RPD acceptable due to low duplicate and sample concentrations.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(D27497).

Sample Results

Report of Analysis

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17486.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.04 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 61 | 27 | ug/kg | |
| 108-88-3 | Toluene | ND | 120 | 61 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 120 | 30 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 240 | 120 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 108% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | |
| Lab Sample ID: D27497-1 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 90.0 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 ^a | 3G06023.D | 5 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 37 | 30 | ug/kg | |
| 120-12-7 | Anthracene | ND | 37 | 33 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 93 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 93 | 67 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 93 | 68 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 93 | 41 | ug/kg | |
| 218-01-9 | Chrysene | ND | 93 | 41 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 93 | 68 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 37 | 37 | ug/kg | |
| 86-73-7 | Fluorene | ND | 37 | 31 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 110 | 100 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 37 | 35 | ug/kg | |
| 129-00-0 | Pyrene | ND | 37 | 35 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 67% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 70% | | 22-130% |

(a) Elevated RL due to matrix interference.

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

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

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13018.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.0 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 12 | 6.1 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 82% | | 60-140% | | |

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

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

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10282.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 14.3 | 15 | 9.6 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 72% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | 1.5 | 0.43 | mg/kg | 5 | 09/15/11 | 09/16/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 187 | 1.1 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.1 | 1.1 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | 5.0 | 1.1 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 9.6 | 1.1 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 8.7 | 5.4 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.10 | 0.10 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | 6.2 | 3.2 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 5.4 | 5.4 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 3.2 | 3.2 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 39.8 | 3.2 | mg/kg | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | 0.59 | 0.44 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | 4.4 | 1.5 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 555 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 90 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 49.9 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 7.72 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 12.5 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 3.74 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 5.65 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-1A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 90.0 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 0.360 | | ratio | 1 | 09/15/11 20:48 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17487.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.02 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 65 | 29 | ug/kg | |
| 108-88-3 | Toluene | ND | 130 | 65 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 130 | 32 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 260 | 130 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 109% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | |
| Lab Sample ID: D27497-2 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 86.9 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 ^a | 3G06024.D | 2 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 15 | 12 | ug/kg | |
| 120-12-7 | Anthracene | ND | 15 | 14 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 38 | 20 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 38 | 28 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 38 | 28 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 38 | 17 | ug/kg | |
| 218-01-9 | Chrysene | ND | 38 | 17 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 38 | 28 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 15 | 15 | ug/kg | |
| 86-73-7 | Fluorene | ND | 15 | 13 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 46 | 42 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 15 | 15 | ug/kg | |
| 129-00-0 | Pyrene | ND | 15 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 75% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 71% | | 22-130% |

(a) Elevated RL due to matrix interference.

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13024.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.0 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 13 | 6.5 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 85% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10283.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 15.1 | 15 | 10 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 74% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | 0.87 | 0.43 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 226 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.1 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | 4.5 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 5.4 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 8.2 | 5.4 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.10 | 0.10 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | 5.3 | 3.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 5.4 | 5.4 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 3.2 | 3.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 37.4 | 3.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | 0.53 | 0.46 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | 4.0 | 1.6 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 532 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 86.9 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 33.7 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 8.07 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 5.88 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 2.06 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 4.89 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB01-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-2A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 86.9 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 0.442 | | ratio | 1 | 09/15/11 20:55 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-3 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17488.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.06 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 62 | 27 | ug/kg | |
| 108-88-3 | Toluene | ND | 120 | 62 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 120 | 31 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 250 | 120 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 107% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | |
| Lab Sample ID: D27497-3 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 89.1 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 ^a | 3G06025.D | 2 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 15 | 12 | ug/kg | |
| 120-12-7 | Anthracene | ND | 15 | 13 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 37 | 19 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 37 | 27 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 37 | 28 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 37 | 16 | ug/kg | |
| 218-01-9 | Chrysene | ND | 37 | 16 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 37 | 28 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 15 | 15 | ug/kg | |
| 86-73-7 | Fluorene | ND | 15 | 13 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 45 | 41 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 15 | 14 | ug/kg | |
| 129-00-0 | Pyrene | ND | 15 | 14 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 77% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 67% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 22-130% |

(a) Elevated RL due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | |
| Lab Sample ID: D27497-3 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8015B | Percent Solids: 89.1 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13025.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.1 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 12 | 6.2 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 82% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-3 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10284.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 13.4 | 15 | 9.7 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 69% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-3 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | 1.6 | 0.47 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 267 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | 5.4 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 11.9 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 9.4 | 5.8 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.11 | 0.11 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | 6.4 | 3.5 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 5.8 | 5.8 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 3.5 | 3.5 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 46.0 | 3.5 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-3 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | < 0.44 | 0.44 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | 5.1 | 1.6 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 556 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 89.1 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 56.2 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 7.60 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-3A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 10.5 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 3.05 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 7.80 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-3A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 0.545 | | ratio | 1 | 09/15/11 21:02 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

37
3

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17489.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.25 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 62 | 27 | ug/kg | |
| 108-88-3 | Toluene | ND | 120 | 62 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 120 | 31 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 250 | 120 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 110% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | |
| Lab Sample ID: D27497-4 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 87.2 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 ^a | 3G06026.D | 2 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 15 | 12 | ug/kg | |
| 120-12-7 | Anthracene | ND | 15 | 14 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 38 | 20 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 38 | 27 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 38 | 28 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 38 | 17 | ug/kg | |
| 218-01-9 | Chrysene | ND | 38 | 17 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 38 | 28 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 15 | 15 | ug/kg | |
| 86-73-7 | Fluorene | ND | 15 | 13 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 46 | 42 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 15 | 15 | ug/kg | |
| 129-00-0 | Pyrene | ND | 15 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 76% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 22-130% |

(a) Elevated RL due to matrix interference.

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13026.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.2 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 12 | 6.2 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 79% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10082.D | 1 | 09/16/11 | KV | 09/15/11 | OP4473 | GFD465 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 19.6 | 15 | 9.9 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 70% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | 1.9 | 0.45 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 269 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.1 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | 6.5 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 11.5 | 1.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 10.3 | 5.6 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.11 | 0.11 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | 7.1 | 3.3 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 5.6 | 5.6 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 3.3 | 3.3 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 49.1 | 3.3 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | 0.71 | 0.45 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | 5.8 | 1.6 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 518 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 87.2 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 52.3 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 7.85 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 8.54 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 2.35 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 7.72 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB06-0304 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-4A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 87.2 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 0.603 | | ratio | 1 | 09/15/11 21:09 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | |
| Lab Sample ID: D27497-5 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8260B | Percent Solids: 82.3 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17490.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.09 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 70 | 31 | ug/kg | |
| 108-88-3 | Toluene | ND | 140 | 70 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 140 | 35 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 280 | 140 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 109% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 62-130% |

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

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

Report of Analysis

3.9
3

| | | |
|--|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5 | | Date Received: 09/13/11 |
| Matrix: SO - Soil | | Percent Solids: 82.3 |
| Method: SW846 8270C BY SIM SW846 3546 | | |
| Project: Gunnison Energy | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | 3G06027.D | 1 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 8.1 | 6.5 | ug/kg | |
| 120-12-7 | Anthracene | ND | 8.1 | 7.3 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 20 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 20 | 15 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 20 | 15 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 20 | 8.9 | ug/kg | |
| 218-01-9 | Chrysene | ND | 20 | 8.9 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 20 | 15 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 8.1 | 8.1 | ug/kg | |
| 86-73-7 | Fluorene | ND | 8.1 | 6.9 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 24 | 22 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 8.1 | 7.7 | ug/kg | |
| 129-00-0 | Pyrene | ND | 8.1 | 7.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 77% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 79% | | 22-130% |

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.9
3

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.3 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13027.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.1 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 14 | 7.0 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 87% | | 60-140% | | |

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

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

Report of Analysis

3.9
3

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.3 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10083.D | 1 | 09/16/11 | KV | 09/15/11 | OP4473 | GFD465 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 15.3 | 16 | 11 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 70% | | 61-142% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL - Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.3 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | < 0.49 | 0.49 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 182 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 28.0 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 9.1 | 6.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.12 | 0.12 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | < 3.6 | 3.6 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 6.1 | 6.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 3.6 | 3.6 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 25.5 | 3.6 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.3 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | < 0.48 | 0.48 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | < 1.7 | 1.7 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 519 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 82.3 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 2790 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 7.71 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.3 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 166 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 13.1 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 450 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-5A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.3 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 9.04 | | ratio | 1 | 09/15/11 21:16 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17491.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.04 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 70 | 31 | ug/kg | |
| 108-88-3 | Toluene | ND | 140 | 70 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 140 | 35 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 280 | 140 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 109% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | |
| Lab Sample ID: D27497-6 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 82.8 |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | 3G06058.D | 1 | 09/15/11 | TMB | 09/14/11 | OP4466 | E3G218 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 8.0 | 6.4 | ug/kg | |
| 120-12-7 | Anthracene | ND | 8.0 | 7.2 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 20 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 20 | 14 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 20 | 15 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 20 | 8.9 | ug/kg | |
| 218-01-9 | Chrysene | ND | 20 | 8.9 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 20 | 15 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 8.0 | 8.0 | ug/kg | |
| 86-73-7 | Fluorene | ND | 8.0 | 6.8 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 24 | 22 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 8.0 | 7.6 | ug/kg | |
| 129-00-0 | Pyrene | ND | 8.0 | 7.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 88% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 79% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 92% | | 22-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13028.D | 1 | 09/19/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.0 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 14 | 7.0 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 88% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10084.D | 1 | 09/16/11 | KV | 09/15/11 | OP4473 | GFD465 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 12.8 | 16 | 10 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 74% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------------------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | 0.63 | 0.46 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 241 | 5.8 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium ^a | < 5.8 | 5.8 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium ^a | < 5.8 | 5.8 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 19.7 | 5.8 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead ^a | < 29 | 29 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.12 | 0.12 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel ^a | < 17 | 17 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium ^a | < 29 | 29 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver ^a | < 17 | 17 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 42.7 | 17 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1829
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

(a) Elevated detection limit due to dilution required for possible matrix interference.

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | < 0.48 | 0.48 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | < 6.3 | 6.3 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 479 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 82.8 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 1310 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 8.72 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 49.0 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 3.83 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 241 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB04-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-6A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 82.8 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 8.91 | | ratio | 1 | 09/15/11 21:23 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | |
| Lab Sample ID: D27497-7 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8260B | Percent Solids: 79.5 |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17492.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.01 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 76 | 33 | ug/kg | |
| 108-88-3 | Toluene | ND | 150 | 76 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 150 | 38 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 300 | 150 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 110% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | | 62-130% |

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

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

Report of Analysis

| | | |
|--|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-7 | | Date Received: 09/13/11 |
| Matrix: SO - Soil | | Percent Solids: 79.5 |
| Method: SW846 8270C BY SIM SW846 3546 | | |
| Project: Gunnison Energy | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | 3G06059.D | 1 | 09/15/11 | TMB | 09/14/11 | OP4466 | E3G218 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 8.4 | 6.7 | ug/kg | |
| 120-12-7 | Anthracene | ND | 8.4 | 7.5 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 21 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 21 | 15 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 21 | 16 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 21 | 9.2 | ug/kg | |
| 218-01-9 | Chrysene | ND | 21 | 9.2 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 21 | 16 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 8.4 | 8.4 | ug/kg | |
| 86-73-7 | Fluorene | ND | 8.4 | 7.1 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 25 | 23 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 8.4 | 8.0 | ug/kg | |
| 129-00-0 | Pyrene | ND | 8.4 | 8.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 88% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 100% | | 22-130% |

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-7 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 79.5 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13031.D | 1 | 09/19/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.0 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 15 | 7.6 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 83% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-7 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 79.5 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10085.D | 1 | 09/16/11 | KV | 09/15/11 | OP4473 | GFD465 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 12.7 | 17 | 11 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 79% | | 61-142% | | |

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

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

Report of Analysis

Client Sample ID: HK134-SB05-0102**Lab Sample ID:** D27497-7**Date Sampled:** 09/12/11**Matrix:** SO - Soil**Date Received:** 09/13/11**Percent Solids:** 79.5**Project:** Gunnison Energy**Metals Analysis**

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | < 0.50 | 0.50 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 204 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 23.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 7.4 | 6.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.12 | 0.12 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | < 3.7 | 3.7 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 6.2 | 6.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 3.7 | 3.7 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 22.9 | 3.7 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

(1) Instrument QC Batch: MA1822

(2) Instrument QC Batch: MA1828

(3) Instrument QC Batch: MA1833

(4) Prep QC Batch: MP5733

(5) Prep QC Batch: MP5762

(6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-7 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 79.5 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | < 0.50 | 0.50 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | < 1.7 | 1.7 | mg/kg | 1 | 09/19/11 15:32 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 467 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 79.5 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 2430 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 8.86 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-7A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 79.5 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 85.8 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 6.37 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 443 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0102 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-7A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 79.5 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 12.4 | | ratio | 1 | 09/15/11 20:28 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-8 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 84.5 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17493.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.02 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 68 | 30 | ug/kg | |
| 108-88-3 | Toluene | ND | 140 | 68 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 140 | 34 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 270 | 140 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 108% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | |
| Lab Sample ID: D27497-8 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 84.5 |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | 3G06060.D | 1 | 09/15/11 | TMB | 09/14/11 | OP4466 | E3G218 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 7.9 | 6.3 | ug/kg | |
| 120-12-7 | Anthracene | ND | 7.9 | 7.1 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 20 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 20 | 14 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 20 | 15 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 20 | 8.7 | ug/kg | |
| 218-01-9 | Chrysene | ND | 20 | 8.7 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 20 | 15 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 7.9 | 7.9 | ug/kg | |
| 86-73-7 | Fluorene | ND | 7.9 | 6.7 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 24 | 22 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.9 | 7.5 | ug/kg | |
| 129-00-0 | Pyrene | ND | 7.9 | 7.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 84% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 78% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 89% | | 22-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | |
| Lab Sample ID: D27497-8 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8015B | Percent Solids: 84.5 |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13032.D | 1 | 09/19/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.0 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 14 | 6.8 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 88% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-8 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 84.5 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10086.D | 1 | 09/16/11 | KV | 09/15/11 | OP4473 | GFD465 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 11.0 | 16 | 10 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 75% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-8 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 84.5 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | < 0.47 | 0.47 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ⁴ | SW846 3050B ⁷ |
| Barium | 304 | 5.9 | mg/kg | 5 | 09/15/11 | 09/16/11 JM | SW846 6010B ³ | SW846 3050B ⁶ |
| Cadmium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Chromium | < 1.2 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Copper | 18.8 | 1.2 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Lead | 6.1 | 5.9 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Mercury | < 0.11 | 0.11 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁵ |
| Nickel | < 3.5 | 3.5 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Selenium | < 5.9 | 5.9 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Silver | < 3.5 | 3.5 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |
| Zinc | 21.5 | 3.5 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁶ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1829
- (4) Instrument QC Batch: MA1833
- (5) Prep QC Batch: MP5733
- (6) Prep QC Batch: MP5762
- (7) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-8 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 84.5 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | < 0.47 | 0.47 | mg/kg | 1 | 09/19/11 15:49 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | < 1.7 | 1.7 | mg/kg | 1 | 09/19/11 15:49 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 479 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 84.5 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 1260 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 8.71 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-8A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 84.5 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 44.4 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 3.36 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 226 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB05-0203 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-8A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 84.5 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 8.80 | | ratio | 1 | 09/15/11 21:49 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB02-0911 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-9 | Date Received: 09/13/11 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 7V09084.D | 1 | 09/16/11 | BR | n/a | n/a | V7V479 |
| Run #2 | | | | | | | |

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

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | 9.1 | 1.0 | 0.25 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | 10.1 | 2.0 | 0.50 | ug/l | |
| 1330-20-7 | Xylene (total) | 14.1 | 4.0 | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | | 67-131% |
| 2037-26-5 | Toluene-D8 | 92% | | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 83% | | 65-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB02-0911 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-9 | Date Received: 09/13/11 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-------------------------|--------|-----|-------|-----|----------------|----|--------------------|
| Chloride | 1440 | 50 | mg/l | 100 | 09/26/11 14:48 | GH | EPA 300/SW846 9056 |
| Solids, Total Dissolved | 3000 | 10 | mg/l | 1 | 09/15/11 | JK | SM20 2540C |
| Sulfate | 71.9 | 2.5 | mg/l | 5 | 09/26/11 11:41 | GH | EPA 300/SW846 9056 |

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 5V17494.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.17 g | 5.0 ml | 100 ul |
| Run #2 | | | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 86 | 38 | ug/kg | |
| 108-88-3 | Toluene | ND | 170 | 86 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 170 | 43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 340 | 170 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 109% | | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 62-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | |
| Lab Sample ID: D27497-10 | Date Sampled: 09/12/11 |
| Matrix: SO - Soil | Date Received: 09/13/11 |
| Method: SW846 8270C BY SIM SW846 3546 | Percent Solids: 72.2 |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | 3G06061.D | 1 | 09/16/11 | TMB | 09/14/11 | OP4466 | E3G218 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

COGCC Table 910-1 PAH List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 9.2 | 7.4 | ug/kg | |
| 120-12-7 | Anthracene | ND | 9.2 | 8.3 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 23 | 12 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 23 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 23 | 17 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 23 | 10 | ug/kg | |
| 218-01-9 | Chrysene | ND | 23 | 10 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 23 | 17 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 9.2 | 9.2 | ug/kg | |
| 86-73-7 | Fluorene | ND | 9.2 | 7.8 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 28 | 25 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 9.2 | 8.8 | ug/kg | |
| 129-00-0 | Pyrene | ND | 9.2 | 8.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 81% | | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 87% | | 22-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Method: SW846 8015B | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB13033.D | 1 | 09/19/11 | SK | n/a | n/a | GGB743 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.2 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 17 | 8.6 | mg/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 85% | | 60-140% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Method: SW846-8015B SW846 3546 | |
| Project: Gunnison Energy | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FD10087.D | 1 | 09/16/11 | KV | 09/15/11 | OP4473 | GFD465 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | 12.3 | 18 | 12 | mg/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 71% | | 61-142% | | |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Project: Gunnison Energy | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic | < 0.57 | 0.57 | mg/kg | 5 | 09/15/11 | 09/17/11 GJ | SW846 6020 ³ | SW846 3050B ⁶ |
| Barium | 221 | 1.4 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Cadmium | < 1.4 | 1.4 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Chromium | 2.9 | 1.4 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Copper | 14.0 | 1.4 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Lead | 7.5 | 7.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Mercury | < 0.14 | 0.14 | mg/kg | 1 | 09/14/11 | 09/14/11 JB | SW846 7471A ¹ | SW846 7471A ⁴ |
| Nickel | < 4.3 | 4.3 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Selenium | < 7.1 | 7.1 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Silver | < 4.3 | 4.3 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |
| Zinc | 33.7 | 4.3 | mg/kg | 1 | 09/15/11 | 09/16/11 JM | SW846 6010B ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA1822
- (2) Instrument QC Batch: MA1828
- (3) Instrument QC Batch: MA1833
- (4) Prep QC Batch: MP5733
- (5) Prep QC Batch: MP5762
- (6) Prep QC Batch: MP5763

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10 | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------------------|--------|------|----------|----|----------------|-----|---------------------|
| Chromium, Hexavalent ^a | < 0.54 | 0.54 | mg/kg | 1 | 09/19/11 15:49 | AMA | SW846 3060A/7196A |
| Chromium, Trivalent ^b | 2.4 | 1.9 | mg/kg | 1 | 09/19/11 15:49 | AMA | SW846 3060/7196A M |
| Redox Potential Vs H2 | 486 | | mv | 1 | 09/13/11 | JD | ASTM D1498-76M |
| Solids, Percent | 72.2 | | % | 1 | 09/13/11 | SWT | SM19 2540B M |
| Specific Conductivity | 2020 | 1.0 | umhos/cm | 1 | 09/20/11 | CJ | DEPT.OF AG, BOOK N9 |
| pH | 8.21 | | su | 1 | 09/13/11 13:55 | JD | SW846 9045C |

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Project: Gunnison Energy | |

SAR Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|------------------------|
| Calcium | 82.4 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Magnesium | 10.1 | 1.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |
| Sodium | 369 | 2.0 | mg/l | 1 | 09/15/11 | 09/15/11 JM | SW846 6010B ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA1828

(2) Prep QC Batch: MP5765

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0001 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-10A | Date Received: 09/13/11 |
| Matrix: SO - Soil | Percent Solids: 72.2 |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio ^a | 10.2 | | ratio | 1 | 09/15/11 21:56 | JM | USDA HANDBOOK 60 |

(a) Calculated as: $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0911 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-11 | Date Received: 09/13/11 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Method: SW846 8260B | |
| Project: Gunnison Energy | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 7V09085.D | 1 | 09/16/11 | BR | n/a | n/a | V7V479 |
| Run #2 | | | | | | | |

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

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | 10.1 | 1.0 | 0.25 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | 14.9 | 2.0 | 0.50 | ug/l | |
| 1330-20-7 | Xylene (total) | 15.5 | 4.0 | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 67-131% |
| 2037-26-5 | Toluene-D8 | 93% | | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 65-130% |

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

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

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: HK134-SB03-0911 | Date Sampled: 09/12/11 |
| Lab Sample ID: D27497-11 | Date Received: 09/13/11 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-------------------------|--------|-----|-------|-----|----------------|----|--------------------|
| Chloride | 1740 | 50 | mg/l | 100 | 09/26/11 14:59 | GH | EPA 300/SW846 9056 |
| Solids, Total Dissolved | 3350 | 10 | mg/l | 1 | 09/15/11 | JK | SM20 2540C |
| Sulfate | 71.9 | 2.5 | mg/l | 5 | 09/26/11 11:52 | GH | EPA 300/SW846 9056 |

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D27497

Client: WESTON

Immediate Client Services Action Required: No

Date / Time Received: 9/13/2011 8:50:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: GUNNISON

Airbill #'s: HD

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

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

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

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

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

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

Comments

4.1
4

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5V1038-MB | 5V17481.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2 | Benzene | ND | 50 | 22 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 100 | 25 | ug/kg | |
| 108-88-3 | Toluene | ND | 100 | 50 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 200 | 100 | ug/kg | |

| CAS No. | Surrogate Recoveries | Limits |
|------------|-----------------------|--------------|
| 2037-26-5 | Toluene-D8 | 111% 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 99% 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% 62-130% |

Method Blank Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V7V479-MB | 7V09075.D | 1 | 09/16/11 | BR | n/a | n/a | V7V479 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D27497-9, D27497-11

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 4.0 | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Limits |
|------------|-----------------------|--------------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% 67-131% |
| 2037-26-5 | Toluene-D8 | 93% 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 83% 65-130% |

Blank Spike Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5V1038-BS | 5V17482.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|----------------|----------------|--------------|----------|--------|
| 71-43-2 | Benzene | 50 | 51.9 | 104 | 70-130 |
| 100-41-4 | Ethylbenzene | 50 | 50.3 | 101 | 70-130 |
| 108-88-3 | Toluene | 50 | 52.4 | 105 | 70-130 |
| 1330-20-7 | Xylene (total) | 150 | 155 | 103 | 70-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|------------|-----------------------|------|---------|
| 2037-26-5 | Toluene-D8 | 110% | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 62-130% |

Blank Spike Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V7V479-BS | 7V09076.D | 1 | 09/16/11 | BR | n/a | n/a | V7V479 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D27497-9, D27497-11

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|----------------|---------------|-------------|----------|--------|
| 71-43-2 | Benzene | 50 | 49.1 | 98 | 70-130 |
| 100-41-4 | Ethylbenzene | 50 | 48.2 | 96 | 70-130 |
| 108-88-3 | Toluene | 50 | 52.2 | 104 | 70-130 |
| 1330-20-7 | Xylene (total) | 150 | 142 | 95 | 56-138 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|------------|-----------------------|------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 67-131% |
| 2037-26-5 | Toluene-D8 | 114% | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 65-130% |

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| D27491-1MS | 5V17484.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| D27491-1MSD | 5V17485.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |
| D27491-1 | 5V17483.D | 1 | 09/14/11 | DC | n/a | n/a | V5V1038 |

The QC reported here applies to the following samples: **Method:** SW846 8260B

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | D27491-1 ug/kg | Spike Q ug/kg | MS ug/kg | MS % | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|-----------|----------------|-------------------|---------------------|-------------|---------|--------------|----------|-----|-------------------|
| 71-43-2 | Benzene | 945 | 3260 | 4660 | 114 | 4740 | 117 | 2 | 70-134/30 |
| 100-41-4 | Ethylbenzene | 236 | 3260 | 3760 | 108 | 3890 | 112 | 3 | 70-137/30 |
| 108-88-3 | Toluene | 2440 | 3260 | 6010 | 110 | 6120 | 113 | 2 | 70-130/30 |
| 1330-20-7 | Xylene (total) | 2420 | 9770 | 13400 | 112 | 13800 | 117 | 3 | 61-131/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | D27491-1 | Limits |
|------------|-----------------------|------|------|----------|---------|
| 2037-26-5 | Toluene-D8 | 105% | 108% | 107% | 61-130% |
| 460-00-4 | 4-Bromofluorobenzene | 115% | 117% | 108% | 53-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 110% | 112% | 62-130% |

5.3.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| D27634-10MS | 7V09077.D | 5 | 09/16/11 | BR | n/a | n/a | V7V479 |
| D27634-10MSD | 7V09078.D | 5 | 09/16/11 | BR | n/a | n/a | V7V479 |
| D27634-10 | 7V09081.D | 1 | 09/16/11 | BR | n/a | n/a | V7V479 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D27497-9, D27497-11

| CAS No. | Compound | D27634-10 ug/l | Spike Q ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|----------------|-------------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | ND | 250 | 245 | 98 | 254 | 102 | 4 | 61-133/30 |
| 100-41-4 | Ethylbenzene | ND | 250 | 243 | 97 | 248 | 99 | 2 | 70-130/30 |
| 108-88-3 | Toluene | ND | 250 | 261 | 104 | 261 | 104 | 0 | 70-130/30 |
| 1330-20-7 | Xylene (total) | ND | 750 | 730 | 97 | 739 | 99 | 1 | 56-138/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | D27634-10 | Limits |
|------------|-----------------------|------|------|-----------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 105% | 103% | 67-131% |
| 2037-26-5 | Toluene-D8 | 112% | 110% | 93% | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 106% | 83% | 65-130% |

5.3.2
5

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|-----|-----------|------------|------------------|
| OP4466-MB | 3G06014.D | 1 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9 | Acenaphthene | ND | 6.7 | 5.3 | ug/kg | |
| 120-12-7 | Anthracene | ND | 6.7 | 6.0 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 17 | 8.7 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 17 | 12 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 17 | 12 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 17 | 7.3 | ug/kg | |
| 218-01-9 | Chrysene | ND | 17 | 7.3 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 17 | 12 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 6.7 | 6.7 | ug/kg | |
| 86-73-7 | Fluorene | ND | 6.7 | 5.7 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 20 | 18 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.7 | 6.3 | ug/kg | |
| 129-00-0 | Pyrene | ND | 6.7 | 6.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Limits |
|-----------|----------------------|--------------|
| 4165-60-0 | Nitrobenzene-d5 | 111% 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 97% 10-130% |
| 1718-51-0 | Terphenyl-d14 | 114% 22-130% |

Blank Spike Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|-----|-----------|------------|------------------|
| OP4466-BS | 3G06015.D | 1 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|----------|------------------------|-------------|-----------|-------|--------|
| 83-32-9 | Acenaphthene | 83.3 | 64.0 | 77 | 34-130 |
| 120-12-7 | Anthracene | 83.3 | 71.4 | 86 | 35-130 |
| 56-55-3 | Benzo(a)anthracene | 83.3 | 68.9 | 83 | 36-130 |
| 50-32-8 | Benzo(a)pyrene | 83.3 | 67.5 | 81 | 36-130 |
| 205-99-2 | Benzo(b)fluoranthene | 83.3 | 71.4 | 86 | 35-130 |
| 207-08-9 | Benzo(k)fluoranthene | 83.3 | 67.5 | 81 | 37-130 |
| 218-01-9 | Chrysene | 83.3 | 69.0 | 83 | 40-130 |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.3 | 66.8 | 80 | 32-130 |
| 206-44-0 | Fluoranthene | 83.3 | 66.4 | 80 | 38-130 |
| 86-73-7 | Fluorene | 83.3 | 66.6 | 80 | 35-130 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 83.3 | 70.5 | 85 | 28-130 |
| 91-20-3 | Naphthalene | 83.3 | 66.5 | 80 | 35-130 |
| 129-00-0 | Pyrene | 83.3 | 75.4 | 90 | 37-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|-----------|----------------------|------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 95% | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 85% | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 105% | 22-130% |

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|-----------|----|----------|-----|-----------|------------|------------------|
| OP4466-MS ^a | 3G06018.D | 5 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| OP4466-MSD ^a | 3G06019.D | 5 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |
| D27493-5 | 3G06017.D | 5 | 09/14/11 | TMB | 09/14/11 | OP4466 | E3G217 |

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | D27493-5 ug/kg | Spike Q | ug/kg | MS ug/kg | MS % | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|----------|------------------------|-------------------|------------|-------|--------------------|---------|--------------------|----------|-----------|-------------------|
| 83-32-9 | Acenaphthene | ND | 98.2 | 71.0 | 72 | 97.5 | 99 | 31* | 10-155/30 | |
| 120-12-7 | Anthracene | ND | 98.2 | 44.1 | 45 | 61.6 | 63 | 33* | 10-155/30 | |
| 56-55-3 | Benzo(a)anthracene | ND | 98.2 | 58.0 | 59 | 80.4 | 82 | 32* | 10-175/30 | |
| 50-32-8 | Benzo(a)pyrene | ND | 98.2 | ND | 0* | ND | 0* | nc | 10-164/30 | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 98.2 | ND | 0* | ND | 0* | nc | 10-165/30 | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 98.2 | ND | 0* | 66.9 | 68 | 200* | 10-178/30 | |
| 218-01-9 | Chrysene | ND | 98.2 | 59.6 | 61 | 83.1 | 85 | 33* | 10-147/30 | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 98.2 | ND | 0* | ND | 0* | nc | 10-144/30 | |
| 206-44-0 | Fluoranthene | ND | 98.2 | 65.9 | 67 | 97.8 | 100 | 39* | 10-207/30 | |
| 86-73-7 | Fluorene | 160 | 98.2 | 129 | -32* | 175 | 15 | 30 | 10-163/30 | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 98.2 | ND | 0* | ND | 0* | nc | 10-180/30 | |
| 91-20-3 | Naphthalene | 1110 | 98.2 | 622 | -497* ^b | 1010 | -102* ^b | 48* | 10-198/30 | |
| 129-00-0 | Pyrene | 45.8 | 98.2 | 68.0 | 23 | 92.0 | 47 | 30 | 10-189/30 | |

| CAS No. | Surrogate Recoveries | MS | MSD | D27493-5 | Limits |
|-----------|----------------------|------|-----|----------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 7% * | 12% | 87% | 10-145% |
| 321-60-8 | 2-Fluorobiphenyl | 36% | 54% | 56% | 10-130% |
| 1718-51-0 | Terphenyl-d14 | 38% | 55% | 72% | 22-130% |

(a) Outside control limits due to matrix interference. Refer to Blank Spike.

(b) Outside control limits due to high level in sample relative to spike amount.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| GGB743-MB | GB13016.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |

The QC reported here applies to the following samples:

Method: SW846 8015B

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|------------------|--------|----|-----|-------|---|
| | TPH-GRO (C6-C10) | ND | 10 | 5.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Limits |
|----------|------------------------|-------------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 84% 60-140% |

7.1.1
7

Blank Spike Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| GGB743-BS | GB13017.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |

The QC reported here applies to the following samples:

Method: SW846 8015B

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Spike mg/kg | BSP mg/kg | BSP % | Limits |
|---------|------------------|----------------|--------------|----------|--------|
| | TPH-GRO (C6-C10) | 110 | 122 | 111 | 70-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|----------|------------------------|-----|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 96% | 60-140% |

7.2.1

7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| D27497-1MS | GB13019.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| D27497-1MSD | GB13020.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |
| D27497-1 | GB13018.D | 1 | 09/18/11 | SK | n/a | n/a | GGB743 |

The QC reported here applies to the following samples: Method: SW846 8015B

D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | D27497-1 mg/kg | Spike mg/kg | MS mg/kg | MS % | MSD mg/kg | MSD % | RPD | Limits Rec/RPD |
|---------|------------------|-------------------|----------------|-------------|---------|--------------|----------|-----|-------------------|
| | TPH-GRO (C6-C10) | ND | 134 | 146 | 109 | 144 | 108 | 1 | 70-130/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | D27497-1 | Limits |
|----------|------------------------|-----|-----|----------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 96% | 97% | 82% | 60-140% |

7.3.1
7

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| OP4473-MB | FD10063.D | 1 | 09/15/11 | KV | 09/15/11 | OP4473 | GFD462 |

The QC reported here applies to the following samples:

Method: SW846-8015B

D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| | TPH-DRO (C10-C28) | ND | 13 | 8.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Limits |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl | 90% 61-142% |

Method Blank Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| OP4541-MB | FD10277.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |

The QC reported here applies to the following samples:

Method: SW846-8015B

D27497-1, D27497-2, D27497-3

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| | TPH-DRO (C10-C28) | ND | 13 | 8.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Limits |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl | 88% 61-142% |

8.1.2
8

Blank Spike Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| OP4473-BS | FD10064.D | 1 | 09/15/11 | KV | 09/15/11 | OP4473 | GFD462 |

The QC reported here applies to the following samples:

Method: SW846-8015B

D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | Spike mg/kg | BSP mg/kg | BSP % | Limits |
|---------|-------------------|----------------|--------------|----------|--------|
| | TPH-DRO (C10-C28) | 667 | 553 | 83 | 60-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl | 94% | 61-142% |

8.2.1

8

Blank Spike Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| OP4541-BS | FD10278.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |

The QC reported here applies to the following samples:

Method: SW846-8015B

D27497-1, D27497-2, D27497-3

| CAS No. | Compound | Spike mg/kg | BSP mg/kg | BSP % | Limits |
|---------|-------------------|----------------|--------------|----------|--------|
| | TPH-DRO (C10-C28) | 667 | 546 | 82 | 60-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl | 88% | 61-142% |

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP4473-MS | FD10065.D | 1 | 09/15/11 | KV | 09/15/11 | OP4473 | GFD462 |
| OP4473-MSD | FD10066.D | 1 | 09/15/11 | KV | 09/15/11 | OP4473 | GFD462 |
| D27544-1 | FD10067.D | 1 | 09/15/11 | KV | 09/15/11 | OP4473 | GFD462 |

The QC reported here applies to the following samples:

Method: SW846-8015B

D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

| CAS No. | Compound | D27544-1 mg/kg | Spike mg/kg | MS mg/kg | MS % | MSD mg/kg | MSD % | RPD | Limits Rec/RPD |
|---------|-------------------|-------------------|----------------|-------------|---------|--------------|----------|-----|-------------------|
| | TPH-DRO (C10-C28) | 21700 | 8360 | 21800 | 1* a | 21600 | -1* a | 1 | 24-157/35 |

| CAS No. | Surrogate Recoveries | MS | MSD | D27544-1 | Limits |
|---------|----------------------|-----|-----|----------|---------|
| 84-15-1 | o-Terphenyl | 82% | 83% | 83% | 61-142% |

(a) Outside control limits due to high level in sample relative to spike amount.

8.3.1
8

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D27497
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP4541-MS | FD10279.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |
| OP4541-MSD | FD10280.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |
| D27977-1 | FD10281.D | 1 | 09/26/11 | KV | 09/26/11 | OP4541 | GFD483 |

The QC reported here applies to the following samples:

Method: SW846-8015B

D27497-1, D27497-2, D27497-3

| CAS No. | Compound | D27977-1 mg/kg | Spike mg/kg | MS mg/kg | MS % | MSD mg/kg | MSD % | RPD | Limits Rec/RPD |
|---------|-------------------|-------------------|----------------|-------------|---------|--------------|----------|-----|-------------------|
| | TPH-DRO (C10-C28) | 334 | 738 | 741 | 55 | 721 | 52 | 3 | 24-157/35 |

| CAS No. | Surrogate Recoveries | MS | MSD | D27977-1 | Limits |
|---------|----------------------|-----|-----|----------|---------|
| 84-15-1 | o-Terphenyl | 66% | 65% | 65% | 61-142% |

8.3.2
8

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5733
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 09/14/11

| Metal | RL | IDL | MDL | MB raw | final |
|---------|------|-------|------|-----------|-------|
| Mercury | 0.10 | .0011 | .013 | -0.0036 | <0.10 |

Associated samples MP5733: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5733
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 09/14/11

| Metal | D27410-1 Original MS | Spike HGWSR1 | lot % Rec | QC Limits |
|---------|-------------------------|-----------------|--------------|--------------|
| Mercury | 0.018 | 0.46 | 0.49 | 90.2 85-115 |

Associated samples MP5733: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5733
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 09/14/11

| Metal | D27410-1 Original MSD | Spikelot HGWSR1 | % Rec | MSD RPD | QC Limit |
|---------|--------------------------|--------------------|-------|--------------|-------------|
| Mercury | 0.018 | 0.43 | 0.49 | 84.0N(a) 6.7 | 20 |

Associated samples MP5733: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5733
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 09/14/11

| Metal | BSP Result | Spikelot HGWSR1 | % Rec | QC Limits |
|---------|---------------|--------------------|-------|--------------|
| Mercury | 0.36 | 0.4 | 90.0 | 80-120 |

Associated samples MP5733: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5762
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 09/15/11

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-------|------|-----------|-------|
| Aluminum | 10 | .59 | .59 | | |
| Antimony | 3.0 | .31 | .31 | | |
| Arsenic | 2.5 | .59 | .59 | | |
| Barium | 1.0 | .11 | .11 | 0.030 | <1.0 |
| Beryllium | 1.0 | .044 | .1 | | |
| Boron | 5.0 | .48 | .48 | | |
| Cadmium | 1.0 | .027 | .27 | 0.020 | <1.0 |
| Calcium | 40 | .96 | 1.1 | | |
| Chromium | 1.0 | .018 | .031 | 0.020 | <1.0 |
| Cobalt | 0.50 | .035 | .035 | | |
| Copper | 1.0 | .085 | .16 | 0.070 | <1.0 |
| Iron | 7.0 | .34 | 2 | | |
| Lead | 5.0 | .16 | .21 | 0.18 | <5.0 |
| Lithium | 0.20 | .028 | .031 | | |
| Magnesium | 20 | .58 | 1.4 | | |
| Manganese | 0.50 | .0053 | .012 | | |
| Molybdenum | 1.0 | .045 | .054 | | |
| Nickel | 3.0 | .043 | .099 | -0.010 | <3.0 |
| Phosphorus | 10 | 1.1 | 1.2 | | |
| Potassium | 200 | 5.5 | 9.2 | | |
| Selenium | 5.0 | .38 | .5 | 0.050 | <5.0 |
| Silicon | 5.0 | .38 | .51 | | |
| Silver | 3.0 | .018 | .051 | -0.040 | <3.0 |
| Sodium | 40 | 11 | 11 | | |
| Strontium | 5.0 | | .017 | | |
| Thallium | 1.0 | .29 | .34 | | |
| Tin | 5.0 | .55 | 1.3 | | |
| Titanium | 1.0 | .011 | .1 | | |
| Uranium | 5.0 | .15 | .2 | | |
| Vanadium | 1.0 | .016 | .025 | | |
| Zinc | 3.0 | .028 | .06 | 0.17 | <3.0 |

Associated samples MP5762: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5762
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5762
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 09/15/11

| Metal | D27497-1 Original MS | | SpikeLot MPICPALL % Rec | | QC Limits |
|------------|-------------------------|------|----------------------------|----------|--------------|
| Aluminum | anr | | | | |
| Antimony | | | | | |
| Arsenic | anr | | | | |
| Barium | 187 | 380 | 229 | 84.2 | 75-125 |
| Beryllium | | | | | |
| Boron | | | | | |
| Cadmium | 0.25 | 45.7 | 57.3 | 79.4 | 75-125 |
| Calcium | anr | | | | |
| Chromium | 5.0 | 50.5 | 57.3 | 79.4 | 75-125 |
| Cobalt | | | | | |
| Copper | 9.6 | 58.9 | 57.3 | 86.1 | 75-125 |
| Iron | anr | | | | |
| Lead | 8.7 | 98.7 | 115 | 78.6 | 75-125 |
| Lithium | | | | | |
| Magnesium | anr | | | | |
| Manganese | anr | | | | |
| Molybdenum | anr | | | | |
| Nickel | 6.2 | 49.7 | 57.3 | 76.0 | 75-125 |
| Phosphorus | | | | | |
| Potassium | anr | | | | |
| Selenium | 0.59 | 86.1 | 115 | 74.7N(a) | 75-125 |
| Silicon | | | | | |
| Silver | 0.30 | 19.6 | 22.9 | 84.2 | 75-125 |
| Sodium | anr | | | | |
| Strontium | | | | | |
| Thallium | | | | | |
| Tin | | | | | |
| Titanium | | | | | |
| Uranium | | | | | |
| Vanadium | | | | | |
| Zinc | 39.8 | 85.4 | 57.3 | 79.6 | 75-125 |

Associated samples MP5762: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5762
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested
- (a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5762
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 09/15/11

| Metal | D27497-1 Original MSD | | SpikeLot MPICPALL % Rec | | MSD RPD | QC Limit |
|------------|--------------------------|------|----------------------------|------|------------|-------------|
| Aluminum | anr | | | | | |
| Antimony | | | | | | |
| Arsenic | anr | | | | | |
| Barium | 187 | 375 | 224 | 83.8 | 1.3 | 20 |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | 0.25 | 45.6 | 56.1 | 80.8 | 0.2 | 20 |
| Calcium | anr | | | | | |
| Chromium | 5.0 | 50.6 | 56.1 | 81.3 | 0.2 | 20 |
| Cobalt | | | | | | |
| Copper | 9.6 | 59.6 | 56.1 | 89.1 | 1.2 | 20 |
| Iron | anr | | | | | |
| Lead | 8.7 | 98.4 | 112 | 79.9 | 0.3 | 20 |
| Lithium | | | | | | |
| Magnesium | anr | | | | | |
| Manganese | anr | | | | | |
| Molybdenum | anr | | | | | |
| Nickel | 6.2 | 49.6 | 56.1 | 77.3 | 0.2 | 20 |
| Phosphorus | | | | | | |
| Potassium | anr | | | | | |
| Selenium | 0.59 | 85.2 | 112 | 75.4 | 1.1 | 20 |
| Silicon | | | | | | |
| Silver | 0.30 | 19.8 | 22.4 | 86.9 | 1.0 | 20 |
| Sodium | anr | | | | | |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | 39.8 | 86.0 | 56.1 | 82.3 | 0.7 | 20 |

Associated samples MP5762: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5762
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5762
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 09/15/11

| Metal | BSP Result | Spikelot MPICPALL | % Rec | QC Limits |
|------------|------------|-------------------|-------|-----------|
| Aluminum | anr | | | |
| Antimony | | | | |
| Arsenic | anr | | | |
| Barium | 184 | 200 | 92.0 | 80-120 |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | 44.0 | 50 | 88.0 | 80-120 |
| Calcium | anr | | | |
| Chromium | 44.2 | 50 | 88.4 | 80-120 |
| Cobalt | | | | |
| Copper | 46.3 | 50 | 92.6 | 80-120 |
| Iron | anr | | | |
| Lead | 89.0 | 100 | 89.0 | 80-120 |
| Lithium | | | | |
| Magnesium | anr | | | |
| Manganese | anr | | | |
| Molybdenum | anr | | | |
| Nickel | 42.6 | 50 | 85.2 | 80-120 |
| Phosphorus | | | | |
| Potassium | anr | | | |
| Selenium | 86.5 | 100 | 86.5 | 80-120 |
| Silicon | | | | |
| Silver | 18.6 | 20 | 93.0 | 80-120 |
| Sodium | anr | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | 43.2 | 50 | 86.4 | 80-120 |

Associated samples MP5762: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5762
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5762
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 09/15/11

| Metal | D27497-1 Original SDL 1:5 | | %DIF | QC Limits |
|------------|------------------------------|------|----------|--------------|
| Aluminum | anr | | | |
| Antimony | | | | |
| Arsenic | anr | | | |
| Barium | 1730 | 2030 | 17.4*(a) | 0-10 |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | 2.30 | 0.00 | 100.0(b) | 0-10 |
| Calcium | anr | | | |
| Chromium | 46.2 | 53.0 | 14.7*(a) | 0-10 |
| Cobalt | | | | |
| Copper | 88.8 | 94.0 | 5.9 | 0-10 |
| Iron | anr | | | |
| Lead | 80.8 | 91.5 | 13.2*(a) | 0-10 |
| Lithium | | | | |
| Magnesium | anr | | | |
| Manganese | anr | | | |
| Molybdenum | anr | | | |
| Nickel | 57.9 | 72.0 | 24.4*(a) | 0-10 |
| Phosphorus | | | | |
| Potassium | anr | | | |
| Selenium | 5.50 | 0.00 | 100.0(b) | 0-10 |
| Silicon | | | | |
| Silver | 2.80 | 4.00 | 42.9 (b) | 0-10 |
| Sodium | anr | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | 369 | 476 | 28.9*(a) | 0-10 |

Associated samples MP5762: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

SERIAL DILUTION RESULTS SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5762
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

- (*) Outside of QC limits
- (anr) Analyte not requested
- (a) Serial dilution indicates possible matrix interference.
- (b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5763
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 09/15/11

| Metal | RL | IDL | MDL | MB raw | final |
|------------|-------|--------|-------|-----------|-------|
| Aluminum | 25 | .14 | 1.2 | | |
| Antimony | 0.20 | .001 | .0095 | | |
| Arsenic | 0.40 | .049 | .22 | 0.31 | <0.40 |
| Barium | 1.0 | .0035 | .1 | | |
| Beryllium | 0.10 | .0075 | .014 | | |
| Boron | 20 | .97 | 1 | | |
| Cadmium | 0.050 | .023 | .048 | | |
| Calcium | 200 | 1.8 | 8.2 | | |
| Chromium | 1.0 | .021 | .24 | | |
| Cobalt | 0.10 | .0033 | .003 | | |
| Copper | 1.0 | .011 | .063 | | |
| Iron | 20 | .81 | 3.7 | | |
| Lead | 0.25 | .0012 | .015 | | |
| Magnesium | 50 | .067 | 2.6 | | |
| Manganese | 0.50 | .007 | .029 | | |
| Molybdenum | 0.50 | .0044 | .023 | | |
| Nickel | 1.0 | .0029 | .031 | | |
| Phosphorus | 30 | 1.8 | 3.5 | | |
| Potassium | 100 | 2 | 3.2 | | |
| Selenium | 0.20 | .075 | .19 | | |
| Silver | 0.050 | .0008 | .002 | | |
| Sodium | 250 | .8 | 4.4 | | |
| Strontium | 10 | .004 | .04 | | |
| Thallium | 0.10 | .015 | .02 | | |
| Tin | 5.0 | .006 | .028 | | |
| Titanium | 1.0 | .035 | .062 | | |
| Uranium | 0.25 | .00038 | .0009 | | |
| Vanadium | 2.0 | .052 | .29 | | |
| Zinc | 5.0 | .039 | .12 | | |

Associated samples MP5763: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5763
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 09/15/11

| Metal | D27497-1 Original MS | | SpikeLot MPICPALL % Rec | QC Limits |
|------------|-------------------------|-----|----------------------------|--------------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 1.5 | 109 | 115 | 93.8 60-119 |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | anr | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | anr | | | |
| Silver | anr | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | anr | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP5763: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5763
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 09/15/11

| Metal | D27497-1 Original MSD | | SpikeLot MPICPALL % Rec | MSD RPD | QC Limit | |
|------------|--------------------------|-----|----------------------------|------------|-------------|----|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | 1.5 | 112 | 112 | 98.5 | 2.7 | 20 |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | anr | | | | | |
| Calcium | | | | | | |
| Chromium | | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | | | | | | |
| Lead | anr | | | | | |
| Magnesium | | | | | | |
| Manganese | | | | | | |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Phosphorus | | | | | | |
| Potassium | | | | | | |
| Selenium | anr | | | | | |
| Silver | anr | | | | | |
| Sodium | | | | | | |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | anr | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP5763: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5763
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 09/15/11

| Metal | BSP Result | Spikelot MPICPALL | % Rec | QC Limits |
|------------|------------|-------------------|-------|-----------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 93.2 | 100 | 93.2 | 80-120 |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | anr | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | anr | | | |
| Silver | anr | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | anr | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP5763: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

9.3.3
 9

SERIAL DILUTION RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5763
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 09/15/11

| Metal | D27497-1 Original | SDL 5:25 | %DIF | QC Limits |
|-------|----------------------|----------|------|--------------|
|-------|----------------------|----------|------|--------------|

| | | | | |
|------------|------|------|----------|------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 18.0 | 15.8 | 14.2 (a) | 0-10 |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | anr | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | anr | | | |
| Silver | anr | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | anr | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP5763: D27497-1, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8, D27497-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5765
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date: 09/15/11

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-----|-----|-----------|-------|
| Aluminum | 500 | 30 | 30 | | |
| Antimony | 150 | 16 | 16 | | |
| Arsenic | 130 | 30 | 30 | | |
| Barium | 50 | 5.5 | 5.5 | | |
| Beryllium | 50 | 2.2 | 2.5 | | |
| Boron | 250 | 24 | 24 | | |
| Cadmium | 50 | 1.4 | 1.4 | | |
| Calcium | 2000 | 48 | 75 | 232 | <2000 |
| Chromium | 50 | .9 | 4 | | |
| Cobalt | 25 | 1.8 | 1.8 | | |
| Copper | 50 | 4.3 | 14 | | |
| Iron | 350 | 17 | 65 | | |
| Lead | 250 | 8 | 11 | | |
| Lithium | 10 | 1.4 | 6 | | |
| Magnesium | 1000 | 29 | 50 | -26 | <1000 |
| Manganese | 25 | .27 | 1.6 | | |
| Molybdenum | 50 | 2.3 | 4.4 | | |
| Nickel | 150 | 2.2 | 5 | | |
| Phosphorus | 500 | 55 | 100 | | |
| Potassium | 5000 | 280 | 280 | | |
| Selenium | 250 | 19 | 19 | | |
| Silicon | 250 | 19 | 19 | | |
| Silver | 150 | .9 | 1.6 | | |
| Sodium | 2000 | 570 | 570 | -79 | <2000 |
| Strontium | 25 | | 1.3 | | |
| Thallium | 50 | 15 | 15 | | |
| Tin | 250 | 28 | 50 | | |
| Titanium | 50 | .55 | 1.6 | | |
| Uranium | 250 | 7.5 | 18 | | |
| Vanadium | 50 | .8 | 1.1 | | |
| Zinc | 150 | 1.4 | 9 | | |

Associated samples MP5765: D27497-1A, D27497-2A, D27497-3A, D27497-4A, D27497-5A, D27497-6A, D27497-7A, D27497-8A, D27497-10A

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5765
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5765
 Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
 Units: ug/l

Prep Date: 09/15/11

| Metal | D27497-7A Original MS | | SpikeLot MPICPALL % Rec | | QC Limits |
|------------|--------------------------|--------|----------------------------|-------|--------------|
| Aluminum | | | | | |
| Antimony | | | | | |
| Arsenic | | | | | |
| Barium | | | | | |
| Beryllium | | | | | |
| Boron | | | | | |
| Cadmium | | | | | |
| Calcium | 85800 | 222000 | 125000 | 109.0 | 75-125 |
| Chromium | | | | | |
| Cobalt | | | | | |
| Copper | | | | | |
| Iron | | | | | |
| Lead | | | | | |
| Lithium | | | | | |
| Magnesium | 6370 | 133000 | 125000 | 101.3 | 75-125 |
| Manganese | | | | | |
| Molybdenum | | | | | |
| Nickel | | | | | |
| Phosphorus | | | | | |
| Potassium | | | | | |
| Selenium | | | | | |
| Silicon | | | | | |
| Silver | | | | | |
| Sodium | 443000 | 599000 | 125000 | 124.8 | 75-125 |
| Strontium | | | | | |
| Thallium | | | | | |
| Tin | | | | | |
| Titanium | | | | | |
| Uranium | | | | | |
| Vanadium | | | | | |
| Zinc | | | | | |

Associated samples MP5765: D27497-1A, D27497-2A, D27497-3A, D27497-4A, D27497-5A, D27497-6A, D27497-7A, D27497-8A, D27497-10A

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5765
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5765
 Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
 Units: ug/l

Prep Date: 09/15/11

| Metal | D27497-7A Original MSD | | SpikeLot MPICPALL % Rec | | MSD RPD | QC Limit |
|------------|---------------------------|--------|----------------------------|-------|------------|-------------|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | | | | | | |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | | | | | | |
| Calcium | 85800 | 218000 | 125000 | 105.8 | 1.8 | 20 |
| Chromium | | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | | | | | | |
| Lead | | | | | | |
| Lithium | | | | | | |
| Magnesium | 6370 | 131000 | 125000 | 99.7 | 1.5 | 20 |
| Manganese | | | | | | |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Phosphorus | | | | | | |
| Potassium | | | | | | |
| Selenium | | | | | | |
| Silicon | | | | | | |
| Silver | | | | | | |
| Sodium | 443000 | 583000 | 125000 | 112.0 | 2.7 | 20 |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP5765: D27497-1A, D27497-2A, D27497-3A, D27497-4A, D27497-5A, D27497-6A, D27497-7A, D27497-8A, D27497-10A

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5765
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D27497
 Account: WESTCOL - Weston Solutions, Inc.
 Project: Gunnison Energy

QC Batch ID: MP5765
 Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
 Units: ug/l

Prep Date: 09/15/11

| Metal | BSP Result | Spikelot MPICPALL | % Rec | QC Limits |
|------------|------------|-------------------|-------|-----------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | 134000 | 125000 | 107.2 | 80-120 |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | | | | |
| Lithium | | | | |
| Magnesium | 129000 | 125000 | 103.2 | 80-120 |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | | | | |
| Silicon | | | | |
| Silver | | | | |
| Sodium | 132000 | 125000 | 105.6 | 80-120 |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP5765: D27497-1A, D27497-2A, D27497-3A, D27497-4A, D27497-5A, D27497-6A, D27497-7A, D27497-8A, D27497-10A

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

QC Batch ID: MP5765
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|-------------------------|----------------|------|--------------|----------|-----------------|---------------|---------------|--------------|
| Bromide | GP5537/GN11724 | 0.20 | 0.0 | mg/l | 20 | 20.2 | 101.0 | 90-110% |
| Chloride | GP5537/GN11724 | 0.50 | 0.0 | mg/l | 20 | 20.0 | 100.0 | 90-110% |
| Solids, Total Dissolved | GN11571 | 10 | 0.0 | mg/l | 400 | 400 | 100.0 | 90-110% |
| Specific Conductivity | GP5490/GN11646 | | | umhos/cm | 9980 | 9940 | 99.6 | 90-110% |
| Sulfate | GP5537/GN11724 | 0.50 | 0.0 | mg/l | 30 | 28.9 | 96.3 | 90-110% |
| pH | GN11543 | | | su | 8.00 | 7.96 | 99.5 | 99.3-100.7% |

Associated Samples:

Batch GN11543: D27497-1, D27497-10, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8

Batch GN11571: D27497-11, D27497-9

Batch GP5490: D27497-1, D27497-10, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8

Batch GP5537: D27497-11, D27497-9

(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|-------------------------|----------|-----------|-------|-----------------|------------|-----|-----------|
| Redox Potential Vs H2 | GN11544 | D27490-1 | mv | 432 | 434 | 0.5 | 0-20% |
| Solids, Total Dissolved | GN11571 | D27514-1 | mg/l | 150 | 150 | 0.0 | 0-25% |

Associated Samples:

Batch GN11544: D27497-1, D27497-10, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8

Batch GN11571: D27497-11, D27497-9

(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------|----------------|-----------|-------|-----------------|--------------|-----------|-------|-----------|
| Bromide | GP5537/GN11724 | D27724-2 | mg/l | 0.0 | 2.5 | 2.6 | 104.0 | 80-120% |
| Chloride | GP5537/GN11724 | D27724-2 | mg/l | 3.9 | 10 | 14.3 | 104.0 | 80-120% |
| Sulfate | GP5537/GN11724 | D27724-2 | mg/l | 0.0 | 10 | 10 | 100.0 | 80-120% |

Associated Samples:

Batch GP5537: D27497-11, D27497-9

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

10.3
10

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D27497
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|----------|----------------|-----------|-------|-----------------|--------------|------------|-----|----------|
| Bromide | GP5537/GN11724 | D27724-2 | mg/l | 0.0 | 2.5 | 2.6 | 0.0 | 20% |
| Chloride | GP5537/GN11724 | D27724-2 | mg/l | 3.9 | 10 | 14.3 | 0.0 | 20% |
| Sulfate | GP5537/GN11724 | D27724-2 | mg/l | 0.0 | 10 | 10 | 0.0 | 20% |

Associated Samples:

Batch GP5537: D27497-11, D27497-9

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

10.4
10

Misc. Forms

Custody Documents and Other Forms

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

- Chain of Custody





CHAIN OF CUSTODY

4036 Youngfield St., Wheat Ridge, CO 80033
303-425-6021 FAX: 303-425-6854

| | |
|-------------------|---------------|
| Accutest Job #: | D27497 |
| Accutest Quote #: | 0 |
| AMS P.O. #: | |
| Project No.: | |

| Client Information | | | Subcontract Laboratory Information | | | | | | Analytical Information | | | | | | |
|---|-------------------------------------|--------------------------------------|---|--|--|---|--------------|--|------------------------|-------|--|------|----------|--|--|
| Name Accutest Mountain States (AMS) | | | Name Accutest - New England | | | | | | | | | | | | |
| Address 4036 Youngfield St. | | | Address 495 Technology Center West, BLDG C | | | | | | | | | | | | |
| City Wheat Ridge, | State CO | Zip 80033 | City Marlborough | State MA | Zip 01752 | | | | | | | | | | |
| Send Report to: Tiffany Pham | | | Contact: Sample Management | | | | | | | | | | | | |
| Any questions contact: Shea Greiner | | | | | | | | | | | | | | | |
| Phone/Fax #: (303) 425-6021; (303)425-6854 | | | Phone: (508) 481-6200 | | | | | | | | | | | | |
| Field ID / Point of Collection | | Collection | | | Matrix | # of bottles | Preservation | | | | | XCRA | Comments | | |
| | | Date | Time | | | | HCL | NaOH | HNO3 | H2SO4 | None | | | | |
| D27497 -1 | | 9/12/11 | 11:55 AM | | Soil | 1 | | | | | | X | | | |
| -2 | | | 12:05 PM | | Soil | 1 | | | | | | X | | | |
| -3 | | | 12:40 PM | | Soil | 1 | | | | | | X | | | |
| -4 | | | 12:50 PM | | Soil | 1 | | | | | | X | | | |
| -5 | | | 1:15 PM | | Soil | 1 | | | | | | X | | | |
| -6 | | | 1:20 PM | | Soil | 1 | | | | | | X | | | |
| -7 | | | 1:45 PM | | Soil | 1 | | | | | | X | | | |
| -8 | | | 1:50 PM | | Soil | 1 | | | | | | X | | | |
| -10 | | | 2:40 PM | | Soil | 1 | | | | | | X | | | |
| | | | | | | | | | | | | | | | |
| Turnaround Information | | | Data Deliverable Information | | | | | | Comments / Remarks | | | | | | |
| <input checked="" type="checkbox"/> 10 Business Day Standard <input type="checkbox"/> Other _____ (Days) | | | Approved By: _____ | | | <input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Commercial "BN" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Tier 1 | | <input type="checkbox"/> PDF <input type="checkbox"/> Compact Disk Deliverable <input type="checkbox"/> Electronic Delivery: _____ <input type="checkbox"/> State Forms <input type="checkbox"/> Other (Specify) _____ | | | Please use Colorado regulations and RLs. <div style="text-align: right; font-size: 1.2em;">10A</div> | | | | |
| 10 Day Turnaround Hardcopy, RUSH is FAX Data unless previously approved. | | | | | | | | | | | | | | | |
| Sample Custody must be documented below each time samples change possession, including courier delivery. | | | | | | For Subcontract Laboratory Use Only | | | | | | | | | |
| Relinquished by: 1 | Date & Time: 9/13/11 | Received By: 1 FedEx | Date & Time: 1 | Seal #: | Headspace: Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> | Preserved where applicable: <input type="checkbox"/> | | | | | | | | | |
| Relinquished by: 2 | Date & Time: 9/14/11 9:15 | Received By: 2 [Signature] | Date & Time: 2 9/14/11 9:15 | Temperature °C 2.1 On Ice <input checked="" type="checkbox"/> | | | | | | | | | | | |
| Relinquished by: 3 | Date & Time: | Received By: 3 | Date & Time: 3 | | | | | | | | | | | | |

D27497: Chain of Custody

Page 1 of 2

Accutest Labs of New England, Inc.

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D27497

Client: AMS

Immediate Client Services Action Required: No

Date / Time Received: 9/14/2011

Delivery Method:

Client Service Action Required at Login: No

Project: D27494

No. Coolers: 1

Airbill #'s:

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

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

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

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

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

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

Comments

General Chemistry

QC Data Summaries

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
 GENERAL CHEMISTRY

Login Number: D27497
 Account: ALMS - Accutest Mountain States
 Project: WESTCOL: Gunnison Energy

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|----------------------|-----------------|------|-----------|-------|--------------|------------|------------|-----------|
| Chromium, Hexavalent | GP13513/GN36166 | 0.40 | 0.19 | mg/kg | 40 | 44.1 | 110.3 | 80-120% |
| Chromium, Hexavalent | GP13513/GN36166 | | | mg/kg | 805 | 911 | 113.2 | 80-120% |

Associated Samples:

Batch GP13513: D27497-1, D27497-10, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8

(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D27497
Account: ALMS - Accutest Mountain States
Project: WESTCOL: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|----------------------|-----------------|-----------|-------|-----------------|------------|---------|-----------|
| Chromium, Hexavalent | GP13513/GN36166 | D27611-1 | mg/kg | 0.21 | 0.28 | 28.6(a) | 0-20% |

Associated Samples:

Batch GP13513: D27497-1, D27497-10, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8

(*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

12.2
12

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D27497
Account: ALMS - Accutest Mountain States
Project: WESTCOL: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------------------|-----------------|-----------|-------|-----------------|--------------|-----------|-------|-----------|
| Chromium, Hexavalent | GP13513/GN36166 | D27611-1 | mg/kg | 0.21 | 44.7 | 49.4 | 110.0 | 75-125% |
| Chromium, Hexavalent | GP13513/GN36166 | D27611-1 | mg/kg | 0.21 | 861 | 981 | 113.9 | 75-125% |

Associated Samples:

Batch GP13513: D27497-1, D27497-10, D27497-2, D27497-3, D27497-4, D27497-5, D27497-6, D27497-7, D27497-8

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

12.3
12

Technical Report for

Weston Solutions, Inc.

Gunnison Energy

14798

Accutest Job Number: D28616

Sampling Date: 10/13/11

Report to:

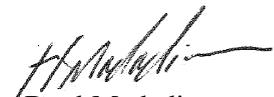
Weston Solutions, Inc.
143 Union Boulevard
Lakewood, CO 80228
roy.weindorf@westonsolutions.com

ATTN: Roy Weindorf

Total number of pages in report: **19**



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



Brad Madadian
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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

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1

2

3

4

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Sample Summary

Weston Solutions, Inc.

Job No: D28616

Gunnison Energy
Project No: 14798

| Sample Number | Collected | | Matrix | | | Client Sample ID |
|---------------|-----------|----------|----------|------|--------------|------------------|
| | Date | Time By | Received | Code | Type | |
| D28616-2 | 10/13/11 | 16:20 RW | 10/14/11 | AQ | Ground Water | HK134-PIT |

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Weston Solutions, Inc.

Job No D28616

Site: Gunnison Energy

Report Date 10/27/2011 1:41:12 PM

On 10/14/2011, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D28616 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ

Batch ID: V7V519

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D28769-1MS, D28769-1MSD were used as the QC samples indicated.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix AQ

Batch ID: GP5752

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D28616-2MS, D28616-2MSD were used as the QC samples for the Chloride, Sulfate, Chloride analysis.

Wet Chemistry By Method SM20 2540C

Matrix AQ

Batch ID: GN12067

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D28581-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

| | | |
|------------------------------------|--|--------------------------------|
| Client Sample ID: HK134-PIT | | Date Sampled: 10/13/11 |
| Lab Sample ID: D28616-2 | | Date Received: 10/14/11 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8260B | | |
| Project: Gunnison Energy | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 7V09753.D | 1 | 10/22/11 | BR | n/a | n/a | V7V519 |
| Run #2 | | | | | | | |

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

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.25 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 0.50 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 4.0 | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 67-131% |
| 2037-26-5 | Toluene-D8 | 99% | | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 65-130% |

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

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

Report of Analysis

| | |
|------------------------------------|--------------------------------|
| Client Sample ID: HK134-PIT | Date Sampled: 10/13/11 |
| Lab Sample ID: D28616-2 | Date Received: 10/14/11 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: Gunnison Energy | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-------------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride | 552 | 5.0 | mg/l | 10 | 10/21/11 11:51 | NS | EPA 300/SW846 9056 |
| Solids, Total Dissolved | 1400 | 10 | mg/l | 1 | 10/18/11 | JD | SM20 2540C |
| Sulfate | 122 | 2.5 | mg/l | 5 | 10/21/11 11:27 | NS | EPA 300/SW846 9056 |

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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

FED-EX Tracking #
Accutest Quote #
Bottle Order Control # SG-10/3/2011-9
Accutest Job # D28616

| Client / Reporting Information | | Project Information | | | | Requested Analysis (see TEST CODE sheet) | | | | | | | | | | Matrix Codes |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name Weston Solutions, Inc. | | Project Name Gunnison Energy | | | | <div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">COGCC Table 910-1.1st</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="font-size: 2em; margin-top: 20px;">X</div> <div style="font-size: 2em; margin-top: 10px;">X</div> <div style="font-size: 2em; margin-top: 10px;">—</div> <div style="font-size: 2em; margin-top: 10px;">—</div> </div> | | | | | | | | | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank |
| Street Address 1435 Garrison St Suite 100 | | Street: | | | | | | | | | | | | | | |
| City State Zip Lakewood CO 80215 | | City: Hotchkiss | | | | | | | | | | | | | | |
| Project Contact Roy Weindorf roy.weindorf@westonsolutions.com | | Project# 14798 | | | | | | | | | | | | | | |
| Phone # 303-729-6146 | | Fax # 6101 | | | | Billing Information (If different from Report to) | | | | | | | | | | |
| Sampler(s) Name(s) Roy Weindorf | | Project Manager Ken Miller | | | | Company Name Gunnison Energy Corporation | | | | | | | | | | LAB USE ONLY |
| Phone # 6101 | | Project PO# | | | | Street Address 1801 Broadway Suite 1200 | | | | | | | | | | |
| Field ID / Point of Collection RW | | MECH/DI /Vial # = | | | | City State Zip Denver CO 80202 | | | | | | | | | | |
| Date 10/13/11 | | Time 1615 | | | | Attention: Lee Fyock | | | | | | | | | | |
| Sample # HK134-SB07-1011 Seep | | Sampled by RW | | | | Metric GW | | | | | | | | | | |
| Sample # 08-1011 Pit | | Metric GW | | | | # of bottles 5 | | | | | | | | | | |
| Sample # 09-1011 RW | | Metric GW | | | | # of bottles 5 | | | | | | | | | | |

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

| Sample Custody must be documented below each time samples change possession, including courier delivery. | | | | | | | |
|--|----------------------------|---------------------------------|--------------------|---------------------------|---|---|--|
| Relinquished by: [Signature] | Date Time: 10/14/11 | Received By: [Signature] | Date Time: | Relinquished By: | Date Time: | Received By: | Date Time: |
| 1 | | 1 | | 2 | | 2 | |
| Relinquished by: [Signature] | Date Time: | Received By: | Date Time: | Relinquished By: | Date Time: | Received By: | Date Time: |
| 3 | | 3 | | 4 | | 4 | |
| Relinquished by: | Date Time: | Received By: | Date Time: | Custody Seal # 410 | <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Preserved where applicable <input type="checkbox"/> | On Ice <input checked="" type="checkbox"/> Cooler Temp. 2.6 |
| 5 | | 5 | | | | | |

D28616: Chain of Custody

Page 1 of 2

Accutest Job Number: D28616

Client: WESTON SOLUTIONS, INC

Immediate Client Services Action Required: No

Date / Time Received: 10/14/2011 10:50:00 A

No. Coolers: 1

Client Service Action Required at Login: No

Project: GUNNISON ENERGY

Airbill #'s: HD

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

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

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

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

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

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

Comments

4.1
4

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D28616
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V7V519-MB | 7V09750.D | 1 | 10/22/11 | BR | n/a | n/a | V7V519 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D28616-2

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 4.0 | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Limits | |
|------------|-----------------------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 67-131% |
| 2037-26-5 | Toluene-D8 | 102% | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | 65-130% |

Blank Spike Summary

Job Number: D28616
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V7V519-BS | 7V09751.D | 1 | 10/22/11 | BR | n/a | n/a | V7V519 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D28616-2

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|----------------|---------------|-------------|----------|--------|
| 71-43-2 | Benzene | 50 | 47.1 | 94 | 70-130 |
| 100-41-4 | Ethylbenzene | 50 | 48.5 | 97 | 70-130 |
| 108-88-3 | Toluene | 50 | 48.9 | 98 | 70-130 |
| 1330-20-7 | Xylene (total) | 150 | 146 | 97 | 56-138 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|------------|-----------------------|------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 67-131% |
| 2037-26-5 | Toluene-D8 | 101% | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 65-130% |

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D28616
Account: WESTCOL Weston Solutions, Inc.
Project: Gunnison Energy

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|-----|----------|----|-----------|------------|------------------|
| D28769-1MS | 7V09755.D | 100 | 10/22/11 | BR | n/a | n/a | V7V519 |
| D28769-1MSD | 7V09756.D | 100 | 10/22/11 | BR | n/a | n/a | V7V519 |
| D28769-1 | 7V09754.D | 50 | 10/22/11 | BR | n/a | n/a | V7V519 |

The QC reported here applies to the following samples:

Method: SW846 8260B

D28616-2

| CAS No. | Compound | D28769-1 ug/l | Spike Q ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|----------------|------------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | 5680 | 5000 | 10400 | 94 | 10800 | 102 | 4 | 61-133/30 |
| 100-41-4 | Ethylbenzene | 176 | 5000 | 4860 | 94 | 5050 | 97 | 4 | 70-130/30 |
| 108-88-3 | Toluene | 8340 | 5000 | 12500 | 83 | 12900 | 91 | 3 | 70-130/30 |
| 1330-20-7 | Xylene (total) | 4420 | 15000 | 18500 | 94 | 19400 | 100 | 5 | 56-138/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | D28769-1 | Limits |
|------------|-----------------------|-----|------|----------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 97% | 92% | 67-131% |
| 2037-26-5 | Toluene-D8 | 94% | 95% | 100% | 65-130% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 100% | 89% | 65-130% |

5.3.1
5

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D28616
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|-------------------------|----------------|------|--------------|-------|-----------------|---------------|---------------|--------------|
| Chloride | GP5752/GN12143 | 0.50 | 0.0 | mg/l | 20 | 18.9 | 94.5 | 90-110% |
| Solids, Total Dissolved | GN12067 | 10 | 0.0 | mg/l | 400 | 402 | 100.5 | 90-110% |
| Sulfate | GP5752/GN12143 | 0.50 | 0.0 | mg/l | 30 | 28.9 | 96.3 | 90-110% |

Associated Samples:
Batch GN12067: D28616-2
Batch GP5752: D28616-2
(*) Outside of QC limits

6.1

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D28616
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|-------------------------|----------|-----------|-------|-----------------|------------|-----|-----------|
| Solids, Total Dissolved | GN12067 | D28581-1 | mg/l | 640 | 652 | 1.9 | 0-25% |

Associated Samples:
Batch GN12067: D28616-2
(*) Outside of QC limits

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D28616
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------|----------------|-----------|-------|-----------------|--------------|-----------|-------|-----------|
| Chloride | GP5752/GN12143 | D28616-2 | mg/l | 552 | 200 | 761 | 104.5 | 80-120% |
| Sulfate | GP5752/GN12143 | D28616-2 | mg/l | 122 | 200 | 313 | 95.5 | 80-120% |

Associated Samples:
Batch GP5752: D28616-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

6.3

6

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D28616
Account: WESTCOL - Weston Solutions, Inc.
Project: Gunnison Energy

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|----------|----------------|-----------|-------|-----------------|--------------|------------|-----|----------|
| Chloride | GP5752/GN12143 | D28616-2 | mg/l | 552 | 200 | 755 | 0.8 | 20% |
| Sulfate | GP5752/GN12143 | D28616-2 | mg/l | 122 | 200 | 312 | 0.3 | 20% |

Associated Samples:
Batch GP5752: D28616-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

6.4

6

PHOTOGRAPH NO: 1

Date: 10/13/2011

Direction: NW

Photographer:

Roy Weindorf

Description:

Overview of Pit 1-34 showing ramp into pit and standing water in NW corner.



PHOTOGRAPH NO: 2

Date: 10/13/2011

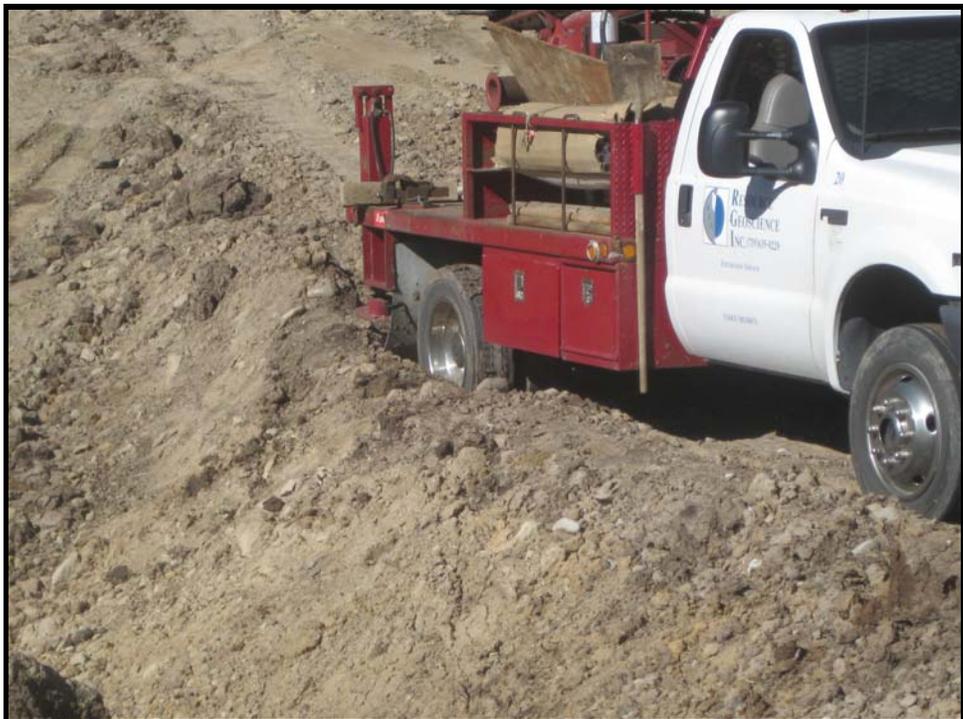
Direction: N

Photographer:

Roy Weindorf

Description:

View of drill rig in pit. The soft soil prevented moving around inside of the pit to additional boring locations.



PHOTOGRAPH NO: 3

Date: 10/13/2011

Direction: SE

Photographer:

Roy Weindorf

Description:

Location of SB-07 prior to geoprobe refusal at surface.



PHOTOGRAPH NO: 4

Date: 10/13/2011

Direction: W

Photographer:

Roy Weindorf

Description:

View of standing water ~3 inches deep. Water is presumably melt water from a recent snow event. Also shown layers of consolidated shale on floor and weathered shale in side wall.



PHOTOGRAPH NO: 5

Date: 10/13/2011

Direction: N

Photographer:

Roy Weindorf

Description:

Location of SB-08 outside of fence and downhill (SE) from pit.



PHOTOGRAPH NO: 6

Date: 10/13/2011

Direction: NW

Photographer:

Roy Weindorf

Description:

Cattle crossing in drainage SE of pit. Standing water was observed but no active seep was identified.

