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## Technical Report for

**CCI**

**Summit 1 Reclaim, San Miguel County**

**AFE-100066-7010-7400**

**Accutest Job Number: D65436**

**Sampling Date: 12/05/14**

### Report to:

**CCI**  
**741 County RD U-29E**  
**Redvale, CO 81431**  
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**ATTN: Danny White**

**Total number of pages in report: 84**



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



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

**Client Service contact: Cristina Berrutti 303-425-6021**

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

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Test results relate only to samples analyzed.

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## Sample Summary

CCI

Job No: D65436

**Summit 1 Reclaim, San Miguel County**  
**Project No: AFE-100066-7010-7400**

| Sample Number | Collected |          | Received | Matrix |      | Client Sample ID   |
|---------------|-----------|----------|----------|--------|------|--------------------|
|               | Date      | Time By  |          | Code   | Type |                    |
| D65436-1      | 12/05/14  | 12:20 DW | 12/09/14 | SO     | Soil | 1 DIESEL FUEL TANK |
| D65436-1A     | 12/05/14  | 12:20 DW | 12/09/14 | SO     | Soil | 1 DIESEL FUEL TANK |
| D65436-2      | 12/05/14  | 12:20 DW | 12/09/14 | SO     | Soil | 2 CUTTINGS BINS    |
| D65436-2A     | 12/05/14  | 12:20 DW | 12/09/14 | SO     | Soil | 2 CUTTINGS BINS    |

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



## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** CCI

**Job No** D65436

**Site:** Summit 1 Reclaim, San Miguel County

**Report Date** 12/16/2014 9:58:56 AM

On 12/09/2014, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D65436 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

|                  |                           |
|------------------|---------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> F:VF2307 |
|------------------|---------------------------|

- The data for SW846 8260B meets quality control requirements.
- D65436-1: Sample was prepared from a bulk container. Analysis performed at Accutest Laboratories, Orlando FL.
- D65436-2: Sample was prepared from a bulk container. Analysis performed at Accutest Laboratories, Orlando FL.

### Extractables by GCMS By Method SW846 8270D BY SIM

|                  |                            |
|------------------|----------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> F:OP54208 |
|------------------|----------------------------|

- The data for SW846 8270D BY SIM meets quality control requirements.
- D65436-1: Analysis performed at Accutest Laboratories, Orlando FL.
- D65436-2: Analysis performed at Accutest Laboratories, Orlando FL.

### Volatiles by GC By Method SW846 8015B

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> GGB1507 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- Sample(s) D65486-1MS, D65486-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

### Extractables by GC By Method SW846-8015B

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> OP11056 |
|------------------|--------------------------|

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) D65477-2MS, D65477-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

## Metals By Method SW846 6010C

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> AQ | <b>Batch ID:</b> MP14749 |
|------------------|--------------------------|

- All samples were digested 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) D65436-1AMS, D65436-1AMSD, D65436-1ASDL were used as the QC samples for the metals analysis.

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> MP14734 |
|------------------|--------------------------|

- All samples were digested 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) D65477-2MS, D65477-2MSD, D65477-2SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Cadmium, Copper, Lead, Nickel, Zinc are outside control limits for sample MP14734-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP14734-SD1 for Zinc: Serial dilution indicates possible matrix interference.

## Metals By Method SW846 6020A

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> MP14735 |
|------------------|--------------------------|

- All samples were digested 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) D65477-2MS, D65477-2MSD, D65477-2SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Arsenic are outside control limits for sample MP14735-SD1. Probable cause due to sample homogeneity.
- MP14735-SD1 for Arsenic: Serial dilution indicates possible matrix interference.

## Metals By Method SW846 7471B

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> MP14751 |
|------------------|--------------------------|

- All samples were digested 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) D65477-2MS, D65477-2MSD were used as the QC samples for the metals analysis.

## Wet Chemistry By Method ASTM D1498-76M

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> GN27847 |
|------------------|--------------------------|

- Sample(s) D65431-1DUP were used as the QC samples for the Redox Potential Vs H2 analysis.

## Wet Chemistry By Method SM2540G-2011 M

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> GN27786 |
|------------------|--------------------------|

- The data for SM2540G-2011 M meets quality control requirements.

### Wet Chemistry By Method SW846 3060A/7196A

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> GP14228 |
|------------------|--------------------------|

- 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) D65477-2MS, D65477-2MSD, D65477-2DUP were used as the QC samples for the Chromium, Hexavalent analysis.
- The duplicate RPD(s) for Chromium, Hexavalent are outside control limits for sample GP14228-D1. RPD acceptable due to low duplicate and sample concentrations.

### Wet Chemistry By Method SW846 3060A/7196A M

|                  |                         |
|------------------|-------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> R25445 |
|------------------|-------------------------|

- The data for SW846 3060A/7196A M meets quality control requirements.
- D65436-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

|                  |                         |
|------------------|-------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> R25446 |
|------------------|-------------------------|

- The data for SW846 3060A/7196A M meets quality control requirements.
- D65436-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

### Wet Chemistry By Method SW846 9045D

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> GN27792 |
|------------------|--------------------------|

- The following samples were run outside of holding time for method SW846 9045D: D65436-1, D65436-2

### Wet Chemistry By Method USDA HANDBOOK 60

|                  |                          |
|------------------|--------------------------|
| <b>Matrix</b> SO | <b>Batch ID:</b> MP14749 |
|------------------|--------------------------|

- D65436-1A for Sodium Adsorption Ratio: Calculated as:  $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$
- D65436-2A for 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:** D65436

**Site:** POAGCORV: Summit 1 Reclaim, San Migual County

**Report Date:** 12/14/2014 11:36:15

2 Sample(s) were collected on 12/05/2014 and were received at Accutest SE on 12/10/2014 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of D65436. 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.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO

**Batch ID:** VF2307

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) D65437-2MS, D65437-2MSD were used as the QC samples indicated.

D65436-1: Sample was prepared from a bulk container.

D65436-2: Sample was prepared from a bulk container.

### Extractables by GCMS By Method SW846 8270D BY SIM

**Matrix:** SO

**Batch ID:** OP54208

All samples were extracted 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) D65436-1MS, D65436-1MSD were used as the QC samples indicated.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Kim Benham, Client Services (signature on file)

Date: December 14, 2014

# Summary of Hits

Job Number: D65436  
 Account: CCI  
 Project: Summit 1 Reclaim, San Migual County  
 Collected: 12/05/14



| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**D65436-1 1 DIESEL FUEL TANK**

|                                  |      |      |     |          |                     |
|----------------------------------|------|------|-----|----------|---------------------|
| TPH-DRO (C10-C28)                | 8.81 | 7.2  | 5.4 | mg/kg    | SW846-8015B         |
| Arsenic                          | 5.6  | 0.11 |     | mg/kg    | SW846 6020A         |
| Barium                           | 126  | 1.1  |     | mg/kg    | SW846 6010C         |
| Chromium                         | 5.4  | 1.1  |     | mg/kg    | SW846 6010C         |
| Copper                           | 4.7  | 1.1  |     | mg/kg    | SW846 6010C         |
| Lead                             | 10.0 | 5.4  |     | mg/kg    | SW846 6010C         |
| Nickel                           | 6.3  | 3.2  |     | mg/kg    | SW846 6010C         |
| Zinc                             | 18.5 | 3.2  |     | mg/kg    | SW846 6010C         |
| Specific Conductivity            | 796  | 1.0  |     | umhos/cm | SM 2510B-2011 MOD   |
| Chromium, Trivalent <sup>a</sup> | 4.8  | 2.1  |     | mg/kg    | SW846 3060A/7196A M |
| Redox Potential Vs H2            | 216  |      |     | mv       | ASTM D1498-76M      |
| pH                               | 8.92 |      |     | su       | SW846 9045D         |

**D65436-1A 1 DIESEL FUEL TANK**

|                                      |      |     |  |       |                  |
|--------------------------------------|------|-----|--|-------|------------------|
| Calcium                              | 56.3 | 2.0 |  | mg/l  | SW846 6010C      |
| Magnesium                            | 8.12 | 1.0 |  | mg/l  | SW846 6010C      |
| Sodium                               | 85.5 | 2.0 |  | mg/l  | SW846 6010C      |
| Sodium Adsorption Ratio <sup>b</sup> | 2.82 |     |  | ratio | USDA HANDBOOK 60 |

**D65436-2 2 CUTTINGS BINS**

|                                  |       |      |     |          |                     |
|----------------------------------|-------|------|-----|----------|---------------------|
| Chrysene <sup>c</sup>            | 3.5 J | 7.1  | 1.8 | ug/kg    | SW846 8270D BY SIM  |
| TPH-DRO (C10-C28)                | 32.4  | 7.2  | 5.4 | mg/kg    | SW846-8015B         |
| Arsenic                          | 7.7   | 0.11 |     | mg/kg    | SW846 6020A         |
| Barium                           | 111   | 1.1  |     | mg/kg    | SW846 6010C         |
| Chromium                         | 7.1   | 1.1  |     | mg/kg    | SW846 6010C         |
| Copper                           | 7.0   | 1.1  |     | mg/kg    | SW846 6010C         |
| Lead                             | 10.2  | 5.4  |     | mg/kg    | SW846 6010C         |
| Nickel                           | 8.9   | 3.3  |     | mg/kg    | SW846 6010C         |
| Zinc                             | 20.9  | 3.3  |     | mg/kg    | SW846 6010C         |
| Specific Conductivity            | 1410  | 1.0  |     | umhos/cm | SM 2510B-2011 MOD   |
| Chromium, Trivalent <sup>a</sup> | 6.4   | 2.1  |     | mg/kg    | SW846 3060A/7196A M |
| Redox Potential Vs H2            | 233   |      |     | mv       | ASTM D1498-76M      |
| pH                               | 8.83  |      |     | su       | SW846 9045D         |

**D65436-2A 2 CUTTINGS BINS**

|                                      |      |     |  |       |                  |
|--------------------------------------|------|-----|--|-------|------------------|
| Calcium                              | 143  | 2.0 |  | mg/l  | SW846 6010C      |
| Magnesium                            | 30.9 | 1.0 |  | mg/l  | SW846 6010C      |
| Sodium                               | 104  | 2.0 |  | mg/l  | SW846 6010C      |
| Sodium Adsorption Ratio <sup>b</sup> | 2.06 |     |  | ratio | USDA HANDBOOK 60 |

## Summary of Hits

**Job Number:** D65436  
**Account:** CCI  
**Project:** Summit 1 Reclaim, San Migual County  
**Collected:** 12/05/14



| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

- (a) Calculated as: (Chromium) - (Chromium, Hexavalent)
- (b) Calculated as:  $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$
- (c) Analysis performed at Accutest Laboratories, Orlando FL.

**Sample Results**

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**Report of Analysis**

---

## Report of Analysis

|  |  |
|--|--|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK<br><b>Lab Sample ID:</b> D65436-1<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846 8260B SW846 5030A<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.4 |
|--|--|

| Run #               | File ID    | DF | Analyzed | By  | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------|-----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | F0067379.D | 1  | 12/10/14 | AFL | 12/10/14 14:41 | n/a        | F:VF2307         |
| Run #2              |            |    |          |     |                |            |                  |

| Run #  | Initial Weight |
|--------|----------------|
| Run #1 | 4.41 g         |
| Run #2 |                |

**Purgeable Aromatics**

| CAS No.   | Compound       | Result | RL  | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2   | Benzene        | ND     | 6.1 | 1.2 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 6.1 | 1.2 | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 6.1 | 1.2 | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 18  | 3.3 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 113%   |        | 75-124% |
| 2037-26-5  | Toluene-D8            | 114%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 93%    |        | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |

(a) Sample was prepared from a bulk container. Analysis performed at Accutest Laboratories, Orlando FL.

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

4.1  
4

## Report of Analysis

|   |  |
|---|--|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK<br><b>Lab Sample ID:</b> D65436-1<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846 8270D BY SIM SW846 3550C<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.4 |
|---|--|

| Run #               | File ID   | DF | Analyzed | By  | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | W084291.D | 1  | 12/12/14 | AFL | 12/11/14  | F:OP54208  | F:SW3902         |
| 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     | 36  | 14  | ug/kg |   |
| 120-12-7 | Anthracene             | ND     | 36  | 9.0 | ug/kg |   |
| 56-55-3  | Benzo(a)anthracene     | ND     | 7.2 | 1.8 | ug/kg |   |
| 50-32-8  | Benzo(a)pyrene         | ND     | 7.2 | 1.8 | ug/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 7.2 | 1.8 | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 7.2 | 1.8 | ug/kg |   |
| 218-01-9 | Chrysene               | ND     | 7.2 | 1.8 | ug/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 7.2 | 1.8 | ug/kg |   |
| 206-44-0 | Fluoranthene           | ND     | 36  | 9.0 | ug/kg |   |
| 86-73-7  | Fluorene               | ND     | 36  | 14  | ug/kg |   |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND     | 7.2 | 1.8 | ug/kg |   |
| 91-20-3  | Naphthalene            | ND     | 36  | 14  | ug/kg |   |
| 129-00-0 | Pyrene                 | ND     | 36  | 9.0 | ug/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 92%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 85%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 103%   |        | 45-119% |

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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

|  |  |
|--|--|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK<br><b>Lab Sample ID:</b> D65436-1<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846 8015B<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.4 |
|--|--|

| Run #  | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB27961.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |
| 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     | 5.8     | mg/kg |   |
| CAS No.  | Surrogate Recoveries   | Run# 1 | Run# 2 | Limits  |       |   |
| 120-82-1 | 1,2,4-Trichlorobenzene | 97%    |        | 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

4.1  
4

## Report of Analysis

|   |  |
|---|--|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK<br><b>Lab Sample ID:</b> D65436-1<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846-8015B SW846 3546<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.4 |
|---|--|

| Run #  | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FI20165.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |
| Run #2 |           |    |          |    |           |            |                  |

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

| CAS No. | Compound             | Result | RL     | MDL     | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
|         | TPH-DRO (C10-C28)    | 8.81   | 7.2    | 5.4     | mg/kg |   |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 84-15-1 | o-Terphenyl          | 91%    |        | 20-130% |       |   |

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

4.1  
4

## Report of Analysis

|  |                         |
|--|-------------------------|
| Client Sample ID: 1 DIESEL FUEL TANK         | Date Sampled: 12/05/14  |
| Lab Sample ID: D65436-1                      | Date Received: 12/09/14 |
| Matrix: SO - Soil                            | Percent Solids: 92.4    |
| Project: Summit 1 Reclaim, San Migual County |                         |

## Metals Analysis

| Analyte  | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic  | 5.6     | 0.11  | mg/kg | 5  | 12/10/14 | 12/11/14 KV | SW846 6020A <sup>1</sup> | SW846 3050B <sup>6</sup> |
| Barium   | 126     | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Cadmium  | < 1.1   | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Chromium | 5.4     | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Copper   | 4.7     | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Lead     | 10.0    | 5.4   | mg/kg | 1  | 12/10/14 | 12/15/14 JB | SW846 6010C <sup>4</sup> | SW846 3050B <sup>5</sup> |
| Mercury  | < 0.089 | 0.089 | mg/kg | 1  | 12/12/14 | 12/12/14 JB | SW846 7471B <sup>3</sup> | SW846 7471B <sup>7</sup> |
| Nickel   | 6.3     | 3.2   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Selenium | < 5.4   | 5.4   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Silver   | < 3.2   | 3.2   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Zinc     | 18.5    | 3.2   | mg/kg | 1  | 12/10/14 | 12/15/14 JB | SW846 6010C <sup>4</sup> | SW846 3050B <sup>5</sup> |

(1) Instrument QC Batch: MA5572

(2) Instrument QC Batch: MA5576

(3) Instrument QC Batch: MA5581

(4) Instrument QC Batch: MA5585

(5) Prep QC Batch: MP14734

(6) Prep QC Batch: MP14735

(7) Prep QC Batch: MP14751

RL = Reporting Limit

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK         | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-1                      | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.4    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

**General Chemistry**

| Analyte                                 | Result | RL  | Units    | DF | Analyzed       | By  | Method              |
|---|--------|-----|----------|----|----------------|-----|---------------------|
| <b>%solids</b>                          |        |     |          |    |                |     |                     |
| <b>Solids, Percent</b>                  | 92.4   |     | %        | 1  | 12/10/14       | SWT | SM2540G-2011 M      |
| <b>prep: DEPT.OF AG, BOOK N9</b>        |        |     |          |    |                |     |                     |
| <b>Specific Conductivity</b>            | 796    | 1.0 | umhos/cm | 1  | 12/11/14       | JD  | SM 2510B-2011 MOD   |
| <b>Chromium, Hexavalent</b>             | < 1.0  | 1.0 | mg/kg    | 1  | 12/12/14 09:30 | JF  | SW846 3060A/7196A   |
| <b>Chromium, Trivalent <sup>a</sup></b> | 4.8    | 2.1 | mg/kg    | 1  | 12/12/14 09:30 | JF  | SW846 3060A/7196A M |
| <b>Redox Potential Vs H2</b>            | 216    |     | mv       | 1  | 12/12/14       | AK  | ASTM D1498-76M      |
| <b>pH</b>                               | 8.92   |     | su       | 1  | 12/10/14 09:00 | TB  | SW846 9045D         |

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

---

RL = Reporting Limit

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK         | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-1A                     | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.4    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

### SAR Metals Analysis

| Analyte   | Result | RL  | Units | DF | Prep     | Analyzed By | Method                   | Prep Method                |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|----------------------------|
| Calcium   | 56.3   | 2.0 | mg/l  | 1  | 12/11/14 | 12/12/14 JB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Magnesium | 8.12   | 1.0 | mg/l  | 1  | 12/11/14 | 12/12/14 JB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Sodium    | 85.5   | 2.0 | mg/l  | 1  | 12/11/14 | 12/12/14 JB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |

(1) Instrument QC Batch: MA5582

(2) Prep QC Batch: MP14749

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RL = Reporting Limit

4.2  
4

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 1 DIESEL FUEL TANK         | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-1A                     | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.4    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

### General Chemistry

| Analyte                              | Result | RL | Units | DF | Analyzed       | By | Method           |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio <sup>a</sup> | 2.82   |    | ratio | 1  | 12/12/14 11:55 | JB | USDA HANDBOOK 60 |

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

---

RL = Reporting Limit

4.2  
 4

## Report of Analysis

|   |  |
|---|--|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS<br><b>Lab Sample ID:</b> D65436-2<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846 8260B SW846 5030A<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.3 |
|---|--|

| Run #               | File ID    | DF | Analyzed | By  | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------|-----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | F0067380.D | 1  | 12/10/14 | AFL | 12/10/14 14:47 | n/a        | F:VF2307         |
| Run #2              |            |    |          |     |                |            |                  |

| Run #  | Initial Weight |
|--------|----------------|
| Run #1 | 3.90 g         |
| Run #2 |                |

**Purgeable Aromatics**

| CAS No.   | Compound       | Result | RL  | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2   | Benzene        | ND     | 6.9 | 1.4 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 6.9 | 1.4 | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 6.9 | 1.4 | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 21  | 3.7 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    |        | 75-124% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%    |        | 72-135% |

(a) Sample was prepared from a bulk container. Analysis performed at Accutest Laboratories, Orlando FL.

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

4.3  
4

# Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS            |                                |
| <b>Lab Sample ID:</b> D65436-2                      | <b>Date Sampled:</b> 12/05/14  |
| <b>Matrix:</b> SO - Soil                            | <b>Date Received:</b> 12/09/14 |
| <b>Method:</b> SW846 8270D BY SIM SW846 3550C       | <b>Percent Solids:</b> 92.3    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

| Run #               | File ID   | DF | Analyzed | By  | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | W084292.D | 1  | 12/12/14 | AFL | 12/11/14  | F:OP54208  | F:SW3902         |
| Run #2              |           |    |          |     |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 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     | 36  | 14  | ug/kg |   |
| 120-12-7 | Anthracene             | ND     | 36  | 8.9 | ug/kg |   |
| 56-55-3  | Benzo(a)anthracene     | ND     | 7.1 | 1.8 | ug/kg |   |
| 50-32-8  | Benzo(a)pyrene         | ND     | 7.1 | 1.8 | ug/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 7.1 | 1.8 | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 7.1 | 1.8 | ug/kg |   |
| 218-01-9 | Chrysene               | 3.5    | 7.1 | 1.8 | ug/kg | J |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 7.1 | 1.8 | ug/kg |   |
| 206-44-0 | Fluoranthene           | ND     | 36  | 8.9 | ug/kg |   |
| 86-73-7  | Fluorene               | ND     | 36  | 14  | ug/kg |   |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND     | 7.1 | 1.8 | ug/kg |   |
| 91-20-3  | Naphthalene            | ND     | 36  | 14  | ug/kg |   |
| 129-00-0 | Pyrene                 | ND     | 36  | 8.9 | ug/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 73%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 71%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 92%    |        | 45-119% |

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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

4.3  
**4**

## Report of Analysis

|   |  |
|---|--|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS<br><b>Lab Sample ID:</b> D65436-2<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846 8015B<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.3 |
|---|--|

| Run #  | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GB27962.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |
| 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     | 5.8     | mg/kg |   |
| CAS No.  | Surrogate Recoveries   | Run# 1 | Run# 2 | Limits  |       |   |
| 120-82-1 | 1,2,4-Trichlorobenzene | 97%    |        | 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

4.3  
4

## Report of Analysis

|  |  |
|--|--|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS<br><b>Lab Sample ID:</b> D65436-2<br><b>Matrix:</b> SO - Soil<br><b>Method:</b> SW846-8015B SW846 3546<br><b>Project:</b> Summit 1 Reclaim, San Migual County | <b>Date Sampled:</b> 12/05/14<br><b>Date Received:</b> 12/09/14<br><b>Percent Solids:</b> 92.3 |
|--|--|

| Run #  | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | FI20166.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |
| Run #2 |           |    |          |    |           |            |                  |

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

| CAS No. | Compound             | Result | RL     | MDL     | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
|         | TPH-DRO (C10-C28)    | 32.4   | 7.2    | 5.4     | mg/kg |   |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 84-15-1 | o-Terphenyl          | 77%    |        | 20-130% |       |   |

---

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

4.3  
4

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS            | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-2                      | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.3    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

### Metals Analysis

| Analyte  | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic  | 7.7     | 0.11  | mg/kg | 5  | 12/10/14 | 12/11/14 KV | SW846 6020A <sup>1</sup> | SW846 3050B <sup>6</sup> |
| Barium   | 111     | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Cadmium  | < 1.1   | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Chromium | 7.1     | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Copper   | 7.0     | 1.1   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Lead     | 10.2    | 5.4   | mg/kg | 1  | 12/10/14 | 12/12/14 JB | SW846 6010C <sup>4</sup> | SW846 3050B <sup>5</sup> |
| Mercury  | < 0.090 | 0.090 | mg/kg | 1  | 12/12/14 | 12/12/14 JB | SW846 7471B <sup>3</sup> | SW846 7471B <sup>7</sup> |
| Nickel   | 8.9     | 3.3   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Selenium | < 5.4   | 5.4   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Silver   | < 3.3   | 3.3   | mg/kg | 1  | 12/10/14 | 12/11/14 JB | SW846 6010C <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Zinc     | 20.9    | 3.3   | mg/kg | 1  | 12/10/14 | 12/12/14 JB | SW846 6010C <sup>4</sup> | SW846 3050B <sup>5</sup> |

- (1) Instrument QC Batch: MA5572
- (2) Instrument QC Batch: MA5576
- (3) Instrument QC Batch: MA5581
- (4) Instrument QC Batch: MA5582
- (5) Prep QC Batch: MP14734
- (6) Prep QC Batch: MP14735
- (7) Prep QC Batch: MP14751

RL = Reporting Limit

4.3  
4

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS            | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-2                      | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.3    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

**General Chemistry**

| Analyte                                 | Result | RL  | Units    | DF | Analyzed       | By  | Method              |
|---|--------|-----|----------|----|----------------|-----|---------------------|
| <b>%solids</b>                          |        |     |          |    |                |     |                     |
| <b>Solids, Percent</b>                  | 92.3   |     | %        | 1  | 12/10/14       | SWT | SM2540G-2011 M      |
| <b>prep: DEPT.OF AG, BOOK N9</b>        |        |     |          |    |                |     |                     |
| <b>Specific Conductivity</b>            | 1410   | 1.0 | umhos/cm | 1  | 12/11/14       | JD  | SM 2510B-2011 MOD   |
| <b>Chromium, Hexavalent</b>             | < 1.0  | 1.0 | mg/kg    | 1  | 12/12/14 09:30 | JF  | SW846 3060A/7196A   |
| <b>Chromium, Trivalent <sup>a</sup></b> | 6.4    | 2.1 | mg/kg    | 1  | 12/12/14 09:30 | JF  | SW846 3060A/7196A M |
| <b>Redox Potential Vs H2</b>            | 233    |     | mv       | 1  | 12/12/14       | AK  | ASTM D1498-76M      |
| <b>pH</b>                               | 8.83   |     | su       | 1  | 12/10/14 09:00 | TB  | SW846 9045D         |

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

---

RL = Reporting Limit

4.3  
4

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS            | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-2A                     | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.3    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

### SAR Metals Analysis

| Analyte   | Result | RL  | Units | DF | Prep     | Analyzed By | Method                   | Prep Method                |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|----------------------------|
| Calcium   | 143    | 2.0 | mg/l  | 1  | 12/11/14 | 12/12/14 JB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Magnesium | 30.9   | 1.0 | mg/l  | 1  | 12/11/14 | 12/12/14 JB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Sodium    | 104    | 2.0 | mg/l  | 1  | 12/11/14 | 12/12/14 JB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |

(1) Instrument QC Batch: MA5582

(2) Prep QC Batch: MP14749

---

RL = Reporting Limit

4.4  
4

## Report of Analysis

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> 2 CUTTINGS BINS            | <b>Date Sampled:</b> 12/05/14  |
| <b>Lab Sample ID:</b> D65436-2A                     | <b>Date Received:</b> 12/09/14 |
| <b>Matrix:</b> SO - Soil                            | <b>Percent Solids:</b> 92.3    |
| <b>Project:</b> Summit 1 Reclaim, San Migual County |                                |

### General Chemistry

| Analyte                              | Result | RL | Units | DF | Analyzed       | By | Method           |
|--------------------------------------|--------|----|-------|----|----------------|----|------------------|
| Sodium Adsorption Ratio <sup>a</sup> | 2.06   |    | ratio | 1  | 12/12/14 13:14 | JB | USDA HANDBOOK 60 |

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

---

RL = Reporting Limit

4.4  
 4

## Misc. Forms

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5

### Custody Documents and Other Forms

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**Includes the following where applicable:**

- Chain of Custody





## GC Volatiles

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### QC Data Summaries

---

**Includes the following where applicable:**

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

# Method Blank Summary

Job Number: D65436  
Account: POAGCORV CCI  
Project: Summit 1 Reclaim, San Migual County

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGB1507-MB | GB27949.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |

The QC reported here applies to the following samples:

Method: SW846 8015B

D65436-1, D65436-2

| CAS No. | Compound         | Result | RL  | MDL | Units | Q |
|---------|------------------|--------|-----|-----|-------|---|
|         | TPH-GRO (C6-C10) | ND     | 9.9 | 4.9 | mg/kg |   |

| CAS No.  | Surrogate Recoveries   | Limits      |
|----------|------------------------|-------------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 98% 60-140% |

# Blank Spike Summary

Job Number: D65436  
 Account: POAGCORV CCI  
 Project: Summit 1 Reclaim, San Miguel County

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGB1507-BS | GB27950.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |

The QC reported here applies to the following samples:

Method: SW846 8015B

D65436-1, D65436-2

| CAS No. | Compound         | Spike<br>mg/kg | BSP<br>mg/kg | BSP<br>% | Limits |
|---------|------------------|----------------|--------------|----------|--------|
|         | TPH-GRO (C6-C10) | 109            | 107          | 99       | 70-130 |

| CAS No.  | Surrogate Recoveries   | BSP  | Limits  |
|----------|------------------------|------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 101% | 60-140% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D65436  
 Account: POAGCORV CCI  
 Project: Summit 1 Reclaim, San Migual County

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| D65486-1MS  | GB27952.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |
| D65486-1MSD | GB27953.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |
| D65486-1    | GB27951.D | 1  | 12/11/14 | EP | n/a       | n/a        | GGB1507          |

The QC reported here applies to the following samples:

Method: SW846 8015B

D65436-1, D65436-2

| CAS No. | Compound         | D65486-1<br>mg/kg | Spike<br>Q mg/kg | MS<br>mg/kg | MS<br>% | Spike<br>mg/kg | MSD<br>mg/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|---------|------------------|-------------------|------------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
|         | TPH-GRO (C6-C10) | ND                | 144              | 140         | 97      | 144            | 140          | 97       | 0   | 70-130/30         |

| CAS No.  | Surrogate Recoveries   | MS   | MSD | D65486-1 | Limits  |
|----------|------------------------|------|-----|----------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 100% | 97% | 97%      | 60-140% |

\* = Outside of Control Limits.

## GC Semi-volatiles

---

### QC Data Summaries

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**Includes the following where applicable:**

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

# Method Blank Summary

Job Number: D65436  
Account: POAGCORV CCI  
Project: Summit 1 Reclaim, San Migual County

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP11056-MB | FI20154.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |

The QC reported here applies to the following samples:

Method: SW846-8015B

D65436-1, D65436-2

| CAS No. | Compound          | Result | RL  | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
|         | TPH-DRO (C10-C28) | ND     | 6.7 | 5.0 | mg/kg |   |

| CAS No. | Surrogate Recoveries | Limits      |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl          | 87% 20-130% |

7.1.1  
7

# Blank Spike Summary

**Job Number:** D65436  
**Account:** POAGCORV CCI  
**Project:** Summit 1 Reclaim, San Miguel County

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP11056-BS | FI20155.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |

The QC reported here applies to the following samples:

Method: SW846-8015B

D65436-1, D65436-2

| CAS No. | Compound          | Spike<br>mg/kg | BSP<br>mg/kg | BSP<br>% | Limits |
|---------|-------------------|----------------|--------------|----------|--------|
|         | TPH-DRO (C10-C28) | 167            | 120          | 72       | 42-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits  |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl          | 92% | 20-130% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D65436  
 Account: POAGCORV CCI  
 Project: Summit 1 Reclaim, San Migual County

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP11056-MS  | FI20156.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |
| OP11056-MSD | FI20157.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |
| D65477-2    | FI20158.D | 1  | 12/11/14 | JJ | 12/10/14  | OP11056    | GFI1077          |

The QC reported here applies to the following samples:

Method: SW846-8015B

D65436-1, D65436-2

| CAS No. | Compound          | D65477-2<br>mg/kg | Spike<br>mg/kg | MS<br>mg/kg | MS<br>% | Spike<br>mg/kg | MSD<br>mg/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|---------|-------------------|-------------------|----------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
|         | TPH-DRO (C10-C28) | ND                | 175            | 125         | 71      | 175            | 127          | 72       | 2   | 20-150/30         |

| CAS No. | Surrogate Recoveries | MS  | MSD | D65477-2 | Limits  |
|---------|----------------------|-----|-----|----------|---------|
| 84-15-1 | o-Terphenyl          | 93% | 94% | 87%      | 20-130% |

\* = Outside of Control Limits.

7.3.1  
7

## Metals Analysis

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### QC Data Summaries

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**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: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14734  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 12/10/14

| Metal      | RL   | IDL  | MDL  | MB<br>raw | final |
|------------|------|------|------|-----------|-------|
| Aluminum   | 10   | 1.1  | 1.8  |           |       |
| Antimony   | 3.0  | .21  | .5   |           |       |
| Arsenic    | 2.5  | .38  | .63  |           |       |
| Barium     | 1.0  | .02  | .36  | 0.040     | <1.0  |
| Beryllium  | 1.0  | .09  | .06  |           |       |
| Boron      | 5.0  | .08  | .16  |           |       |
| Cadmium    | 1.0  | .02  | .28  | 0.050     | <1.0  |
| Calcium    | 40   | .24  | 6.8  |           |       |
| Chromium   | 1.0  | .03  | .03  | 0.10      | <1.0  |
| Cobalt     | 0.50 | .05  | .039 |           |       |
| Copper     | 1.0  | .08  | .13  | 0.14      | <1.0  |
| Iron       | 7.0  | .15  | 1.8  |           |       |
| Lead       | 5.0  | .21  | .25  | 0.11      | <5.0  |
| Lithium    | 0.50 | .04  | .13  |           |       |
| Magnesium  | 20   | .68  | 1.8  |           |       |
| Manganese  | 0.50 | .05  | .038 |           |       |
| Molybdenum | 1.0  | .04  | .13  |           |       |
| Nickel     | 3.0  | .05  | .07  | -0.040    | <3.0  |
| Phosphorus | 10   | 1.5  | 1.2  |           |       |
| Potassium  | 200  | 9.9  | 12   |           |       |
| Selenium   | 5.0  | .71  | 1.1  | -0.12     | <5.0  |
| Silicon    | 5.0  | .47  | 1.1  |           |       |
| Silver     | 3.0  | .03  | .05  | 0.040     | <3.0  |
| Sodium     | 40   | .73  | 3.7  |           |       |
| Strontium  | 5.0  | .001 | .022 |           |       |
| Thallium   | 1.0  | .18  | .46  |           |       |
| Tin        | 5.0  | 1.2  | 2.3  |           |       |
| Titanium   | 1.0  | .01  | .46  |           |       |
| Uranium    | 5.0  | .29  | .31  |           |       |
| Vanadium   | 1.0  | .04  | .043 |           |       |
| Zinc       | 3.0  | .04  | .16  | 0.16      | <3.0  |

Associated samples MP14734: D65436-1, D65436-2

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits

8.1.1  
8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

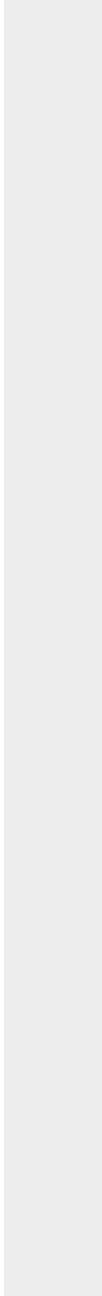
QC Batch ID: MP14734  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 12/10/14

| Metal | RL | IDL | MDL | MB<br>raw | final |
|-------|----|-----|-----|-----------|-------|
|-------|----|-----|-----|-----------|-------|

(anr) Analyte not requested



8.1.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14734  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 12/10/14

| Metal      | D65477-2<br>Original MS |      | SpikeLot<br>ICPALL2 | % Rec | QC<br>Limits |
|------------|-------------------------|------|---------------------|-------|--------------|
| Aluminum   | anr                     |      |                     |       |              |
| Antimony   | anr                     |      |                     |       |              |
| Arsenic    | anr                     |      |                     |       |              |
| Barium     | 23.2                    | 221  | 213                 | 92.7  | 75-125       |
| Beryllium  | anr                     |      |                     |       |              |
| Boron      |                         |      |                     |       |              |
| Cadmium    | 0.043                   | 53.5 | 53.3                | 100.2 | 75-125       |
| Calcium    |                         |      |                     |       |              |
| Chromium   | 1.7                     | 56.3 | 53.3                | 102.4 | 75-125       |
| Cobalt     |                         |      |                     |       |              |
| Copper     | 0.93                    | 52.6 | 53.3                | 96.9  | 75-125       |
| Iron       | anr                     |      |                     |       |              |
| Lead       | 2.5                     | 110  | 107                 | 100.8 | 75-125       |
| Lithium    |                         |      |                     |       |              |
| Magnesium  |                         |      |                     |       |              |
| Manganese  | anr                     |      |                     |       |              |
| Molybdenum | anr                     |      |                     |       |              |
| Nickel     | 1.1                     | 52.6 | 53.3                | 96.6  | 75-125       |
| Phosphorus |                         |      |                     |       |              |
| Potassium  |                         |      |                     |       |              |
| Selenium   | 0.0                     | 107  | 107                 | 100.3 | 75-125       |
| Silicon    |                         |      |                     |       |              |
| Silver     | 0.0                     | 19.9 | 21.3                | 93.3  | 75-125       |
| Sodium     | anr                     |      |                     |       |              |
| Strontium  | anr                     |      |                     |       |              |
| Thallium   | anr                     |      |                     |       |              |
| Tin        |                         |      |                     |       |              |
| Titanium   |                         |      |                     |       |              |
| Uranium    |                         |      |                     |       |              |
| Vanadium   | anr                     |      |                     |       |              |
| Zinc       | 4.7                     | 56.7 | 53.3                | 97.5  | 75-125       |

Associated samples MP14734: D65436-1, D65436-2

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

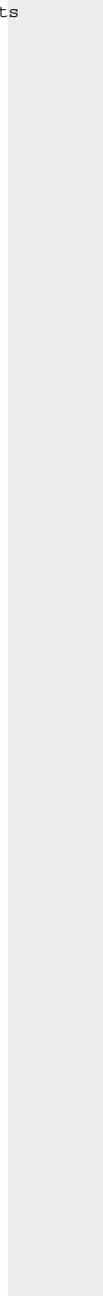
QC Batch ID: MP14734  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 12/10/14

| Metal | D65477-2<br>Original MS | SpikeLot<br>ICPAL2 | % Rec | QC<br>Limits |
|-------|-------------------------|--------------------|-------|--------------|
|-------|-------------------------|--------------------|-------|--------------|

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



8.1.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14734  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 12/10/14

| Metal      | D65477-2<br>Original | MSD  | SpikeLot<br>ICPAL2 | % Rec | MSD<br>RPD | QC<br>Limit |
|------------|----------------------|------|--------------------|-------|------------|-------------|
| Aluminum   | anr                  |      |                    |       |            |             |
| Antimony   | anr                  |      |                    |       |            |             |
| Arsenic    | anr                  |      |                    |       |            |             |
| Barium     | 23.2                 | 227  | 213                | 95.5  | 2.7        | 20          |
| Beryllium  | anr                  |      |                    |       |            |             |
| Boron      |                      |      |                    |       |            |             |
| Cadmium    | 0.043                | 53.7 | 53.3               | 100.6 | 0.4        | 20          |
| Calcium    |                      |      |                    |       |            |             |
| Chromium   | 1.7                  | 56.9 | 53.3               | 103.5 | 1.1        | 20          |
| Cobalt     |                      |      |                    |       |            |             |
| Copper     | 0.93                 | 52.9 | 53.3               | 97.4  | 0.6        | 20          |
| Iron       | anr                  |      |                    |       |            |             |
| Lead       | 2.5                  | 111  | 107                | 101.7 | 0.9        | 20          |
| Lithium    |                      |      |                    |       |            |             |
| Magnesium  |                      |      |                    |       |            |             |
| Manganese  | anr                  |      |                    |       |            |             |
| Molybdenum | anr                  |      |                    |       |            |             |
| Nickel     | 1.1                  | 53.2 | 53.3               | 97.7  | 1.1        | 20          |
| Phosphorus |                      |      |                    |       |            |             |
| Potassium  |                      |      |                    |       |            |             |
| Selenium   | 0.0                  | 109  | 107                | 102.2 | 1.9        | 20          |
| Silicon    |                      |      |                    |       |            |             |
| Silver     | 0.0                  | 20.2 | 21.3               | 94.7  | 1.5        | 20          |
| Sodium     | anr                  |      |                    |       |            |             |
| Strontium  | anr                  |      |                    |       |            |             |
| Thallium   | anr                  |      |                    |       |            |             |
| Tin        |                      |      |                    |       |            |             |
| Titanium   |                      |      |                    |       |            |             |
| Uranium    |                      |      |                    |       |            |             |
| Vanadium   | anr                  |      |                    |       |            |             |
| Zinc       | 4.7                  | 57.1 | 53.3               | 98.3  | 0.7        | 20          |

Associated samples MP14734: D65436-1, D65436-2

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

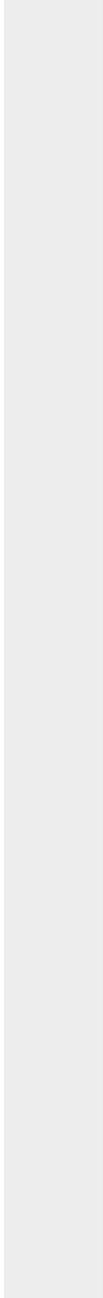
QC Batch ID: MP14734  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 12/10/14

| Metal | D65477-2<br>Original MSD | SpikeLot<br>ICPALL2 % Rec | MSD<br>RPD | QC<br>Limit |
|-------|--------------------------|---------------------------|------------|-------------|
|-------|--------------------------|---------------------------|------------|-------------|

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



8.1.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14734  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 12/10/14

| Metal      | BSP Result | Spikelot ICPALL2 | % Rec | QC Limits |
|------------|------------|------------------|-------|-----------|
| Aluminum   | anr        |                  |       |           |
| Antimony   | anr        |                  |       |           |
| Arsenic    | anr        |                  |       |           |
| Barium     | 201        | 200              | 100.5 | 80-120    |
| Beryllium  | anr        |                  |       |           |
| Boron      |            |                  |       |           |
| Cadmium    | 53.1       | 50               | 106.2 | 80-120    |
| Calcium    |            |                  |       |           |
| Chromium   | 54.2       | 50               | 108.4 | 80-120    |
| Cobalt     |            |                  |       |           |
| Copper     | 50.8       | 50               | 101.6 | 80-120    |
| Iron       | anr        |                  |       |           |
| Lead       | 108        | 100              | 108.0 | 80-120    |
| Lithium    |            |                  |       |           |
| Magnesium  |            |                  |       |           |
| Manganese  | anr        |                  |       |           |
| Molybdenum | anr        |                  |       |           |
| Nickel     | 51.3       | 50               | 102.6 | 80-120    |
| Phosphorus |            |                  |       |           |
| Potassium  |            |                  |       |           |
| Selenium   | 107        | 100              | 107.0 | 80-120    |
| Silicon    |            |                  |       |           |
| Silver     | 20.1       | 20               | 100.5 | 80-120    |
| Sodium     | anr        |                  |       |           |
| Strontium  | anr        |                  |       |           |
| Thallium   | anr        |                  |       |           |
| Tin        |            |                  |       |           |
| Titanium   |            |                  |       |           |
| Uranium    |            |                  |       |           |
| Vanadium   | anr        |                  |       |           |
| Zinc       | 51.2       | 50               | 102.4 | 80-120    |

Associated samples MP14734: D65436-1, D65436-2

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.1.3  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

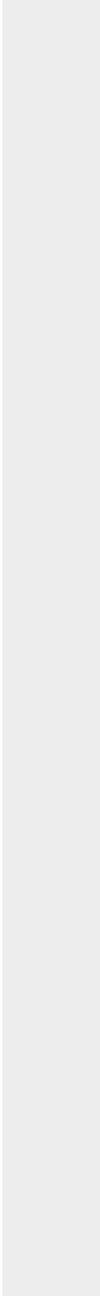
QC Batch ID: MP14734  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 12/10/14

| Metal | BSP<br>Result | Spikelot<br>ICPALL2 | % Rec | QC<br>Limits |
|-------|---------------|---------------------|-------|--------------|
|-------|---------------|---------------------|-------|--------------|

(anr) Analyte not requested



8.1.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14734  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 12/10/14

| Metal      | D65477-2<br>Original | SDL 1:5 | %DIF     | QC<br>Limits |
|------------|----------------------|---------|----------|--------------|
| Aluminum   | anr                  |         |          |              |
| Antimony   | anr                  |         |          |              |
| Arsenic    | anr                  |         |          |              |
| Barium     | 218                  | 230     | 5.7      | 0-10         |
| Beryllium  | anr                  |         |          |              |
| Boron      |                      |         |          |              |
| Cadmium    | 0.400                | 0.00    | 100.0(a) | 0-10         |
| Calcium    |                      |         |          |              |
| Chromium   | 15.7                 | 15.5    | 1.3      | 0-10         |
| Cobalt     |                      |         |          |              |
| Copper     | 8.70                 | 11.5    | 32.2 (a) | 0-10         |
| Iron       | anr                  |         |          |              |
| Lead       | 23.0                 | 27.5    | 19.6 (a) | 0-10         |
| Lithium    |                      |         |          |              |
| Magnesium  |                      |         |          |              |
| Manganese  | anr                  |         |          |              |
| Molybdenum | anr                  |         |          |              |
| Nickel     | 10.6                 | 13.0    | 22.6 (a) | 0-10         |
| Phosphorus |                      |         |          |              |
| Potassium  |                      |         |          |              |
| Selenium   | 0.00                 | 0.00    | NC       | 0-10         |
| Silicon    |                      |         |          |              |
| Silver     | 0.00                 | 0.00    | NC       | 0-10         |
| Sodium     | anr                  |         |          |              |
| Strontium  | anr                  |         |          |              |
| Thallium   | anr                  |         |          |              |
| Tin        |                      |         |          |              |
| Titanium   |                      |         |          |              |
| Uranium    |                      |         |          |              |
| Vanadium   | anr                  |         |          |              |
| Zinc       | 44.0                 | 48.5    | 10.2*(b) | 0-10         |

Associated samples MP14734: D65436-1, D65436-2

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.1.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14734  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: ug/l

Prep Date: 12/10/14

|       | D65477-2         |      | QC     |
|-------|------------------|------|--------|
| Metal | Original SDL 1:5 | %DIF | Limits |

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

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14735  
Matrix Type: SOLID

Methods: SW846 6020A  
Units: mg/kg

Prep Date: 12/10/14

| Metal   | RL   | IDL   | MDL  | MB     |       |
|---------|------|-------|------|--------|-------|
|         |      |       |      | raw    | final |
| Arsenic | 0.10 | .0085 | .024 | 0.0086 | <0.10 |

Associated samples MP14735: D65436-1, D65436-2

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: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14735  
 Matrix Type: SOLID

Methods: SW846 6020A  
 Units: mg/kg

Prep Date: 12/10/14

| Metal   | D65477-2<br>Original MS | Spikelot<br>ICPALL2 | % Rec | QC<br>Limits |
|---------|-------------------------|---------------------|-------|--------------|
| Arsenic | 0.46                    | 112                 | 107   | 104.6 75-125 |

Associated samples MP14735: D65436-1, D65436-2

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

8.2.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14735  
 Matrix Type: SOLID

Methods: SW846 6020A  
 Units: mg/kg

Prep Date: 12/10/14

| Metal   | D65477-2<br>Original MSD | Spikelot<br>ICPALL2 | % Rec | MSD<br>RPD | QC<br>Limit |    |
|---------|--------------------------|---------------------|-------|------------|-------------|----|
| Arsenic | 0.46                     | 109                 | 107   | 101.8      | 2.7         | 20 |

Associated samples MP14735: D65436-1, D65436-2

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

8.2.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14735  
Matrix Type: SOLID

Methods: SW846 6020A  
Units: mg/kg

Prep Date: 12/10/14

| Metal   | BSP<br>Result | Spikelot<br>ICPALL2 | % Rec | QC<br>Limits |
|---------|---------------|---------------------|-------|--------------|
| Arsenic | 101           | 100                 | 101.0 | 80-120       |

Associated samples MP14735: D65436-1, D65436-2

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

8.2.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14735  
Matrix Type: SOLID

Methods: SW846 6020A  
Units: ug/l

Prep Date: 12/10/14

| Metal | D65477-2<br>Original | SDL 5:25 | %DIF | QC<br>Limits |
|-------|----------------------|----------|------|--------------|
|-------|----------------------|----------|------|--------------|

Arsenic 4.28 3.36 21.6\*(a) 0-10

Associated samples MP14735: D65436-1, D65436-2

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested  
(a) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14749  
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal      | RL   | IDL | MDL  | MB<br>raw | final |
|------------|------|-----|------|-----------|-------|
| Aluminum   | 500  | 55  | 210  |           |       |
| Antimony   | 150  | 11  | 95   |           |       |
| Arsenic    | 130  | 19  | 28   |           |       |
| Barium     | 50   | 1   | 7    |           |       |
| Beryllium  | 50   | 4.5 | 6    |           |       |
| Boron      | 250  | 4   | 33   |           |       |
| Cadmium    | 50   | 1   | 1.8  |           |       |
| Calcium    | 2000 | 12  | 210  | -82       | <2000 |
| Chromium   | 50   | 1.5 | 2    |           |       |
| Cobalt     | 25   | 2.5 | 2.9  |           |       |
| Copper     | 50   | 4   | 9.5  |           |       |
| Iron       | 350  | 7.5 | 48   |           |       |
| Lead       | 250  | 11  | 110  |           |       |
| Lithium    | 25   | 2   | 14   |           |       |
| Magnesium  | 1000 | 34  | 95   | 27.5      | <1000 |
| Manganese  | 25   | 2.5 | 2.3  |           |       |
| Molybdenum | 50   | 2   | 4.2  |           |       |
| Nickel     | 150  | 2.5 | 4.4  |           |       |
| Phosphorus | 500  | 75  | 100  |           |       |
| Potassium  | 5000 | 500 | 1400 |           |       |
| Selenium   | 250  | 36  | 55   |           |       |
| Silicon    | 250  | 24  | 26   |           |       |
| Silver     | 150  | 1.5 | 3    |           |       |
| Sodium     | 2000 | 37  | 850  | 60.5      | <2000 |
| Strontium  | 25   | .05 | .6   |           |       |
| Thallium   | 50   | 9   | 20   |           |       |
| Tin        | 250  | 60  | 80   |           |       |
| Titanium   | 50   | .5  | 11   |           |       |
| Uranium    | 250  | 15  | 28   |           |       |
| Vanadium   | 50   | 2   | 2    |           |       |
| Zinc       | 150  | 2   | 16   |           |       |

Associated samples MP14749: D65436-1A, D65436-2A

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

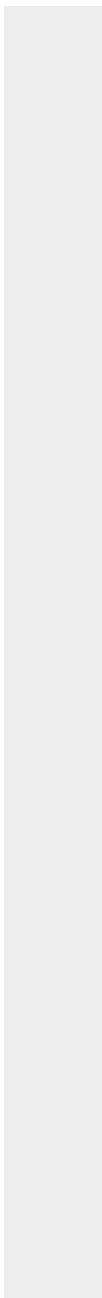
QC Batch ID: MP14749  
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal | RL | IDL | MDL | MB<br>raw | final |
|-------|----|-----|-----|-----------|-------|
|-------|----|-----|-----|-----------|-------|

(anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14749  
 Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal      | D65436-1A<br>Original MS |        | SpikeLot<br>ICPALL2 | % Rec | QC<br>Limits |
|------------|--------------------------|--------|---------------------|-------|--------------|
| Aluminum   |                          |        |                     |       |              |
| Antimony   |                          |        |                     |       |              |
| Arsenic    |                          |        |                     |       |              |
| Barium     |                          |        |                     |       |              |
| Beryllium  |                          |        |                     |       |              |
| Boron      |                          |        |                     |       |              |
| Cadmium    |                          |        |                     |       |              |
| Calcium    | 56300                    | 191000 | 125000              | 107.8 | 75-125       |
| Chromium   |                          |        |                     |       |              |
| Cobalt     |                          |        |                     |       |              |
| Copper     |                          |        |                     |       |              |
| Iron       |                          |        |                     |       |              |
| Lead       |                          |        |                     |       |              |
| Lithium    |                          |        |                     |       |              |
| Magnesium  | 8120                     | 141000 | 125000              | 106.3 | 75-125       |
| Manganese  |                          |        |                     |       |              |
| Molybdenum |                          |        |                     |       |              |
| Nickel     |                          |        |                     |       |              |
| Phosphorus |                          |        |                     |       |              |
| Potassium  |                          |        |                     |       |              |
| Selenium   |                          |        |                     |       |              |
| Silicon    |                          |        |                     |       |              |
| Silver     |                          |        |                     |       |              |
| Sodium     | 85500                    | 217000 | 125000              | 105.2 | 75-125       |
| Strontium  |                          |        |                     |       |              |
| Thallium   |                          |        |                     |       |              |
| Tin        |                          |        |                     |       |              |
| Titanium   |                          |        |                     |       |              |
| Uranium    |                          |        |                     |       |              |
| Vanadium   |                          |        |                     |       |              |
| Zinc       |                          |        |                     |       |              |

Associated samples MP14749: D65436-1A, D65436-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

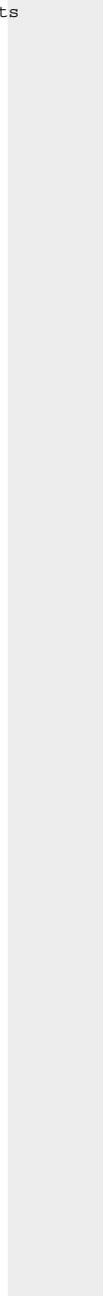
QC Batch ID: MP14749  
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal | D65436-1A<br>Original MS | SpikeLot<br>ICPAL2 | % Rec | QC<br>Limits |
|-------|--------------------------|--------------------|-------|--------------|
|-------|--------------------------|--------------------|-------|--------------|

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



8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14749  
 Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal      | D65436-1A<br>Original MSD |        | SpikeLot<br>ICPALL2 % Rec |       | MSD<br>RPD | QC<br>Limit |
|------------|---------------------------|--------|---------------------------|-------|------------|-------------|
| Aluminum   |                           |        |                           |       |            |             |
| Antimony   |                           |        |                           |       |            |             |
| Arsenic    |                           |        |                           |       |            |             |
| Barium     |                           |        |                           |       |            |             |
| Beryllium  |                           |        |                           |       |            |             |
| Boron      |                           |        |                           |       |            |             |
| Cadmium    |                           |        |                           |       |            |             |
| Calcium    | 56300                     | 191000 | 125000                    | 107.8 | 0.0        | 20          |
| Chromium   |                           |        |                           |       |            |             |
| Cobalt     |                           |        |                           |       |            |             |
| Copper     |                           |        |                           |       |            |             |
| Iron       |                           |        |                           |       |            |             |
| Lead       |                           |        |                           |       |            |             |
| Lithium    |                           |        |                           |       |            |             |
| Magnesium  | 8120                      | 143000 | 125000                    | 107.9 | 1.4        | 20          |
| Manganese  |                           |        |                           |       |            |             |
| Molybdenum |                           |        |                           |       |            |             |
| Nickel     |                           |        |                           |       |            |             |
| Phosphorus |                           |        |                           |       |            |             |
| Potassium  |                           |        |                           |       |            |             |
| Selenium   |                           |        |                           |       |            |             |
| Silicon    |                           |        |                           |       |            |             |
| Silver     |                           |        |                           |       |            |             |
| Sodium     | 85500                     | 223000 | 125000                    | 110.0 | 2.7        | 20          |
| Strontium  |                           |        |                           |       |            |             |
| Thallium   |                           |        |                           |       |            |             |
| Tin        |                           |        |                           |       |            |             |
| Titanium   |                           |        |                           |       |            |             |
| Uranium    |                           |        |                           |       |            |             |
| Vanadium   |                           |        |                           |       |            |             |
| Zinc       |                           |        |                           |       |            |             |

Associated samples MP14749: D65436-1A, D65436-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

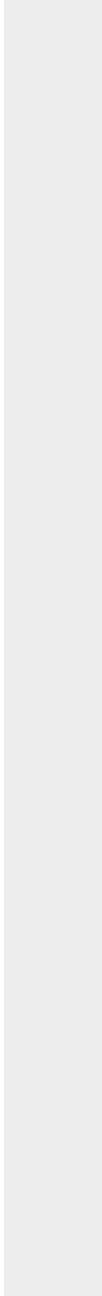
QC Batch ID: MP14749  
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal | D65436-1A<br>Original MSD | Spikelet<br>ICPALL2 % Rec | MSD<br>RPD | QC<br>Limit |
|-------|---------------------------|---------------------------|------------|-------------|
|-------|---------------------------|---------------------------|------------|-------------|

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



8.3.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14749  
 Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal      | BSP Result | Spikelot ICPALL2 | % Rec | QC Limits |
|------------|------------|------------------|-------|-----------|
| Aluminum   |            |                  |       |           |
| Antimony   |            |                  |       |           |
| Arsenic    |            |                  |       |           |
| Barium     |            |                  |       |           |
| Beryllium  |            |                  |       |           |
| Boron      |            |                  |       |           |
| Cadmium    |            |                  |       |           |
| Calcium    | 135000     | 125000           | 108.0 | 80-120    |
| Chromium   |            |                  |       |           |
| Cobalt     |            |                  |       |           |
| Copper     |            |                  |       |           |
| Iron       |            |                  |       |           |
| Lead       |            |                  |       |           |
| Lithium    |            |                  |       |           |
| Magnesium  | 134000     | 125000           | 107.2 | 80-120    |
| Manganese  |            |                  |       |           |
| Molybdenum |            |                  |       |           |
| Nickel     |            |                  |       |           |
| Phosphorus |            |                  |       |           |
| Potassium  |            |                  |       |           |
| Selenium   |            |                  |       |           |
| Silicon    |            |                  |       |           |
| Silver     |            |                  |       |           |
| Sodium     | 134000     | 125000           | 107.2 | 80-120    |
| Strontium  |            |                  |       |           |
| Thallium   |            |                  |       |           |
| Tin        |            |                  |       |           |
| Titanium   |            |                  |       |           |
| Uranium    |            |                  |       |           |
| Vanadium   |            |                  |       |           |
| Zinc       |            |                  |       |           |

Associated samples MP14749: D65436-1A, D65436-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.3  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

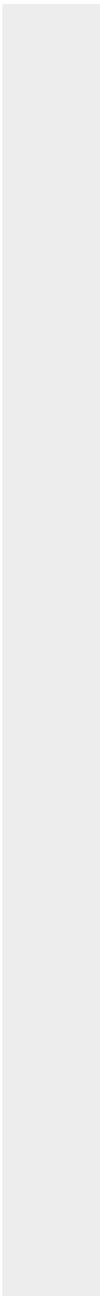
QC Batch ID: MP14749  
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal | BSP<br>Result | Spikelot<br>ICPALL2 | % Rec | QC<br>Limits |
|-------|---------------|---------------------|-------|--------------|
|-------|---------------|---------------------|-------|--------------|

(anr) Analyte not requested



8.3.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14749  
 Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

| Metal      | D65436-1A<br>Original SDL 1:5 |       | %DIF | QC<br>Limits |
|------------|-------------------------------|-------|------|--------------|
| Aluminum   |                               |       |      |              |
| Antimony   |                               |       |      |              |
| Arsenic    |                               |       |      |              |
| Barium     |                               |       |      |              |
| Beryllium  |                               |       |      |              |
| Boron      |                               |       |      |              |
| Cadmium    |                               |       |      |              |
| Calcium    | 11800                         | 11100 | 1.8  | 0-10         |
| Chromium   |                               |       |      |              |
| Cobalt     |                               |       |      |              |
| Copper     |                               |       |      |              |
| Iron       |                               |       |      |              |
| Lead       |                               |       |      |              |
| Lithium    |                               |       |      |              |
| Magnesium  | 1620                          | 1640  | 1.1  | 0-10         |
| Manganese  |                               |       |      |              |
| Molybdenum |                               |       |      |              |
| Nickel     |                               |       |      |              |
| Phosphorus |                               |       |      |              |
| Potassium  |                               |       |      |              |
| Selenium   |                               |       |      |              |
| Silicon    |                               |       |      |              |
| Silver     |                               |       |      |              |
| Sodium     | 17100                         | 17700 | 3.4  | 0-10         |
| Strontium  |                               |       |      |              |
| Thallium   |                               |       |      |              |
| Tin        |                               |       |      |              |
| Titanium   |                               |       |      |              |
| Uranium    |                               |       |      |              |
| Vanadium   |                               |       |      |              |
| Zinc       |                               |       |      |              |

Associated samples MP14749: D65436-1A, D65436-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14749  
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

|       |                       |        |
|-------|-----------------------|--------|
| Metal | D65436-1A             | QC     |
|       | Original SDL 1:5 %DIF | Limits |

(anr) Analyte not requested



8.3.4

8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14751  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 12/12/14

| Metal   | RL    | IDL    | MDL   | MB<br>raw | final  |
|---------|-------|--------|-------|-----------|--------|
| Mercury | 0.083 | .00088 | .0067 | 0.0022    | <0.083 |

Associated samples MP14751: D65436-1, D65436-2

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

8.4.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14751  
 Matrix Type: SOLID

Methods: SW846 7471B  
 Units: mg/kg

Prep Date: 12/12/14

| Metal   | D65477-2<br>Original MS | Spikelot<br>HGWSR1 | % Rec | QC<br>Limits |
|---------|-------------------------|--------------------|-------|--------------|
| Mercury | 0.0                     | 0.34               | 0.341 | 99.8 75-125  |

Associated samples MP14751: D65436-1, D65436-2

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

8.4.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D65436  
 Account: POAGCORV - CCI  
 Project: Summit 1 Reclaim, San Miguel County

QC Batch ID: MP14751  
 Matrix Type: SOLID

Methods: SW846 7471B  
 Units: mg/kg

Prep Date: 12/12/14

| Metal   | D65477-2<br>Original MSD | Spikelot<br>HGWSR1 | % Rec | MSD<br>RPD | QC<br>Limit |
|---------|--------------------------|--------------------|-------|------------|-------------|
| Mercury | 0.0                      | 0.34               | 0.341 | 99.8       | 0.0 20      |

Associated samples MP14751: D65436-1, D65436-2

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

8.4.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Migual County

QC Batch ID: MP14751  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 12/12/14

| Metal   | BSP<br>Result | Spikelot<br>HGWSR1 | % Rec | QC<br>Limits |
|---------|---------------|--------------------|-------|--------------|
| Mercury | 0.33          | 0.333              | 99.0  | 80-120       |

Associated samples MP14751: D65436-1, D65436-2

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

8.4.3  
8

## General Chemistry

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### QC Data Summaries

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**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: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

| Analyte               | Batch ID        | RL  | MB Result | Units    | Spike Amount | BSP Result | BSP %Recov | QC Limits   |
|-----------------------|-----------------|-----|-----------|----------|--------------|------------|------------|-------------|
| Chromium, Hexavalent  | GP14228/GN27848 | 1.0 | 0.42      | mg/kg    | 205          | 186        | 90.7       | 80-120%     |
| Specific Conductivity | GP14211/GN27819 |     |           | umhos/cm | 9990         | 10000      | 100.1      | 90-110%     |
| pH                    | GN27792         |     |           | su       | 8.00         | 7.98       | 99.8       | 99.1-100.9% |

Associated Samples:

Batch GN27792: D65436-1, D65436-2

Batch GP14211: D65436-1, D65436-2

Batch GP14228: D65436-1, D65436-2

(\* ) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

| Analyte               | Batch ID        | QC Sample | Units | Original Result | DUP Result | RPD      | QC Limits |
|-----------------------|-----------------|-----------|-------|-----------------|------------|----------|-----------|
| Chromium, Hexavalent  | GP14228/GN27848 | D65477-2  | mg/kg | 0.46            | 1.0        | 73.4 (a) | 0-20%     |
| Redox Potential Vs H2 | GN27847         | D65431-1  | mv    | 208             | 212        | 1.9      | 0-20%     |

Associated Samples:

Batch GN27847: D65436-1, D65436-2

Batch GP14228: D65436-1, D65436-2

(\*) Outside of QC limits

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

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

| Analyte              | Batch ID        | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------------------|-----------------|-----------|-------|-----------------|--------------|-----------|------|-----------|
| Chromium, Hexavalent | GP14228/GN27848 | D65477-2  | mg/kg | 0.46            | 40           | 35.8      | 90.0 | 75-125%   |

Associated Samples:

Batch GP14228: D65436-1, D65436-2

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D65436  
Account: POAGCORV - CCI  
Project: Summit 1 Reclaim, San Miguel County

| Analyte              | Batch ID        | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|----------------------|-----------------|-----------|-------|-----------------|--------------|------------|-----|----------|
| Chromium, Hexavalent | GP14228/GN27848 | D65477-2  | mg/kg | 0.46            | 40           | 35.9       | 0.0 | 20%      |

Associated Samples:

Batch GP14228: D65436-1, D65436-2

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

## Misc. Forms

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### Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

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**Includes the following where applicable:**

- Chain of Custody



**ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION**

ACCUTEST'S JOB NUMBER: D65436 CLIENT: AMS PROJECT: D65436  
 DATE/TIME RECEIVED: 12-10-14 1030 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1  
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: \_\_\_\_\_  
 AIRBILL NUMBERS: 5810 2761 9259

**COOLER INFORMATION**

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

**TRIP BLANK INFORMATION**

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

**MISC. INFORMATION**

NUMBER OF ENCORES ? 25-GRAM \_\_\_\_\_ 5-GRAM \_\_\_\_\_  
 NUMBER OF 5035 FIELD KITS ? \_\_\_\_\_  
 NUMBER OF LAB FILTERED METALS ? \_\_\_\_\_

**TEMPERATURE INFORMATION**

- IR THERM ID 1 CORR. FACTOR 10.4
- OBSERVED TEMPS: 3.0
- CORRECTED TEMPS: 3.4

**SAMPLE INFORMATION**

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# \_\_\_\_\_

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TECHNICIAN SIGNATURE/DATE RW [Signature] 12-10-14 REVIEWER SIGNATURE/DATE [Signature] 12-10-14

NF 10/14

receipt confirmation 102914.xls

10.1 10

**D65436: Chain of Custody**

**Page 2 of 3**



## GC/MS Volatiles

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### QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

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#### Includes the following where applicable:

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

# Method Blank Summary

Job Number: D65436  
Account: ALMS Accutest Mountain States  
Project: POAGCORV: Summit 1 Reclaim, San Migual County

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF2307-MB | F0067378.D | 1  | 12/10/14 | AD | n/a       | n/a        | VF2307           |

The QC reported here applies to the following samples:

Method: SW846 8260B

D65436-1, D65436-2

| CAS No.   | Compound       | Result | RL  | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2   | Benzene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 15  | 2.7 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   | 75-124% |
| 2037-26-5  | Toluene-D8            | 108%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 109%   | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100%   | 72-135% |

11.1.1  
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# Blank Spike Summary

Job Number: D65436  
 Account: ALMS Accutest Mountain States  
 Project: POAGCORV: Summit 1 Reclaim, San Migual County

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF2307-BS | F0067377.D | 1  | 12/10/14 | AD | n/a       | n/a        | VF2307           |

The QC reported here applies to the following samples:

Method: SW846 8260B

D65436-1, D65436-2

| CAS No.   | Compound       | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|-----------|----------------|----------------|--------------|----------|--------|
| 71-43-2   | Benzene        | 50             | 52.0         | 104      | 76-126 |
| 100-41-4  | Ethylbenzene   | 50             | 56.1         | 112      | 77-123 |
| 108-88-3  | Toluene        | 50             | 51.1         | 102      | 76-124 |
| 1330-20-7 | Xylene (total) | 150            | 173          | 115      | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%  | 75-124% |
| 2037-26-5  | Toluene-D8            | 102% | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 107% | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%  | 72-135% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D65436  
 Account: ALMS Accutest Mountain States  
 Project: POAGCORV: Summit 1 Reclaim, San Migual County

| Sample                | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------------------|------------|----|----------|----|-----------|------------|------------------|
| D65437-2MS            | F0067383.D | 1  | 12/10/14 | AD | n/a       | n/a        | VF2307           |
| D65437-2MSD           | F0067384.D | 1  | 12/10/14 | AD | n/a       | n/a        | VF2307           |
| D65437-2 <sup>a</sup> | F0067382.D | 1  | 12/10/14 | AD | n/a       | n/a        | VF2307           |

The QC reported here applies to the following samples:

Method: SW846 8260B

D65436-1, D65436-2

| CAS No.   | Compound       | D65437-2<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------|-------------------|---------------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 71-43-2   | Benzene        | ND                | 67.2                | 63.2        | 94      | 67.8           | 63.7         | 94       | 1   | 76-126/26         |
| 100-41-4  | Ethylbenzene   | ND                | 67.2                | 64.2        | 96      | 67.8           | 67.4         | 99       | 5   | 77-123/31         |
| 108-88-3  | Toluene        | ND                | 67.2                | 60.6        | 90      | 67.8           | 65.5         | 97       | 8   | 76-124/30         |
| 1330-20-7 | Xylene (total) | ND                | 202                 | 198         | 98      | 204            | 203          | 100      | 2   | 80-129/30         |

| CAS No.    | Surrogate Recoveries  | MS  | MSD  | D65437-2 | Limits  |
|------------|-----------------------|-----|------|----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99% | 101% | 104%     | 75-124% |
| 2037-26-5  | Toluene-D8            | 98% | 103% | 99%      | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97% | 105% | 109%     | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 97%  | 98%      | 72-135% |

(a) Sample was prepared from a bulk container.

\* = Outside of Control Limits.

## GC/MS Semi-volatiles

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### QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

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#### Includes the following where applicable:

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

# Method Blank Summary

Job Number: D65436  
 Account: ALMS Accutest Mountain States  
 Project: POAGCORV: Summit 1 Reclaim, San Migual County

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP54208-MB | W084288.D | 1  | 12/12/14 | MG | 12/11/14  | OP54208    | SW3902           |

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

D65436-1, D65436-2

| CAS No.  | Compound               | Result | RL  | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 83-32-9  | Acenaphthene           | ND     | 33  | 13  | ug/kg |   |
| 120-12-7 | Anthracene             | ND     | 33  | 8.3 | ug/kg |   |
| 56-55-3  | Benzo(a)anthracene     | ND     | 6.7 | 1.7 | ug/kg |   |
| 50-32-8  | Benzo(a)pyrene         | ND     | 6.7 | 1.7 | ug/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 6.7 | 1.7 | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 6.7 | 1.7 | ug/kg |   |
| 218-01-9 | Chrysene               | ND     | 6.7 | 1.7 | ug/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 6.7 | 1.7 | ug/kg |   |
| 206-44-0 | Fluoranthene           | ND     | 33  | 8.3 | ug/kg |   |
| 86-73-7  | Fluorene               | ND     | 33  | 13  | ug/kg |   |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND     | 6.7 | 1.7 | ug/kg |   |
| 91-20-3  | Naphthalene            | ND     | 33  | 13  | ug/kg |   |
| 129-00-0 | Pyrene                 | ND     | 33  | 8.3 | ug/kg |   |

| CAS No.   | Surrogate Recoveries | Limits      |
|-----------|----------------------|-------------|
| 4165-60-0 | Nitrobenzene-d5      | 89% 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 78% 43-107% |
| 1718-51-0 | Terphenyl-d14        | 99% 45-119% |

12.1.1  
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# Blank Spike Summary

Job Number: D65436  
 Account: ALMS Accutest Mountain States  
 Project: POAGCORV: Summit 1 Reclaim, San Migual County

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP54208-BS | W084287.D | 1  | 12/12/14 | MG | 12/11/14  | OP54208    | SW3902           |

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

D65436-1, D65436-2

| CAS No.  | Compound               | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|----------|------------------------|-------------|-----------|-------|--------|
| 83-32-9  | Acenaphthene           | 333         | 312       | 94    | 53-100 |
| 120-12-7 | Anthracene             | 167         | 157       | 94    | 60-102 |
| 56-55-3  | Benzo(a)anthracene     | 167         | 171       | 103   | 60-106 |
| 50-32-8  | Benzo(a)pyrene         | 167         | 167       | 100   | 58-105 |
| 205-99-2 | Benzo(b)fluoranthene   | 167         | 183       | 110   | 59-112 |
| 207-08-9 | Benzo(k)fluoranthene   | 167         | 160       | 96    | 58-109 |
| 218-01-9 | Chrysene               | 167         | 166       | 100   | 62-104 |
| 53-70-3  | Dibenzo(a,h)anthracene | 167         | 159       | 95    | 55-110 |
| 206-44-0 | Fluoranthene           | 333         | 347       | 104   | 59-109 |
| 86-73-7  | Fluorene               | 333         | 317       | 95    | 56-104 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 167         | 159       | 95    | 54-110 |
| 91-20-3  | Naphthalene            | 333         | 303       | 91    | 49-101 |
| 129-00-0 | Pyrene                 | 333         | 324       | 97    | 58-106 |

| CAS No.   | Surrogate Recoveries | BSP  | Limits  |
|-----------|----------------------|------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 98%  | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 94%  | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 102% | 45-119% |

\* = Outside of Control Limits.

12.2.1  
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# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D65436  
 Account: ALMS Accutest Mountain States  
 Project: POAGCORV: Summit 1 Reclaim, San Migual County

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP54208-MS  | W084298.D | 1  | 12/12/14 | MG | 12/11/14  | OP54208    | SW3902           |
| OP54208-MSD | W084299.D | 1  | 12/12/14 | MG | 12/11/14  | OP54208    | SW3902           |
| D65436-1    | W084291.D | 1  | 12/12/14 | MG | 12/11/14  | OP54208    | SW3902           |

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

D65436-1, D65436-2

| CAS No.  | Compound               | D65436-1<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|----------|------------------------|-------------------|---------------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 83-32-9  | Acenaphthene           | ND                | 361                 | 339         | 94      | 360            | 296          | 82       | 14  | 53-100/28         |
| 120-12-7 | Anthracene             | ND                | 180                 | 155         | 86      | 180            | 136          | 76       | 13  | 60-102/29         |
| 56-55-3  | Benzo(a)anthracene     | ND                | 180                 | 170         | 94      | 180            | 163          | 91       | 4   | 60-106/30         |
| 50-32-8  | Benzo(a)pyrene         | ND                | 180                 | 170         | 94      | 180            | 155          | 86       | 9   | 58-105/30         |
| 205-99-2 | Benzo(b)fluoranthene   | ND                | 180                 | 174         | 96      | 180            | 156          | 87       | 11  | 59-112/33         |
| 207-08-9 | Benzo(k)fluoranthene   | ND                | 180                 | 168         | 93      | 180            | 152          | 85       | 10  | 58-109/33         |
| 218-01-9 | Chrysene               | ND                | 180                 | 182         | 101     | 180            | 159          | 88       | 13  | 62-104/30         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND                | 180                 | 165         | 91      | 180            | 152          | 85       | 8   | 55-110/31         |
| 206-44-0 | Fluoranthene           | ND                | 361                 | 352         | 98      | 360            | 310          | 86       | 13  | 59-109/29         |
| 86-73-7  | Fluorene               | ND                | 361                 | 337         | 93      | 360            | 287          | 80       | 16  | 56-104/27         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND                | 180                 | 171         | 95      | 180            | 159          | 88       | 7   | 54-110/32         |
| 91-20-3  | Naphthalene            | ND                | 361                 | 313         | 87      | 360            | 261          | 73       | 18  | 49-101/28         |
| 129-00-0 | Pyrene                 | ND                | 361                 | 340         | 94      | 360            | 297          | 83       | 14  | 58-106/29         |

| CAS No.   | Surrogate Recoveries | MS  | MSD | D65436-1 | Limits  |
|-----------|----------------------|-----|-----|----------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 92% | 73% | 92%      | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 85% | 72% | 85%      | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 97% | 83% | 103%     | 45-119% |

\* = Outside of Control Limits.

12.3.1  
 12