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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
danny.white@cci.com**

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.

A handwritten signature in black ink, appearing to read 'Scott Heideman'.

**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 Date	Time By	Received	Matrix Code	Type	Client Sample ID
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

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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix AQ

Batch ID: 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.

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: GN27786

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

Wet Chemistry By Method SW846 3060A/7196A

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: R25445

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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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

Matrix SO

Batch ID: 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 Reclain, 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/ Qual	RL	MDL	Units	Method
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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 ^a	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 ^b	2.82			ratio	USDA HANDBOOK 60

D65436-2 2 CUTTINGS BINS

Chrysene ^c	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 ^a	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 ^b	2.06			ratio	USDA HANDBOOK 60

Summary of Hits

Page 2 of 2

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



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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- (a) Calculated as: (Chromium) - (Chromium, Hexavalent)
- (b) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]
- (c) Analysis performed at Accutest Laboratories, Orlando FL.

Sample Results

Report of Analysis

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
Method:	SW846 8260B SW846 5030A		
Project:	Summit 1 Reclaim, San Migual County		

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

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	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
Method:	SW846 8270D BY SIM SW846 3550C		
Project:	Summit 1 Reclaim, San Migual County		

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

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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

	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							

	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

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
Method:	SW846-8015B SW846 3546				
Project:	Summit 1 Reclaim, San Migual County				

	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							

	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%		

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

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

Report of Analysis

Client Sample ID:	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 Miguel 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 ¹	SW846 3050B ⁶
Barium	126	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 1.1	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Chromium	5.4	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Copper	4.7	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Lead	10.0	5.4	mg/kg	1	12/10/14	12/15/14 JB	SW846 6010C ⁴	SW846 3050B ⁵
Mercury	< 0.089	0.089	mg/kg	1	12/12/14	12/12/14 JB	SW846 7471B ³	SW846 7471B ⁷
Nickel	6.3	3.2	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Selenium	< 5.4	5.4	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Silver	< 3.2	3.2	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Zinc	18.5	3.2	mg/kg	1	12/10/14	12/15/14 JB	SW846 6010C ⁴	SW846 3050B ⁵

(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

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 Miguel County		

General Chemistry

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

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1 DIESEL FUEL TANK	Date Sampled:	12/05/14
Lab Sample ID:	D65436-1A	Date Received:	12/09/14
Matrix:	SO - Soil	Percent Solids:	92.4
Project:	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 ¹	SW846 3010A/M ²
Magnesium	8.12	1.0	mg/l	1	12/11/14	12/12/14 JB	SW846 6010C ¹	SW846 3010A/M ²
Sodium	85.5	2.0	mg/l	1	12/11/14	12/12/14 JB	SW846 6010C ¹	SW846 3010A/M ²

- (1) Instrument QC Batch: MA5582
(2) Prep QC Batch: MP14749

RL = Reporting Limit

Report of Analysis

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

General Chemistry

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

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

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

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

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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

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

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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

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

Report of Analysis

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

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 MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	2 CUTTINGS BINS	Date Sampled:	12/05/14
Lab Sample ID:	D65436-2	Date Received:	12/09/14
Matrix:	SO - Soil	Percent Solids:	92.3
Project:	Summit 1 Reclaim, San Miguel 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 ¹	SW846 3050B ⁶
Barium	111	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Cadmium	< 1.1	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Chromium	7.1	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Copper	7.0	1.1	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Lead	10.2	5.4	mg/kg	1	12/10/14	12/12/14 JB	SW846 6010C ⁴	SW846 3050B ⁵
Mercury	< 0.090	0.090	mg/kg	1	12/12/14	12/12/14 JB	SW846 7471B ³	SW846 7471B ⁷
Nickel	8.9	3.3	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Selenium	< 5.4	5.4	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Silver	< 3.3	3.3	mg/kg	1	12/10/14	12/11/14 JB	SW846 6010C ²	SW846 3050B ⁵
Zinc	20.9	3.3	mg/kg	1	12/10/14	12/12/14 JB	SW846 6010C ⁴	SW846 3050B ⁵

(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

Report of Analysis

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

General Chemistry

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

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	2 CUTTINGS BINS	Date Sampled:	12/05/14
Lab Sample ID:	D65436-2A	Date Received:	12/09/14
Matrix:	SO - Soil	Percent Solids:	92.3
Project:	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 ¹	SW846 3010A/M ²
Magnesium	30.9	1.0	mg/l	1	12/11/14	12/12/14 JB	SW846 6010C ¹	SW846 3010A/M ²
Sodium	104	2.0	mg/l	1	12/11/14	12/12/14 JB	SW846 6010C ¹	SW846 3010A/M ²

(1) Instrument QC Batch: MA5582

(2) Prep QC Batch: MP14749

RL = Reporting Limit

Report of Analysis

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

General Chemistry

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

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D65436 **Client:** _____ **Project:** _____
Date / Time Received: 12/9/2014 **Delivery Method:** _____ **Airbill #'s:** _____
Cooler Temps (Initial/Adjusted): 0

Cooler Security
Y or N

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

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| 2. Cooler temp verification: _____ ; _____ | |
| 3. Cooler media: _____ | Ice (Bag) |
| 4. No. Coolers: _____ | 1 |

Quality Control Preservation
Y or N N/A

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

Comments

Sample Integrity - Documentation
Y or N

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

Sample Integrity - Condition
Y or N

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

Sample Integrity - Instructions
Y or N N/A

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

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

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

Page 1 of 1

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-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 mg/kg	BSP mg/kg	BSP %	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

Page 1 of 1

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 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits 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

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

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-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%

Blank Spike Summary

Page 1 of 1

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-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 mg/kg	BSP mg/kg	BSP %	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

Page 1 of 1

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 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits 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.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: 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 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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

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

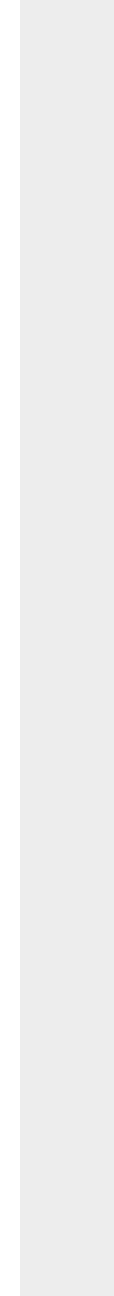
QC Batch ID: MP14734
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 12/10/14

Metal	RL	IDL	MDL	MB raw	final
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(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 Original MS		Spikelot ICPAL2	% Rec	QC 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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

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

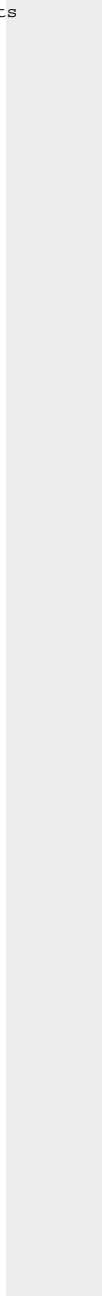
QC Batch ID: MP14734
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 12/10/14

Metal	D65477-2 Original MS	Spikelot ICPALL2	% Rec	QC Limits
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(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 Original	MSD	Spikelot ICPALL2	% Rec	MSD RPD	QC 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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

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

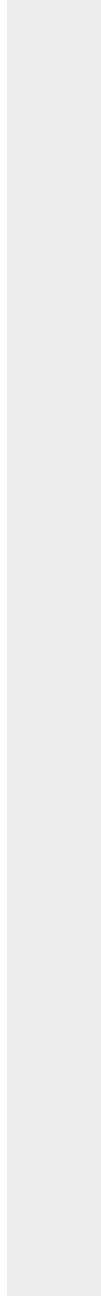
QC Batch ID: MP14734
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 12/10/14

Metal	D65477-2 Original MSD	Spikelet ICPALL2 % Rec	MSD RPD	QC Limit
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(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 Miguel 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 Migual County

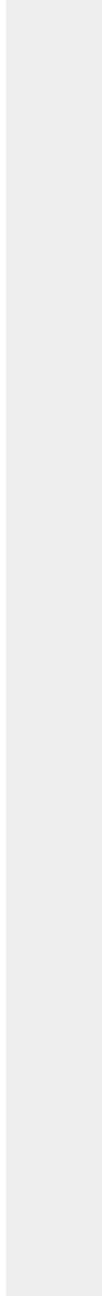
QC Batch ID: MP14734
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 12/10/14

Metal	BSP Result	Spikelot ICPALL2	% Rec	QC Limits
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(anr) Analyte not requested



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 Original	SDL 1:5	%DIF	QC 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

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.

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

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

QC Batch ID: 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		SpikeLot		QC
	Original	MS	ICPALL2	% Rec	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 Original	MSD	Spikelot ICPALL2	% Rec	MSD RPD	QC 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

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 Result	Spikelot ICPALL2	% Rec	QC 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

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			QC Limits
	Original	SDL 5:25	%DIF	

Arsenic	4.28	3.36	21.6*(a)	0-10
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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 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 Migual County

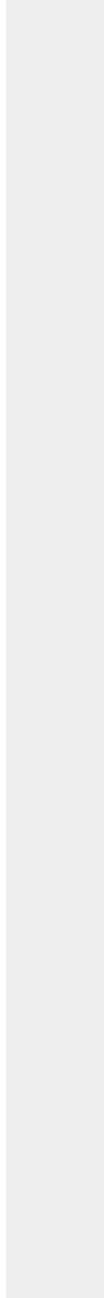
QC Batch ID: MP14749
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



8.3.1

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 Original MS		Spikelot ICPAL2	% Rec	QC 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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

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

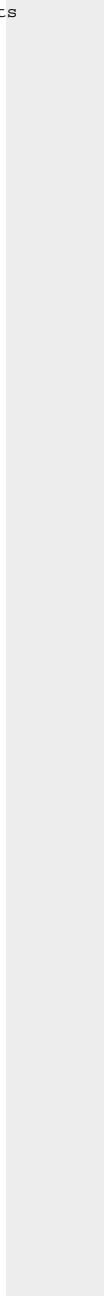
QC Batch ID: MP14749
 Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

Metal	D65436-1A Original MS	Spikelot ICPALL2	% Rec	QC Limits
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(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 Original MSD		Spikelot ICPALL2 % Rec		MSD RPD	QC 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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

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

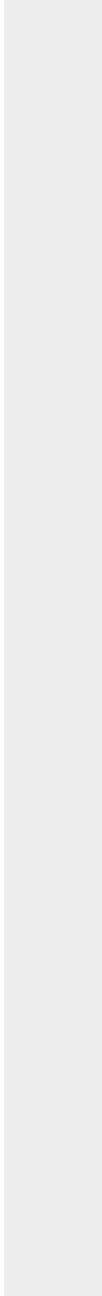
QC Batch ID: MP14749
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

Metal	D65436-1A Original MSD	SpikeLot ICPALL2 % Rec	MSD RPD	QC Limit
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(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 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 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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

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

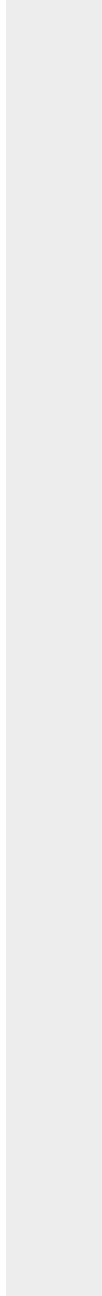
QC Batch ID: MP14749
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

Metal	BSP Result	Spikelot ICPALL2	% Rec	QC Limits
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(anr) Analyte not requested



8.3.3
8

SERIAL DILUTION 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 Original SDL 1:5		%DIF	QC 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

SERIAL DILUTION RESULTS SUMMARY

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

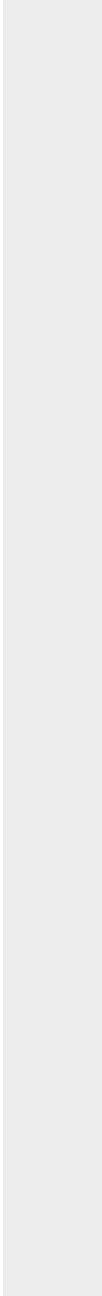
QC Batch ID: MP14749
Matrix Type: AQUEOUS

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

Prep Date: 12/11/14

	D65436-1A		QC
Metal	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	
				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

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 Original MS	Spikelot HGWSR1	% Rec	QC Limits
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Mercury	0.0	0.34	0.341	99.8	75-125
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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

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 Original	MSD	Spikelot HGWSR1	% Rec	MSD RPD	QC 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

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 Result	Spikelot HGWSR1	% Rec	QC Limits
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Mercury	0.33	0.333	99.0	80-120
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Associated samples MP14751: D65436-1, D65436-2

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

84.3

8

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: 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

Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY									
Client Information				Subcontract Laboratory Information				Analytical Information	
Name: Accutest Mountain States (AMS) Address: 4036 Youngfield St. City: Wheat Ridge, State: CO Zip: 80033 Send Report to: Scott Heideman Any questions contact: Renea Rooks Phone/Fax #: (303) 425-6021; (303) 425-6854				Name: Accutest - Southeast Address: 4405 Vineland Rd Suite C-15 City: Orlando, State: FL Zip: 32811 Contact: Sample Management Phone: (407) 425-6700				Accutest Job #: D65436 Accutest Quote #: 0 AMS P.O. #: Project No.:	
Field ID / Point of Collection		Date	TIME	Matrix	# of bottles	Preservation		V8260BTX B8270SIMPAN9TOL	Comments
D65436 -1		12/5/14	12:20 PM	Soil	1	HCL NaOH HN03 H2SO4 None			
-2		12/5/14	12:20 PM	Soil	1				
Turnaround Information <input checked="" type="checkbox"/> 3 - 5 Business Day Rush <input type="checkbox"/> _____ (Days) Approved By: _____ 10 Day Turnaround Hardcopy, RUSH is FAX Data unless previously approved.				Data Deliverable Information <input type="checkbox"/> Commercial "A" <input type="checkbox"/> PDF <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Compact Disk Deliverable <input type="checkbox"/> Commercial "BN" <input type="checkbox"/> Electronic Delivery: _____ <input type="checkbox"/> Reduced Tier 1 <input checked="" type="checkbox"/> State Forms <input type="checkbox"/> Full Tier 1 <input type="checkbox"/> Other (Specify) _____				Comments / Remarks Please use Colorado regulations and RLs.	
Sample Custody must be documented below each time sample changes possession, including courier delivery. For Subcontract Laboratory Use Only.									
Relinquished by: <i>W</i>		Date & Time: <i>12/1/14 1300</i>		Received By: <i>RA</i>		Date & Time: <i>12/1/14 1300</i>		Seal # _____ Headspace: Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	
Relinquished by: <i>EP</i>		Date & Time: <i>12/10/14 1030</i>		Received By: <i>RW</i>		Date & Time: <i>12/10/14 1030</i>		Preserved where applicable: <input type="checkbox"/> On Ice: <input type="checkbox"/>	
Relinquished by: <i>3</i>		Date & Time: _____		Received By: <i>3</i>		Date & Time: _____		Temperature °C: <i>3.4</i>	

10.1 10

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 ? _____

pH PAPER LOT#s WIDE RANGE A036122

NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

- ☐ IR THERM ID 1 CORR. FACTOR 46.4
- ☐ 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}

TECHNICIAN SIGNATURE/DATE

RW 12-10-14

REVIEWER SIGNATURE/DATE

Jay Lee 12/10/14

NF 10/14

receipt confirmation 102914.xls

D65436: Chain of Custody

Page 2 of 3

ORIGIN ID: 11111111 (303) 425-6021
 SAMPLE SHIPPING STATES
 4026 YOUNGFIELD STREET
 WHEAT RIDGE, CO 800338882
 UNITED STATES US
 10
 TO
 ACCUTEST FLORIDA
 4405 VINELAND ROAD
 ORLANDO FL 32811
 INV: SUB OUT
 34
 FedEx
 121113062506111517
 E

FedEx
 WED - 10 DEC AA
 STANDARD OVERNIGHT
 0201 5810 2761 9259

XH TIXA
 32811
 FLUS
 MCO



121113062506111517
 0201 5810 2761 9259

D65436: Chain of Custody
 Page 3 of 3

GC/MS Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

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%

Blank Spike Summary

Page 1 of 1

Job Number: D65436

Account: ALMS Accutest Mountain States

Project: POAGCORV: Summit 1 Reclaim, San Miguel 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 ug/kg	BSP ug/kg	BSP %	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

Page 1 of 1

Job Number: D65436

Account: ALMS Accutest Mountain States

Project: POAGCORV: Summit 1 Reclaim, San Miguel 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 ^a	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 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits 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

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: D65436

Account: ALMS Accutest Mountain States

Project: POAGCORV: Summit 1 Reclaim, San Miguel 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%

Blank Spike Summary

Page 1 of 1

Job Number: D65436

Account: ALMS Accutest Mountain States

Project: POAGCORV: Summit 1 Reclaim, San Miguel 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.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D65436
Account: ALMS Accutest Mountain States
Project: POAGCORV: Summit 1 Reclaim, San Miguel 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 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits 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.