Mountain States ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/12/10

Technical Report for

KRW Consulting, Inc.

296-7A

1006-11

Accutest Job Number: D14329

Sampling Date: 06/15/10

Report to:

KRW Consulting, Inc.
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ATTN: Dwayne Knudson

Total number of pages in report: **184**

ACCREDITED IN ACCORDANCE WITH nelac

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

Jesse L. Smith
Laboratory Director

Client Service contact: Amanda Kissell 303-425-6021

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

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Test results relate only to samples analyzed.

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Sample Summary

KRW Consulting, Inc.

Job No: D14329

296-7A
Project No: 1006-11

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14329-1	06/15/10	15:25	JH	06/17/10	SO	Soil	296-7A H-17
D14329-2	06/15/10	15:45	JH	06/17/10	SO	Soil	296-7A H-18
D14329-3	06/15/10	14:10	JH	06/17/10	SO	Soil	296-7A H-7
D14329-4	06/15/10	14:15	JH	06/17/10	SO	Soil	296-7A H-9
D14329-5	06/15/10	14:25	JH	06/17/10	SO	Soil	296-7A H-11
D14329-6	06/15/10	16:00	JH	06/17/10	SO	Soil	296-7A H-19
D14329-7	06/15/10	16:05	JH	06/17/10	SO	Soil	296-7A H-20
D14329-8	06/15/10	16:15	JH	06/17/10	SO	Soil	296-7A H-21
D14329-9	06/15/10	14:40	JH	06/17/10	SO	Soil	296-7A H-14
D14329-10	06/15/10	16:20	JH	06/17/10	SO	Soil	296-7A H-22
D14329-11	06/15/10	16:25	JH	06/17/10	SO	Soil	296-7A H-23
D14329-12	06/15/10	13:30	JH	06/17/10	SO	Soil	296-7A H-1
D14329-13	06/15/10	13:50	JH	06/17/10	SO	Soil	296-7A H-3

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

Sample Summary
(continued)

KRW Consulting, Inc.

Job No: D14329

296-7A
Project No: 1006-11

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14329-14	06/15/10	13:55	JH	06/17/10	SO	Soil	296-7A H-4
D14329-15	06/15/10	09:15	JH	06/17/10	SO	Soil	296-7A GR
D14329-15A	06/15/10	09:15	JH	06/17/10	SO	Soil	296-7A GR
D14329-16	06/15/10	14:32	JH	06/17/10	SO	Soil	296-7A SO
D14329-16A	06/15/10	14:32	JH	06/17/10	SO	Soil	296-7A SO
D14329-17	06/15/10	09:00	JH	06/17/10	SO	Soil	296-7A GRSW
D14329-18	06/15/10	14:32	JH	06/17/10	SO	Soil	296-7A SOSW

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	KRW Consulting, Inc.	**Job No**	D14329
Site:	296-7A	**Report Dat**	7/12/2010 1:27:52 PM

On 06/17/2010, 18 sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.5 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D14329 was assigned to the project. The lab sample IDs, client sample IDs, and dates 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.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix SO **Batch ID:** M:OP21816

- The data for SW846 8270C BY SIM meets quality control requirements.
- Analysis performed at Accutest Laboratories, Marlborough, MA.

Volatiles by GC By Method SW846 8015B

Matrix SO **Batch ID:** GGB288

- All samples were analyzed within the recommended method holding time.
- Sample(s) D14329-1MS, D14329-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- D14329-16 for 1,2,4 Trichlorobenzene: Outside control limits due to matrix interference.

Volatiles by GC By Method SW846 8021B

Matrix LEACHATE **Batch ID:** OP2065

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix SO **Batch ID:** GTB288

- All samples were analyzed within the recommended method holding time.
- Sample(s) D14329-1MS, D14329-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- D14329-16 for 1,2,4-Trichlorobenzene: Outside control limits due to matrix interference.

Extractables by GC By Method SW846-8015B

Matrix SO **Batch ID:** OP2047

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) D14329-1MS, D14329-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP2147

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14329-7MS, D14329-7MSD were used as the QC samples for metals.

Matrix AQ **Batch ID:** MP2151

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14311-1AMS, D14311-1AMSD were used as the QC samples for metals.

Matrix LEACHATE **Batch ID:** MP2120

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14184-1MS, D14184-1MSD were used as the QC samples for metals.

Matrix SO **Batch ID:** MP2108

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14325-1MS, D14325-1MSD, D14325-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Cadmium, Selenium, Barium, Chromium, Copper, Lead, Nickel, Zinc are outside control limits for sample MP2108-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 6020

Matrix SO **Batch ID:** MP2109

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14325-1MS, D14325-1MSD, D14325-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP2109-SD1. Probable cause due to sample homogeneity.

Metals By Method SW846 7470A

Matrix LEACHATE **Batch ID:** MP2121

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14184-1MSD, D14184-1MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference.

Metals By Method SW846 7471A

Matrix SO **Batch ID:** MP2187

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14375-1MS, D14375-1MSD were used as the QC samples for metals.

Wet Chemistry By Method ASTM E1498-76M

Matrix	SO	Batch ID:	M:GN32194

- The data for ASTM E1498-76M meets quality control requirements.
- The following samples were run outside of holding time for method ASTM E1498-76M: D14329-15, D14329-16.
- Redox Potential Vs H2: Analysis performed at Accutest Laboratories, Marlborough, MA.

Wet Chemistry By Method LADNR29B

Matrix	SO	Batch ID:	R2892

- The data for LADNR29B meets quality control requirements.
- Sodium Adsorption Ratio: Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+(Mg meq/L)/2]

Wet Chemistry By Method SM19 2540B M

Matrix	SO	Batch ID:	GN4921

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

Wet Chemistry By Method SW846 1010, PM CC

Matrix	ALL	Batch ID:	GN4944

- The data for SW846 1010, PM CC meets quality control requirements.
- D14329-17 for Flashpoint At 620 mm Hg: Not ignitable
- D14329-18 for Flashpoint At 620 mm Hg: Ignitable

Wet Chemistry By Method SW846 3060/7196A M

Matrix	SO	Batch ID:	R3171

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

Wet Chemistry By Method SW846 3060A/7196A

Matrix	SO	Batch ID:	M:GP11738

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

Wet Chemistry By Method SW846 7.2

Matrix	SO	Batch ID:	GN4920

- D14329-18 for Corrosivity as pH: Non Corrosive
- D14329-17 for Corrosivity as pH: Non Corrosive

Wet Chemistry By Method SW846 9045C

Matrix	SO	Batch ID:	GN4905

- The following samples were run outside of holding time for method SW846 9045C: D14329-1 through D14329-16.

Wet Chemistry By Method SW846 9071B

Matrix SO	**Batch ID:** GP2207

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14329-17MSD, D14329-17MS were used as the QC samples for HEM Petroleum Hydrocarbons.
- Matrix Spike Recovery(s) for HEM Petroleum Hydrocarbons are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method SW846 9095

Matrix SO	**Batch ID:** GN4945

- The data for SW846 9095 meets quality control requirements.
- D14329-17 for Paint Filter Test: No free liquids.
- D14329-18 for Paint Filter Test: No free liquids.

Wet Chemistry By Method SW846 CHAP 7.3

Matrix SO	**Batch ID:** GP2165

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SW846 CHAP7

Matrix SO	**Batch ID:** GP2166

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

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**	D14329
Site:	KRWCCOL: 296-7A	**Report Date**	7/12/2010 10:25:27 AM

2 Sample(s) were collected on 06/15/2010 and were received at Accutest on 06/17/2010 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of D14329. 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.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix SO **Batch ID:** OP21816

- 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.
- D14329-15, D14329-16: Confirmation run for internal standard areas.
- RPD of MSD for 2-Methylnaphthalene, Naphthalene is outside control limits. High RPD due to possible matrix interference and/or sample non-homogeneity.
- OP21816-MSD for Naphthalene is outside control limits due to possible matrix interference. Refer to Blank Spike.

Wet Chemistry By Method ASTM E1498-76M

Matrix SO **Batch ID:** GN32194

- Sample(s) D14177-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SW846 3060A/7196A

Matrix SO **Batch ID:** GP11738

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D14038-4DUP, D14038-4MS were used as the QC samples for Chromium, Hexavalent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(D14329).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	296-7A H-17		
Lab Sample ID:	D14329-1	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	90.8
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5277.D	1	06/20/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	92%		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:	296-7A H-17		
Lab Sample ID:	D14329-1	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	90.8
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5277.D	1	06/20/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.5	5.5	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	11	ug/kg	
	m,p-Xylene	ND	11	11	ug/kg	
95-47-6	o-Xylene	ND	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	92%		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:	296-7A H-17		
Lab Sample ID:	D14329-1	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	90.8
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2157.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	16.1	15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		63-130%

ND = Not detected
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:	296-7A H-17		
Lab Sample ID:	D14329-1	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	90.8
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Calcium	37.2	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	9.81	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	48.0	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-17		
Lab Sample ID:	D14329-1	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	90.8
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.81		ratio	1	06/23/10 19:47	JM	LADNR29B
Solids, Percent	90.8		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	545	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.38		su	1	06/17/10 16:15	JK	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-18		
Lab Sample ID:	D14329-2	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	93.1
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5308.D	1	06/22/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	106%		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:	296-7A H-18		
Lab Sample ID:	D14329-2	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	93.1
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5308.D	1	06/22/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.4	5.4	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	11	ug/kg	
	m,p-Xylene	ND	11	11	ug/kg	
95-47-6	o-Xylene	12.7	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	102%		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:	296-7A H-18		
Lab Sample ID:	D14329-2	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	93.1
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2160.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	16.9	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		63-130%

ND = Not detected
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:	296-7A H-18		
Lab Sample ID:	D14329-2	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	93.1
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	150	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	38.6	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	199	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-18		
Lab Sample ID:	D14329-2	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	93.1
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	3.75		ratio	1	06/23/10 19:54	JM	LADNR29B
Solids, Percent	93.1		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	1990	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.35		su	1	06/17/10 16:15	JK	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-7		
Lab Sample ID:	D14329-3	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	92.3
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5311.D	1	06/22/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	95%		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:	296-7A H-7		
Lab Sample ID:	D14329-3	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	92.3
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5311.D	1	06/22/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.4	5.4	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	11	ug/kg	
	m,p-Xylene	ND	11	11	ug/kg	
95-47-6	o-Xylene	ND	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	96%		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:	296-7A H-7		
Lab Sample ID:	D14329-3	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	92.3
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2161.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		63-130%

ND = Not detected
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:	296-7A H-7		
Lab Sample ID:	D14329-3	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.3
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	21.7	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	5.06	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	25.6	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-7		
Lab Sample ID:	D14329-3	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.3
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.29		ratio	1	06/23/10 20:00	JM	LADNR29B
Solids, Percent	92.3		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	295	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.29		su	1	06/17/10 16:15	JK	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-9		
Lab Sample ID:	D14329-4	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	87.4
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5312.D	1	06/22/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	92%		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:	296-7A H-9		
Lab Sample ID:	D14329-4	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	87.4
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5312.D	1	06/22/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.7	5.7	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	11	ug/kg	
	m,p-Xylene	ND	11	11	ug/kg	
95-47-6	o-Xylene	ND	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	93%		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:	296-7A H-9		
Lab Sample ID:	D14329-4	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	87.4
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2162.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		63-130%

ND = Not detected
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:	296-7A H-9		
Lab Sample ID:	D14329-4	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	87.4
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	53.3	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	9.57	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	21.0	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-9		
Lab Sample ID:	D14329-4	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	87.4
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.695		ratio	1	06/23/10 20:06	JM	LADNR29B
Solids, Percent	87.4		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	476	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.15		su	1	06/17/10 16:15	JK	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-11		
Lab Sample ID:	D14329-5	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	92.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5298.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	112%		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:	296-7A H-11		
Lab Sample ID:	D14329-5	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	92.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5298.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.4	5.4	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	11	ug/kg	
	m,p-Xylene	ND	11	11	ug/kg	
95-47-6	o-Xylene	ND	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	112%		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:	296-7A H-11		
Lab Sample ID:	D14329-5	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	92.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2163.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		63-130%

ND = Not detected
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:	296-7A H-11		
Lab Sample ID:	D14329-5	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.6
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	18.0	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	4.31	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	14.8	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-11		
Lab Sample ID:	D14329-5	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.6
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.813		ratio	1	06/23/10 20:12	JM	LADNR29B
Solids, Percent	92.6		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	212	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.45		su	1	06/17/10 16:15	JK	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-19		
Lab Sample ID:	D14329-6	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	84.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5285.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	94%		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:	296-7A H-19		
Lab Sample ID:	D14329-6	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	84.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5285.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.9	5.9	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	95%		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:	296-7A H-19		
Lab Sample ID:	D14329-6	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	84.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2164.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		63-130%

ND = Not detected
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:	296-7A H-19		
Lab Sample ID:	D14329-6	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	84.6
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	20.7	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	7.28	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	16.3	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-19		
Lab Sample ID:	D14329-6	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	84.6
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.785		ratio	1	06/23/10 20:18	JM	LADNR29B
Solids, Percent	84.6		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	256	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.40		su	1	06/17/10 16:15	JK	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-20		
Lab Sample ID:	D14329-7	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	83.8
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5286.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	94%		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:	296-7A H-20		
Lab Sample ID:	D14329-7	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	83.8
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5286.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	6.0	6.0	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	95%		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:	296-7A H-20		
Lab Sample ID:	D14329-7	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	83.8
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2165.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		63-130%

ND = Not detected
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:	296-7A H-20		
Lab Sample ID:	D14329-7	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	83.8
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	74.9	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	15.5	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	17.8	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-20		
Lab Sample ID:	D14329-7	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	83.8
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.489		ratio	1	06/23/10 19:29	JM	LADNR29B
Solids, Percent	83.8		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	610	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	8.70		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-21		
Lab Sample ID:	D14329-8	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	88.9
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5287.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	99%		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:	296-7A H-21		
Lab Sample ID:	D14329-8	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	88.9
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5287.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.6	5.6	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	11	ug/kg	
	m,p-Xylene	ND	11	11	ug/kg	
95-47-6	o-Xylene	ND	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	100%		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:	296-7A H-21		
Lab Sample ID:	D14329-8	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	88.9
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2166.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	105	15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		63-130%

ND = Not detected
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:	296-7A H-21		
Lab Sample ID:	D14329-8	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	88.9
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	54.5	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	10.8	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	138	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-21		
Lab Sample ID:	D14329-8	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	88.9
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	4.47		ratio	1	06/23/10 20:24	JM	LADNR29B
Solids, Percent	88.9		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	1100	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	8.88		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-14		
Lab Sample ID:	D14329-9	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	96.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5288.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.0	1.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	108%		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:	296-7A H-14		
Lab Sample ID:	D14329-9	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	96.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5288.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.2	5.2	ug/kg	
108-88-3	Toluene	ND	10	10	ug/kg	
100-41-4	Ethylbenzene	ND	10	10	ug/kg	
	m,p-Xylene	ND	10	10	ug/kg	
95-47-6	o-Xylene	ND	10	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	111%		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:	296-7A H-14		
Lab Sample ID:	D14329-9	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	96.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2174.D	1	06/22/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	287	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		63-130%

ND = Not detected
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:	296-7A H-14		
Lab Sample ID:	D14329-9	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	96.2
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	14.9	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	3.64	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	19.3	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-14		
Lab Sample ID:	D14329-9	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	96.2
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.16		ratio	1	06/23/10 20:41	JM	LADNR29B
Solids, Percent	96.2		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	216	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.38		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-22		
Lab Sample ID:	D14329-10	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	84.0
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5289.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	98%		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:	296-7A H-22		
Lab Sample ID:	D14329-10	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	84.0
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5289.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	6.0	6.0	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	100%		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:	296-7A H-22		
Lab Sample ID:	D14329-10	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	84.0
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2175.D	1	06/22/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	309	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		63-130%

ND = Not detected
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:	296-7A H-22		
Lab Sample ID:	D14329-10	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	84.0
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Calcium	32.7	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	4.74	1.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	58.8	2.0	mg/l	1	06/23/10	06/23/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2147

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-22		
Lab Sample ID:	D14329-10	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	84.0
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.54		ratio	1	06/23/10 20:48	JM	LADNR29B
Solids, Percent	84		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	453	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.33		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-23		
Lab Sample ID:	D14329-11	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	85.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5292.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	95%		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:	296-7A H-23		
Lab Sample ID:	D14329-11	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	85.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5292.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.8	5.8	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	95%		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:	296-7A H-23		
Lab Sample ID:	D14329-11	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	85.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2176.D	1	06/22/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	43.8	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		63-130%

ND = Not detected
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:	296-7A H-23		
Lab Sample ID:	D14329-11	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	85.7
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	130	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	14.0	1.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	127	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2151

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-23		
Lab Sample ID:	D14329-11	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	85.7
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.82		ratio	1	06/24/10 08:42	JM	LADNR29B
Solids, Percent	85.7		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	1240	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.09		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-1		
Lab Sample ID:	D14329-12	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	83.9
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5293.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	105%		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:	296-7A H-1		
Lab Sample ID:	D14329-12	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	83.9
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5293.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	6.0	6.0	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	105%		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:	296-7A H-1		
Lab Sample ID:	D14329-12	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	83.9
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2177.D	1	06/22/10	CP	06/19/10	OP2047	GFD125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		63-130%

ND = Not detected
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:	296-7A H-1		
Lab Sample ID:	D14329-12	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	83.9
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Calcium	17.8	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	3.75	1.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	36.8	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2151

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-1		
Lab Sample ID:	D14329-12	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	83.9
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.07		ratio	1	06/24/10 09:05	JM	LADNR29B
Solids, Percent	83.9		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	276	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	8.97		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-3		
Lab Sample ID:	D14329-13	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	85.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5294.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	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:	296-7A H-3		
Lab Sample ID:	D14329-13	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	85.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5294.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.8	5.8	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/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:	296-7A H-3		
Lab Sample ID:	D14329-13	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	85.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2178.D	1	06/22/10	CP	06/19/10	OP2047	GFD125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		63-130%

ND = Not detected
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:	296-7A H-3		
Lab Sample ID:	D14329-13	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	85.7
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	20.0	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	4.70	1.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	26.1	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2151

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-3		
Lab Sample ID:	D14329-13	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	85.7
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.36		ratio	1	06/24/10 09:10	JM	LADNR29B
Solids, Percent	85.7		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	234	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.24		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-4		
Lab Sample ID:	D14329-14	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	85.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5295.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	96%		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:	296-7A H-4		
Lab Sample ID:	D14329-14	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	85.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5295.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.8	5.8	ug/kg	
108-88-3	Toluene	ND	12	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	12	ug/kg	
	m,p-Xylene	ND	12	12	ug/kg	
95-47-6	o-Xylene	ND	12	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	98%		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:	296-7A H-4		
Lab Sample ID:	D14329-14	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	85.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2179.D	1	06/22/10	CP	06/19/10	OP2047	GFD125
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	18.2	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		63-130%

ND = Not detected
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:	296-7A H-4		
Lab Sample ID:	D14329-14	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	85.6
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Calcium	21.8	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	4.94	1.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	27.7	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2151

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A H-4		
Lab Sample ID:	D14329-14	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	85.6
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.39		ratio	1	06/24/10 09:16	JM	LADNR29B
Solids, Percent	85.6		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	243	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.06		su	1	06/18/10 08:15	CJ	SW846 9045C

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A GR		
Lab Sample ID:	D14329-15	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8270C BY SIM SW846 3545	**Percent Solids:**	97.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F47878.D	1	07/09/10	AMA	06/29/10	M:OP21816	M:MSF2261
Run #2 [b]	F47900.D	1	07/10/10	AMA	06/29/10	M:OP21816	M:MSF2262

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2	20.4 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	117	25	0.59	ug/kg	
208-96-8	Acenaphthylene	ND	25	0.94	ug/kg	
120-12-7	Anthracene	ND	25	0.82	ug/kg	
56-55-3	Benzo(a)anthracene	36.6	25	0.63	ug/kg	
50-32-8	Benzo(a)pyrene	ND	25	0.73	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	25	0.62	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	25	2.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	25	0.97	ug/kg	
218-01-9	Chrysene	ND	25	0.78	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	25	1.5	ug/kg	
206-44-0	Fluoranthene	18.0	25	0.80	ug/kg	J
86-73-7	Fluorene	108	25	0.44	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	25	1.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	25	1.1	ug/kg	
91-20-3	Naphthalene	6.3	25	1.1	ug/kg	J
85-01-8	Phenanthrene	310	25	1.0	ug/kg	
129-00-0	Pyrene	34.6	25	1.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%	74%	30-130%
321-60-8	2-Fluorobiphenyl	70%	71%	30-130%
1718-51-0	Terphenyl-d14	93%	91%	30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.
(b) Confirmation run for internal standard areas. Analysis performed at Accutest Laboratories, Marlborough, MA.

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:	296-7A GR		
Lab Sample ID:	D14329-15	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	97.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5296.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.0	1.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	107%		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:	296-7A GR		
Lab Sample ID:	D14329-15	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	97.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5296.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.1	5.1	ug/kg	
108-88-3	Toluene	ND	10	10	ug/kg	
100-41-4	Ethylbenzene	ND	10	10	ug/kg	
	m,p-Xylene	ND	10	10	ug/kg	
95-47-6	o-Xylene	ND	10	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	101%		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:	296-7A GR		
Lab Sample ID:	D14329-15	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	97.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2198.D	50	06/23/10	CP	06/19/10	OP2047	GFD126
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	15000	680	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	118%		63-130%

ND = Not detected
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:	296-7A GR		
Lab Sample ID:	D14329-15	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	97.2
Project:	296-7A		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.79	0.31	mg/kg	5	06/18/10	06/21/10	JM	SW846 6020 [3]	SW846 3050B [6]
Barium	48.2	0.77	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Cadmium	< 0.77	0.77	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Chromium	3.4	0.77	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Copper	4.2	0.38	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Lead	< 3.8	3.8	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Mercury	0.74	0.20	mg/kg	2	06/28/10	06/28/10	RN	SW846 7471A [4]	SW846 7471A [7]
Nickel	4.8	2.3	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Selenium	< 3.8	3.8	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Silver	< 2.3	2.3	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Zinc	14.6	2.3	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA762
(2) Instrument QC Batch: MA764
(3) Instrument QC Batch: MA765
(4) Instrument QC Batch: MA781
(5) Prep QC Batch: MP2108
(6) Prep QC Batch: MP2109
(7) Prep QC Batch: MP2187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A GR		
Lab Sample ID:	D14329-15	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	97.2
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent [a]	< 2.0	2.0	mg/kg	1	06/22/10 12:55	AMA	SW846 3060A/7196A
Chromium, Trivalent [b]	< 2.8	2.8	mg/kg	1	06/22/10 12:55	AMA	SW846 3060/7196A M
Redox Potential Vs H2 [a]	369		mv	1	06/21/10	AMA	ASTM E1498-76M
Solids, Percent	97.2		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	228	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	9.05		su	1	06/18/10 08:15	CJ	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.
(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A GR		
Lab Sample ID:	D14329-15A	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	97.2
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	30.7	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	8.05	1.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	11.1	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2151

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A GR		
Lab Sample ID:	D14329-15A	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	97.2
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.461		ratio	1	06/24/10 09:22	JM	LADNR29B

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A SO		
Lab Sample ID:	D14329-16	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8270C BY SIM SW846 3545	**Percent Solids:**	92.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F47879.D	1	07/09/10	AMA	06/29/10	M:OP21816	M:MSF2261
Run #2 [b]	F47901.D	1	07/10/10	AMA	06/29/10	M:OP21816	M:MSF2262

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2	20.3 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	130	27	0.62	ug/kg	
208-96-8	Acenaphthylene	ND	27	0.99	ug/kg	
120-12-7	Anthracene	ND	27	0.87	ug/kg	
56-55-3	Benzo(a)anthracene	ND	27	0.66	ug/kg	
50-32-8	Benzo(a)pyrene	ND	27	0.77	ug/kg	
205-99-2	Benzo(b)fluoranthene	7.2	27	0.65	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	27	2.1	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	27	1.0	ug/kg	
218-01-9	Chrysene	17.3	27	0.82	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	27	1.5	ug/kg	
206-44-0	Fluoranthene	8.8	27	0.85	ug/kg	J
86-73-7	Fluorene	ND	27	0.47	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	27	1.4	ug/kg	
91-57-6	2-Methylnaphthalene	1220	27	1.1	ug/kg	
91-20-3	Naphthalene	184	27	1.2	ug/kg	
85-01-8	Phenanthrene	356	27	1.1	ug/kg	
129-00-0	Pyrene	22.8	27	1.9	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%	64%	30-130%
321-60-8	2-Fluorobiphenyl	54%	54%	30-130%
1718-51-0	Terphenyl-d14	70%	72%	30-130%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.
(b) Confirmation run for internal standard areas. Analysis performed at Accutest Laboratories, Marlborough, MA.

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:	296-7A SO		
Lab Sample ID:	D14329-16	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8015B	**Percent Solids:**	92.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB5297.D	1	06/21/10	DG	n/a	n/a	GGB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	39.0	1.1	1.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	-1% [a]		60-140%

(a) Outside control limits due to matrix interference.

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

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

Report of Analysis

Client Sample ID:	296-7A SO		
Lab Sample ID:	D14329-16	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	92.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5297.D	1	06/21/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.4	5.4	ug/kg	
108-88-3	Toluene	ND	11	11	ug/kg	
100-41-4	Ethylbenzene	40.8	11	11	ug/kg	
	m,p-Xylene	296	11	11	ug/kg	
95-47-6	o-Xylene	170	11	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	181% [a]		60-140%

(a) Outside control limits due to matrix interference.

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

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

Report of Analysis

Client Sample ID:	296-7A SO		
Lab Sample ID:	D14329-16	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846-8015B SW846 3550B	**Percent Solids:**	92.2
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD2199.D	20	06/23/10	CP	06/19/10	OP2047	GFD126
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	5780	290	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		63-130%

ND = Not detected
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:	296-7A SO		
Lab Sample ID:	D14329-16	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.2
Project:	296-7A		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.6	0.34	mg/kg	5	06/18/10	06/21/10	JM	SW846 6020 [3]	SW846 3050B [6]
Barium	264	0.85	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Cadmium	< 0.85	0.85	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Chromium	18.6	0.85	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Copper	7.0	0.42	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Lead	14.1	4.2	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Mercury	< 0.11	0.11	mg/kg	1	06/28/10	06/28/10	RN	SW846 7471A [4]	SW846 7471A [7]
Nickel	10.5	2.5	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Selenium	< 4.2	4.2	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]
Silver	< 2.5	2.5	mg/kg	1	06/18/10	06/19/10	JM	SW846 6010B [1]	SW846 3050B [5]
Zinc	40.1	2.5	mg/kg	1	06/18/10	06/21/10	JM	SW846 6010B [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA762
(2) Instrument QC Batch: MA764
(3) Instrument QC Batch: MA765
(4) Instrument QC Batch: MA781
(5) Prep QC Batch: MP2108
(6) Prep QC Batch: MP2109
(7) Prep QC Batch: MP2187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A SO		
Lab Sample ID:	D14329-16	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.2
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent [a]	< 2.1	2.1	mg/kg	1	06/22/10 12:55	AMA	SW846 3060A/7196A
Chromium, Trivalent [b]	18.6	3.0	mg/kg	1	06/22/10 12:55	AMA	SW846 3060/7196A M
Redox Potential Vs H2 [a]	367		mv	1	06/21/10	AMA	ASTM E1498-76M
Solids, Percent	92.2		%	1	06/18/10	SWT	SM19 2540B M
Specific Conductivity	224	1.0	umhos/cm	1	06/23/10	JD	DEPT.OF AG, BOOK N9
pH	8.24		su	1	06/18/10 08:15	CJ	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.
(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A SO		
Lab Sample ID:	D14329-16A	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.2
Project:	296-7A		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	18.9	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Magnesium	4.94	1.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]
Sodium	28.0	2.0	mg/l	1	06/23/10	06/24/10	JM	SW846 6010B [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA770
(2) Prep QC Batch: MP2151

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A SO		
Lab Sample ID:	D14329-16A	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	92.2
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.48		ratio	1	06/24/10 09:29	JM	LADNR29B

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A GRSW		
Lab Sample ID:	D14329-17	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B	**Percent Solids:**	97.7
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5313.D	1	06/22/10	DG	n/a	n/a	GTB288
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/kg	
108-88-3	Toluene	ND	2.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/kg	
	m,p-Xylene	ND	2.0	2.0	ug/kg	
95-47-6	o-Xylene	ND	2.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	137%		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:	296-7A GRSW		
Lab Sample ID:	D14329-17	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	97.7
Project:	296-7A		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.025	D004	5.0	0.025	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Barium	2.1	D005	100	1.0	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 0.010	D006	1.0	0.010	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Lead	0.13	D008	5.0	0.050	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.00010	D009	0.20	0.00010	mg/l	1	06/23/10	06/23/10	RN	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 0.050	D010	1.0	0.050	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Silver	< 0.030	D011	5.0	0.030	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA770
(2) Instrument QC Batch: MA771
(3) Prep QC Batch: MP2120
(4) Prep QC Batch: MP2121

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

Report of Analysis

Client Sample ID:	296-7A GRSW		
Lab Sample ID:	D14329-17	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	97.7
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH [a]	8.58		su	1	06/18/10 08:15	CJ	SW846 7.2
Cyanide Reactivity	< 1.5	1.5	mg/kg	1	06/18/10	JD	SW846 CHAP7
Flashpoint At 620 mm Hg [b]	> 140		Deg. F	1	06/19/10	JK	SW846 1010, PM CC
HEM Petroleum Hydrocarbons	3810	50	mg/kg	1.001	06/24/10	SWT	SW846 9071B
Paint Filter Test [c]	< 1.0	1.0	ml/100g	1	06/19/10	JK	SW846 9095
Solids, Percent	97.7		%	1	06/18/10	SWT	SM19 2540B M
Sulfide Reactivity	15.0	10	mg/kg	1	06/18/10	JD	SW846 CHAP 7.3

(a) Non Corrosive
(b) Not ignitable
(c) No free liquids.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7A SOSW		
Lab Sample ID:	D14329-18	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
Method:	SW846 8021B SW846 1311	**Percent Solids:**	91.6
Project:	296-7A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7103.D	10	06/23/10	DG	06/23/10	OP2065	GTA421
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.010	0.010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	117%		60-140%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
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:	296-7A SOSW		
Lab Sample ID:	D14329-18	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	91.6
Project:	296-7A		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.025	D004	5.0	0.025	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Barium	1.5	D005	100	1.0	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 0.010	D006	1.0	0.010	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Lead	< 0.050	D008	5.0	0.050	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.00010	D009	0.20	0.00010	mg/l	1	06/23/10	06/23/10	RN	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 0.050	D010	1.0	0.050	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]
Silver	< 0.030	D011	5.0	0.030	mg/l	1	06/22/10	06/24/10	JM	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA770
(2) Instrument QC Batch: MA771
(3) Prep QC Batch: MP2120
(4) Prep QC Batch: MP2121

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

Report of Analysis

Client Sample ID:	296-7A SOSW		
Lab Sample ID:	D14329-18	**Date Sampled:**	06/15/10
Matrix:	SO - Soil	**Date Received:**	06/17/10
		Percent Solids:	91.6
Project:	296-7A		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH [a]	8.97		su	1	06/18/10 08:15	CJ	SW846 7.2
Cyanide Reactivity	< 1.5	1.5	mg/kg	1	06/18/10	JD	SW846 CHAP7
Flashpoint At 620 mm Hg [b]	130		Deg. F	1	06/19/10	JK	SW846 1010, PM CC
Paint Filter Test [c]	< 1.0	1.0	ml/100g	1	06/19/10	JK	SW846 9095
Solids, Percent	91.6		%	1	06/18/10	SWT	SM19 2540B M
Sulfide Reactivity	10.0	10	mg/kg	1	06/18/10	JD	SW846 CHAP 7.3

(a) Non Corrosive
(b) Ignitable
(c) No free liquids.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

D14329

PAGE 1 OF 2

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL. 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #: | Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: KRW Consulting Inc
Street Address: 8000 W. 14th Ave 200
City / State / Zip: Lakewood, Co. 80214
Project Contact: Joe Hess | E-mail:
Phone: 303 239-9011 | Fax #: 303 239 0245
Sampler(s) Name(s): Joe Hess | Phone #:

Project Information

Project Name: 296-7A
Street:
City / State:
Project #: 1006-11
Client Purchase Order #:
Project Manager: Joe Hess

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet): BTEX; TPH-GRO; EC, PH, SAR; TPH-DRO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX	TPH-GRO	EC, PH, SAR	TPH-DRO	LAB USE ONLY
1	296-7A H-17		6-15-10	1525	JH		3									✓	✓	✓	✓	01
2	296-7A H-18		6-15-10	1545			3									✓	✓	✓	✓	02
3	296-7A H-7		6-15-10	1410			3									✓	✓	✓	✓	03
4	296-7A H-9		6-15-10	1415			3									✓	✓	✓	✓	04
5	296-7A H-11		6-15-10	1425			3									✓	✓	✓	✓	05
6	296-7A H-19		6-15-10	1600			3									✓	✓	✓	✓	06
7	296-7A H-20		6-15-10	1605			3									✓	✓	✓	✓	07
8	296-7A H-21		6-15-10	1615			3									✓	✓	✓	✓	08
9	296-7A H-14		6-15-10	1440			3									✓	✓	✓	✓	09
10	296-7A H-22		6-15-10	1620			3									✓	✓	✓	✓	10
11	296-7A H-23		6-15-10	1625			3									✓	✓	✓	✓	11
12	296-7A H-1		6-15-10	1330			3									✓	✓	✓	✓	12

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ UST Analysis 3-5 Days
- ☐ 6 - 9 Day *RUSH*
- ☒ 3 - 5 Day *RUSH*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Level 1
- ☐ Level 2
- ☐ Level 3
- ☐ Level 4

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

- ☒ PDF
- ☐ EDD Format
- ☐ Other

Comments / Special Instructions

EMail: Jhess@KRWConsulting.Com
dKnudson@ " "
gKnell@ " "

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/17/10 900	1 Howard Brown	2 Howard Brown	6/17/10 935	2 [signature]
3		3	4		4
5		5			

Relinquished by Sampler: 1 | Relinquished by: 5

Custody Seal #: ☑ Intact ☐ Not Intact | Preserved where applicable: ☐ N/A | On Ice: ☑ | Cooler Temp. 3.5

HD

4.1 4

D14329: Chain of Custody
Page 1 of 3

CHAIN OF CUSTODY

ACCUTEST Laboratories

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL. 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: D14329

Client / Reporting Information

Company Name: KRW Consulting, Inc.
Street Address: 8000 W. 14th Ave 200
City / State / Zip: Lakewood Co. 80214
Project Contact / E-mail: Joe Hess
Phone #: 303 239 9011 / Fax #: 303-239-0745
Sampler(s) Name(s): Joe Hess
Phone #:

Project Information

Project Name: 296-7A
Street:
City / State:
Project #: 1006-H
Client Purchase Order #:
Project Manager: Joe Hess

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; O - Other Liquid; AIR - Air; L - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX	TPH-GRO	EC, pH, SAR	TPH-DRO	TRPH	Table 910	Reactivity	Corrosivity	Paint Filter	Ignitability	TCLP Metals	TCLP Pesticides	LAB USE ONLY
13	296-7A H-3		6/15/10	1350	JH		3									✓	✓	✓	✓									13
14	296-7A H-4		6/15/10	1355			3									✓	✓	✓	✓									14
15	296-7A GR		6/15/10	0915			5														✓							15
16	296-7A SO		6/15/10	1432			5														✓							16
17	296-7A GRSW		6/15/10	0900			2									✓				✓		✓	✓	✓	✓	✓		17
18	296-7A SOSW		6/15/10	1432			2									✓						✓	✓	✓	✓	✓	✓	18

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] UST Analysis 3-5 Days
- [ ] 6 - 9 Day *RUSH*
- [x] 3 - 5 Day *RUSH*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Level 1
- [ ] Level 2
- [ ] Level 3
- [ ] Level 4
- [x] PDF
- [ ] EDD Format
- [ ] Other

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

Comments / Special Instructions

Email: Jhess@krwconsulting.com
dKnudson@ "
gKnell@ "

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	6/17/10 900	1 Hamid Brown	2 Hamid Brown	6/17/10 935	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[✓] Intact [ ] Not intact	Preserved where applicable: NA

On Ice: [ ]
Cooler Temp.: 3.5

HO

4.1
4

D14329: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D14329 **Client:** KRW **Immediate Client Services Action Required:** No

Date / Time Received: 6/17/2010 9:35:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: 296-7A **Airbill #'s:** hd

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

D14329: Chain of Custody
Page 3 of 3

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB288-MB	GB5275.D	1	06/20/10	DG	n/a	n/a	GGB288

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

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.0	1.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	102%	60-140%

Method Blank Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2065-MB	TA7101.D	10	06/23/10	DG	06/23/10	OP2065	GTA421

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14329-18

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	10	ug/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	115%	60-140%

Method Blank Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB288-MB	TB5275.D	1	06/20/10	DG	n/a	n/a	GTB288

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16, D14329-17

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	10	10	ug/kg	
108-88-3	Toluene	ND	10	10	ug/kg	
95-47-6	o-Xylene	ND	10	10	ug/kg	
	m,p-Xylene	ND	10	10	ug/kg	

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

Blank Spike Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB288-BS	GB5276.D	1	06/20/10	DG	n/a	n/a	GGB288

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

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	11	10.2	93	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	117%	60-140%

Blank Spike Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2065-BS	TA7102.D	10	06/23/10	DG	06/23/10	OP2065	GTA421

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14329-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	272	272	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	128%	60-140%

Blank Spike Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB288-BS	TB5276.D	1	06/20/10	DG	n/a	n/a	GTB288

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16, D14329-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	136	128	94	70-130
100-41-4	Ethylbenzene	228	216	95	70-130
108-88-3	Toluene	1060	1120	106	70-130
95-47-6	o-Xylene	330	326	99	70-130
	m,p-Xylene	750	788	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	106%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14329-1MS	GB5278.D	1	06/20/10	DG	n/a	n/a	GGB288
D14329-1MSD	GB5279.D	1	06/20/10	DG	n/a	n/a	GGB288
D14329-1	GB5277.D	1	06/20/10	DG	n/a	n/a	GGB288

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

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16

CAS No.	Compound	D14329-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		12.1	9.58	79	9.89	82	3	62-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D14329-1	Limits
120-82-1	1,2,4-Trichlorobenzene	116%	117%	92%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14329-1MS	TB5278.D	1	06/20/10	DG	n/a	n/a	GTB288
D14329-1MSD	TB5279.D	1	06/20/10	DG	n/a	n/a	GTB288
D14329-1	TB5277.D	1	06/20/10	DG	n/a	n/a	GTB288

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16, D14329-17

CAS No.	Compound	D14329-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		150	136	91	137	91	1	70-130/30
100-41-4	Ethylbenzene	ND		251	210	84	213	85	1	62-130/30
108-88-3	Toluene	ND		1170	1130	97	1150	99	2	70-130/30
95-47-6	o-Xylene	ND		363	326	90	325	90	0	65-135/30
	m,p-Xylene	ND		826	762	92	781	95	2	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	D14329-1	Limits
120-82-1	1,2,4-Trichlorobenzene	106%	107%	92%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14329-18MS	TA7104.D	10	06/23/10	DG	n/a	n/a	GTA421
D14329-18MSD	TA7105.D	10	06/23/10	DG	n/a	n/a	GTA421
D14329-18	TA7103.D	10	06/23/10	DG	06/23/10	OP2065	GTA421

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14329-18

CAS No.	Compound	D14329-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		272	273	100	275	101	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D14329-18	Limits
120-82-1	1,2,4-Trichlorobenzene	129%	128%	117%	60-140%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2047-MB	FD2151.D	1	06/21/10	CP	06/19/10	OP2047	GFD125

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

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16

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

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	63-130%

Blank Spike Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2047-BS	FD2152.D	1	06/21/10	CP	06/19/10	OP2047	GFD125

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

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	655	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	95%	63-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14329
Account: KRWCCOL KRW Consulting, Inc.
Project: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2047-MS	FD2158.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
OP2047-MSD	FD2159.D	1	06/21/10	CP	06/19/10	OP2047	GFD125
D14329-1	FD2157.D	1	06/21/10	CP	06/19/10	OP2047	GFD125

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

D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16

CAS No.	Compound	D14329-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	16.1		732	726	97	726	97	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D14329-1	Limits
84-15-1	o-Terphenyl	96%	94%	101%	63-130%

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: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 06/18/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	2		
Antimony	3.0	.17	.5		
Arsenic	2.5	.28	.72		
Barium	1.0	.014	.05	0.020	<1.0
Beryllium	1.0	.14	.21		
Boron	5.0	.35	.91		
Cadmium	1.0	.022	.12	0.040	<1.0
Calcium	40	1.7	2.7		
Chromium	1.0	.027	.18	0.040	<1.0
Cobalt	0.50	.048	.058		
Copper	0.50	.16	.38	-0.010	<0.50
Iron	7.0	.77	.91		
Lead	5.0	.13	.24	-0.010	<5.0
Lithium	0.20	.076	.09		
Magnesium	20	.58	.93		
Manganese	0.50	.021	.028		
Molybdenum	1.0	.041	.16		
Nickel	3.0	.038	.075	0.010	<3.0
Phosphorus	10	1.5	3.5		
Potassium	200	38	130		
Selenium	5.0	.28	.54	-0.020	<5.0
Silicon	5.0	1.2	.68		
Silver	3.0	.098	.068	-0.10	<3.0
Sodium	40	23	6.3		
Strontium	5.0	.0091	.02		
Thallium	1.0	.31	.21		
Tin	5.0	1.4	.56		
Titanium	1.0	.0098	.041		
Uranium	5.0	.22	.53		
Vanadium	1.0	.027	.034		
Zinc	3.0	.076	.49	0.30	<3.0

Associated samples MP2108: D14329-15, D14329-16

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 06/18/10

Metal	D14325-1 Original	MS	Spikelot MPICPALL	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	257	409	173	87.7	75-125
Beryllium					
Boron					
Cadmium	0.53	39.0	43.3	88.8	75-125
Calcium					
Chromium	7.1	44.7	43.3	86.8	75-125
Cobalt					
Copper	14.8	57.9	43.3	99.5	75-125
Iron					
Lead	8.3	78.3	86.6	80.8	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	13.8	48.7	43.3	80.6	75-125
Phosphorus					
Potassium					
Selenium	1.7	72.6	86.6	81.8	75-125
Silicon					
Silver	0.0	15.9	17.3	91.8	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	52.4	90.2	43.3	87.3	75-125

Associated samples MP2108: D14329-15, D14329-16

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 06/18/10

Metal	D14325-1 Original	MSD	Spikelot MPICPALL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	257	422	173	95.2	3.1	20
Beryllium						
Boron						
Cadmium	0.53	39.2	43.3	89.3	0.5	20
Calcium						
Chromium	7.1	44.8	43.3	87.0	0.2	20
Cobalt						
Copper	14.8	58.6	43.3	101.1	1.2	20
Iron						
Lead	8.3	77.9	86.6	80.3	0.5	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	13.8	48.3	43.3	79.6	0.8	20
Phosphorus						
Potassium						
Selenium	1.7	72.4	86.6	81.6	0.3	20
Silicon						
Silver	0.0	16.3	17.3	94.1	2.5	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	52.4	87.8	43.3	81.7	2.7	20

Associated samples MP2108: D14329-15, D14329-16

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 06/18/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	201	200	100.5	80-120
Beryllium				
Boron				
Cadmium	49.8	50	99.6	80-120
Calcium				
Chromium	49.9	50	99.8	80-120
Cobalt				
Copper	50.5	50	101.0	80-120
Iron				
Lead	96.2	100	96.2	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	47.6	50	95.2	80-120
Phosphorus				
Potassium				
Selenium	90.1	100	90.1	80-120
Silicon				
Silver	20.5	20	102.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	46.9	50	93.8	80-120

Associated samples MP2108: D14329-15, D14329-16

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/18/10

Metal	D14325-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	2970	3690	24.2*(a)	0-10
Beryllium				
Boron				
Cadmium	6.10	7.50	23.0 (b)	0-10
Calcium				
Chromium	89.6	103	24.7*(a)	0-10
Cobalt				
Copper	171	200	16.7*(a)	0-10
Iron				
Lead	105	116	20.5*(a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	174	209	30.5*(a)	0-10
Phosphorus				
Potassium				
Selenium	28.1	50.0	150.0(b)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	692	805	33.1*(a)	0-10

Associated samples MP2108: D14329-15, D14329-16

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2108
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2109
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/18/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.14	.89		
Antimony	0.20	.001	.045		
Arsenic	0.40	.049	.26	-0.10	<0.40
Barium	1.0	.0035	.17		
Beryllium	0.10	.0075	.014		
Boron	20	.97	2		
Cadmium	0.050	.023	.048		
Calcium	200	1.8	6.1		
Chromium	1.0	.021	.23		
Cobalt	0.10	.0033	.088		
Copper	1.0	.011	.14		
Iron	20	.81	6.1		
Lead	0.25	.0012	.18		
Magnesium	50	.067	1.3		
Manganese	0.50	.007	.089		
Molybdenum	0.50	.0044	.2		
Nickel	1.0	.0029	.074		
Phosphorus	30	1.8	5.6		
Potassium	100	2	9.1		
Selenium	0.20	.075	.14		
Silver	0.050	.0008	.029		
Sodium	250	.8	1.8		
Strontium	10	.004	.047		
Thallium	0.10	.015	.071		
Tin	5.0	.006	.17		
Titanium	1.0	.035	.071		
Uranium	0.25	.00038	.12		
Vanadium	2.0	.052	.99		
Zinc	5.0	.039	.53		

Associated samples MP2109: D14329-15, D14329-16

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: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2109
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/18/10

Metal	D14325-1 Original	MS	Spikelot MPICPALL	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	8.2	85.6	86.6	89.3	60-119
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2109: D14329-15, D14329-16

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: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2109
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/18/10

Metal	D14325-1 Original	MSD	Spikelot MPICPALL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	8.2	87.2	86.6	91.2	1.9	20
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP2109: D14329-15, D14329-16

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: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2109
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/18/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	102	100	102.0	80-120
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2109: D14329-15, D14329-16

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2109
Matrix Type: SOLID

Methods: SW846 6020
Units: ug/l

Prep Date: 06/18/10

Metal	D14325-1 Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	94.1	111	18.1*(a)	0-10
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2109: D14329-15, D14329-16

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: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/22/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.10	.007	.049		
Antimony	0.030	.0017	.013		
Arsenic	0.025	.0028	.0065	-0.0020	<0.025
Barium	1.0	.00014	.0024	0.27	<1.0
Beryllium	0.010	.0014	.0044		
Boron	0.050	.0035	.019		
Cadmium	0.010	.00022	.0012	0.0010	<0.010
Calcium	0.40	.017	.0092		
Chromium	0.010	.00027	.0016	0.0019	<0.010
Cobalt	0.0050	.00048	.0003		
Copper	0.0050	.0016	.0027		
Iron	0.070	.0077	.01		
Lead	0.050	.0013	.0032	0.0085	<0.050
Lithium	0.0020	.00076			
Magnesium	0.20	.0058	.012		
Manganese	0.0050	.00021	.0007		
Molybdenum	0.0050	.00041	.0012		
Nickel	0.030	.00038	.0006		
Phosphorus	0.10	.015	.054		
Potassium	1.0	.38	.54		
Selenium	0.050	.0028	.0072	0.022	<0.050
Silicon	0.050	.012	.02		
Silver	0.030	.00098	.0003	-0.0010	<0.030
Sodium	0.40	.23	.023		
Strontium	0.050	.000091			
Thallium	0.010	.0031	.0021		
Tin	0.050	.014	.0044		
Titanium	0.010	.000098	.0007		
Uranium	0.050	.0022	.0039		
Vanadium	0.010	.00027	.0003		
Zinc	0.030	.00076	.0017		

Associated samples MP2120: D14329-17, D14329-18

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:

Metal

(anr) Analyte not requested

7.3.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/22/10

Metal	D14184-1 Original	MS	Spikelot MPTCLP3	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	1.0	1.0	100.0	75-125
Barium	0.25	17.4	20.0	85.8	75-125
Beryllium					
Boron					
Cadmium	0.0011	0.47	0.50	93.8	75-125
Calcium					
Chromium	0.0044	0.94	1.0	93.6	75-125
Cobalt					
Copper					
Iron					
Lead	0.0036	0.87	1.0	86.6	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	0.029	1.1	1.0	107.1	75-125
Silicon					
Silver	0.0	0.059	0.050	118.0	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2120: D14329-17, D14329-18

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:

Metal

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/22/10

Metal	D14184-1 Original	MSD	Spikelot MPTCLP3	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	1.1	1.0	110.0	9.5	20
Barium	0.25	17.4	20.0	85.8	0.0	20
Beryllium						
Boron						
Cadmium	0.0011	0.48	0.50	95.8	2.1	20
Calcium						
Chromium	0.0044	0.94	1.0	93.6	0.0	20
Cobalt						
Copper						
Iron						
Lead	0.0036	0.88	1.0	87.6	1.1	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	0.029	1.1	1.0	107.1	0.0	20
Silicon						
Silver	0.0	0.060	0.050	120.0	1.7	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP2120: D14329-17, D14329-18

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:

Metal

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/22/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1.2	1.0	120.0	80-120
Barium	2.1	2.0	105.0	80-120
Beryllium				
Boron				
Cadmium	0.55	0.50	110.0	80-120
Calcium				
Chromium	0.54	0.50	108.0	80-120
Cobalt				
Copper				
Iron				
Lead	1.1	1.0	110.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	1.2	1.0	120.0	80-120
Silicon				
Silver	0.21	0.20	105.0	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2120: D14329-17, D14329-18

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2120
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:

Metal

(anr) Analyte not requested

7.3.3

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2121
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/23/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00010	.000011	.000011	0.000070	<0.00010

Associated samples MP2121: D14329-17, D14329-18

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

7.4.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2121
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/23/10

Metal	D14184-1 Original MS		Spikelot HGTCLP1	% Rec	QC Limits
Mercury	0.000057	0.0030	0.0040	73.6N(a)	75-125

Associated samples MP2121: D14329-17, D14329-18

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2121
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/23/10

Metal	D14184-1 Original	MSD	Spikelot HGTCLP1	% Rec	MSD RPD	QC Limit
Mercury	0.000057	0.0031	0.0040	76.1	3.3	20

Associated samples MP2121: D14329-17, D14329-18

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

7.4.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2121
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/23/10

Metal	BSP Result	Spikelot HGWSR1	% Rec	QC Limits
Mercury	0.0032	0.0031	102.4	80-120

Associated samples MP2121: D14329-17, D14329-18

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	35	250		
Antimony	150	8.5	65		
Arsenic	130	14	33		
Barium	50	.7	12		
Beryllium	50	7	22		
Boron	250	18	93		
Cadmium	50	1.1	6		
Calcium	2000	85	46	-8.5	<2000
Chromium	50	1.4	8		
Cobalt	25	2.4	1.5		
Copper	25	8	14		
Iron	350	39	50		
Lead	250	6.5	16		
Lithium	10	3.8	8		
Magnesium	1000	29	62	40.5	<1000
Manganese	25	1.1	3.5		
Molybdenum	50	2.1	6		
Nickel	150	1.9	3		
Phosphorus	500	75	270		
Potassium	5000	1900	2700		
Selenium	250	14	36		
Silicon	250	60	100		
Silver	150	4.9	1.5		
Sodium	2000	1200	110	-770	<2000
Strontium	25	.46	17		
Thallium	50	16	11		
Tin	250	70	22		
Titanium	50	.49	3.5		
Uranium	250	11	20		
Vanadium	50	1.4	1.5		
Zinc	150	3.8	8.5		

Associated samples MP2147: D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	D14329-7 Original	MS	Spikelot MPICPALL	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	74900	206000	125000	104.9	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	15500	139000	125000	98.8	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	17800	143000	125000	100.2	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2147: D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	D14329-7 Original	MSD	Spikelot MPICPALL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	74900	208000	125000	106.5	1.0	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	15500	142000	125000	101.2	2.1	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	17800	146000	125000	102.6	2.1	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP2147: D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	131000	125000	104.8	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	124000	125000	99.2	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	126000	125000	100.8	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2147: D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9, D14329-10

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2147
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	35	250		
Antimony	150	8.5	65		
Arsenic	130	14	33		
Barium	50	.7	12		
Beryllium	50	7	22		
Boron	250	18	93		
Cadmium	50	1.1	6		
Calcium	2000	85	46	-30	<2000
Chromium	50	1.4	8		
Cobalt	25	2.4	1.5		
Copper	25	8	14		
Iron	350	39	50		
Lead	250	6.5	16		
Lithium	10	3.8	8		
Magnesium	1000	29	62	44.0	<1000
Manganese	25	1.1	3.5		
Molybdenum	50	2.1	6		
Nickel	150	1.9	3		
Phosphorus	500	75	270		
Potassium	5000	1900	2700		
Selenium	250	14	36		
Silicon	250	60	100		
Silver	150	4.9	1.5		
Sodium	2000	1200	110	172	<2000
Strontium	25	.46	17		
Thallium	50	16	11		
Tin	250	70	22		
Titanium	50	.49	3.5		
Uranium	250	11	20		
Vanadium	50	1.4	1.5		
Zinc	150	3.8	8.5		

Associated samples MP2151: D14329-11, D14329-12, D14329-13, D14329-14, D14329-15A, D14329-16A

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	D14311-1A Original	MS	Spikelot MPICPALL	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	14500	155000	125000	112.4	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	68.5	131000	125000	104.7	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	2250000	2350000	125000	80.0	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2151: D14329-11, D14329-12, D14329-13, D14329-14, D14329-15A, D14329-16A

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/23/10

Metal	D14311-1A Original	MSD	Spikelot MPICPALL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	14500	154000	125000	111.6	0.6	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	68.5	131000	125000	104.7	0.0	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	2250000	2340000	125000	72.0 (a)	0.4	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP2151: D14329-11, D14329-12, D14329-13, D14329-14, D14329-15A, D14329-16A

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	136000	125000	108.8	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	131000	125000	104.8	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	135000	125000	108.0	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2151: D14329-11, D14329-12, D14329-13, D14329-14, D14329-15A, D14329-16A

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2151
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2187
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 06/28/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.10	.0011	.0012	-0.0021	<0.10

Associated samples MP2187: D14329-15, D14329-16

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

7.7.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2187
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 06/28/10

Metal	D14375-1 Original	MS	Spikelot HGWSR1	% Rec	QC Limits
Mercury	0.024	0.50	0.477	99.8	85-115

Associated samples MP2187: D14329-15, D14329-16

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

7.7.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2187 | Methods: SW846 7471A
Matrix Type: SOLID | Units: mg/kg

Prep Date: 06/28/10

Metal	D14375-1 Original	MSD	Spikelot HGWSR1	% Rec	MSD RPD	QC Limit
Mercury	0.024	0.50	0.477	99.8	0.0	20

Associated samples MP2187: D14329-15, D14329-16

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

7.7.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

QC Batch ID: MP2187
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 06/28/10

Metal	BSP Result	Spikelot HGWSR1	% Rec	QC Limits
Mercury	0.41	0.4	102.5	80-120

Associated samples MP2187: D14329-15, D14329-16

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

7.7.3

7

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: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Corrosivity as pH	GN4920			su	8.00	8.03	100.4	99.3-100.7%
Cyanide Reactivity	GP2166/GN4917	1.5	0.0	mg/kg	13.6	0.0	0.1	0-100%
HEM Petroleum Hydrocarbons	GP2207/GN5000	50	0.0	mg/kg	333.3	293	88.0	64-132%
Specific Conductivity	GP2206/GN5005			umhos/cm	xxxxxxxx	10200	102.0	90-110%
Sulfide Reactivity	GP2165/GN4916	10	0.0	mg/kg	65	50.0	76.9	50-150%
pH	GN4905			su	8.00	7.99	99.9	99.3-100.7%
pH	GN4919			su	8.00	8.03	100.4	99.3-100.7%

Associated Samples:
Batch GN4905: D14329-1, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6
Batch GN4919: D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16, D14329-7, D14329-8, D14329-9
Batch GN4920: D14329-17, D14329-18
Batch GP2165: D14329-17, D14329-18
Batch GP2166: D14329-17, D14329-18
Batch GP2206: D14329-1, D14329-10, D14329-11, D14329-12, D14329-13, D14329-14, D14329-15, D14329-16, D14329-2, D14329-3, D14329-4, D14329-5, D14329-6, D14329-7, D14329-8, D14329-9
Batch GP2207: D14329-17
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
HEM Petroleum Hydrocarbons	GP2207/GN5000	D14329-17	mg/kg	3810	333.3	3850	11.4(a)	64-132%

Associated Samples:
Batch GP2207: D14329-17
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14329
Account: KRWCCOL - KRW Consulting, Inc.
Project: 296-7A

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
HEM Petroleum Hydrocarbons	GP2207/GN5000	D14329-17	mg/kg	3810	333.3	3950	2.6(a)	20%

Associated Samples:
Batch GP2207: D14329-17
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Misc. Forms

Custody Documents and Other Forms

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST

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

Accutest Job #:	D14329
Accutest Quote #:	
AMS P.O. #:	
Project No.:	

Client Information			Subcontract Laboratory Information		
Name: Accutest Mountain States (AMS)			Name: Accutest - New England		
Address: 4036 Youngfield St.			Address: 495 Technology Center West, BLDG O		
City: Wheat Ridge,	State: CO	Zip: 80033	City: Marlborough	State: MA	Zip: 01752
Send Report to: Tiffany Pham			Contact: Sample Management		
Any questions contact: Amanda Kissell					
Phone/Fax #: (303) 425-6021; (303)425-6854			Phone: (508) 481-6200		

Field ID / Point of Collection	Collection Date	Collection Time		Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	Xcra	EH	8270simpah			Comments
D14329 -15	6/15/10	9:15 AM		Soil	1						X	X	X			
-16	6/15/10	2:35 PM		Soil	1						X	X	X			
-																
-																
-																
-																
-																
-																
-																
-																

Turnaround Information

- [X] 3 - 5 Business Day Rush
- [ ] Other _____ (Days)

Approved By: _____

10 Day Turnaround Hardcopy, RUSH is FAX Data unless previously approved.

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Commercial "BN"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] PDF
- [ ] Compact Disk Deliverable
- [ ] Electronic Delivery: _____
- [ ] State Forms
- [ ] Other (Specify) _____

Comments / Remarks

Please use Colorado regulations and RLs.

Loc 1/2

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date & Time:	Received By:	Date & Time:
1	6/17/10	1	1
2	6/18/10 10:30	2	2
3		3	3

For Subcontract Laborartory Use Only

Seal #: _____ Headspace: Yes [ ] No [ ] NA [ ]

Preserved where applicable: [ ]

Temperature °C 1.6 On Ice [ ]

9.1

9

D14329: Chain of Custody
Page 1 of 2
Accutest Labs of New England, Inc.

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D14329 **Client:** AMS **Immediate Client Services Action Required:** No

Date / Time Received: 6/18/2010 10:30:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: AMS **Airbill #'s:**

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☐	
2. Trip Blank listed on COC:	☐ ☐	
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☐ ☐	☑

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume rec'd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

D14329: Chain of Custody
Page 2 of 2

GC/MS Semi-volatiles

QC Data Summaries

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

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

Method Blank Summary

Job Number: D14329
Account: ALMS Accutest Mountain States
Project: KRWCCOL: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21816-MB	F47875.D	1	07/09/10	AA	06/29/10	OP21816	MSF2261

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

D14329-15, D14329-16

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	25	0.58	ug/kg	
208-96-8	Acenaphthylene	ND	25	0.92	ug/kg	
120-12-7	Anthracene	ND	25	0.81	ug/kg	
56-55-3	Benzo(a)anthracene	ND	25	0.62	ug/kg	
50-32-8	Benzo(a)pyrene	ND	25	0.72	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	25	0.61	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	25	1.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	25	0.95	ug/kg	
218-01-9	Chrysene	ND	25	0.77	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	25	1.4	ug/kg	
206-44-0	Fluoranthene	ND	25	0.79	ug/kg	
86-73-7	Fluorene	ND	25	0.44	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	25	1.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	25	1.1	ug/kg	
91-20-3	Naphthalene	ND	25	1.1	ug/kg	
85-01-8	Phenanthrene	ND	25	0.98	ug/kg	
129-00-0	Pyrene	ND	25	1.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	93%	30-130%
321-60-8	2-Fluorobiphenyl	92%	30-130%
1718-51-0	Terphenyl-d14	96%	30-130%

Blank Spike Summary

Job Number: D14329
Account: ALMS Accutest Mountain States
Project: KRWCCOL: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21816-BS	F47876.D	1	07/09/10	AA	06/29/10	OP21816	MSF2261

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

D14329-15, D14329-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2470	2130	86	40-140
208-96-8	Acenaphthylene	2470	1860	75	40-140
120-12-7	Anthracene	2470	2460	99	40-140
56-55-3	Benzo(a)anthracene	2470	2630	106	40-140
50-32-8	Benzo(a)pyrene	2470	2480	100	40-140
205-99-2	Benzo(b)fluoranthene	2470	2320	94	40-140
191-24-2	Benzo(g,h,i)perylene	2470	3230	131	40-140
207-08-9	Benzo(k)fluoranthene	2470	2310	93	40-140
218-01-9	Chrysene	2470	2230	90	40-140
53-70-3	Dibenzo(a,h)anthracene	2470	3090	125	40-140
206-44-0	Fluoranthene	2470	2460	99	40-140
86-73-7	Fluorene	2470	2270	92	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2470	2820	114	40-140
91-57-6	2-Methylnaphthalene	2470	2380	96	40-140
91-20-3	Naphthalene	2470	2100	85	40-140
85-01-8	Phenanthrene	2470	2060	83	40-140
129-00-0	Pyrene	2470	2480	100	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	98%	30-130%
321-60-8	2-Fluorobiphenyl	96%	30-130%
1718-51-0	Terphenyl-d14	100%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14329
Account: ALMS Accutest Mountain States
Project: KRWCCOL: 296-7A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21816-MS	F47896.D	1	07/10/10	AA	06/29/10	OP21816	MSF2262
OP21816-MSD	F47897.D	1	07/10/10	AA	06/29/10	OP21816	MSF2262
M92639-22	F47877.D	1	07/09/10	AA	06/29/10	OP21816	MSF2261

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

D14329-15, D14329-16

CAS No.	Compound	M92639-22 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		2480	2030	82	1750	71	15	40-140/30
208-96-8	Acenaphthylene	ND		2480	1810	73	1540	62	16	40-140/30
120-12-7	Anthracene	ND		2480	2420	97	2310	93	5	40-140/30
56-55-3	Benzo(a)anthracene	ND		2480	2640	106	2560	103	3	40-140/30
50-32-8	Benzo(a)pyrene	ND		2480	2580	104	2540	103	2	40-140/30
205-99-2	Benzo(b)fluoranthene	ND		2480	2430	98	2410	97	1	40-140/30
191-24-2	Benzo(g,h,i)perylene	ND		2480	3170	128	3110	126	2	40-140/30
207-08-9	Benzo(k)fluoranthene	ND		2480	2560	103	2550	103	0	40-140/30
218-01-9	Chrysene	ND		2480	2260	91	2200	89	3	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		2480	3060	123	2990	121	2	40-140/30
206-44-0	Fluoranthene	ND		2480	2470	99	2370	96	4	40-140/30
86-73-7	Fluorene	ND		2480	2230	90	2080	84	7	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2480	2770	112	3140	127	13	40-140/30
91-57-6	2-Methylnaphthalene	ND		2480	2380	96	1640	66	37* [a]	40-140/30
91-20-3	Naphthalene	ND		2480	2020	81	972	39* [b]	70* [a]	40-140/30
85-01-8	Phenanthrene	ND		2480	2000	81	1930	78	4	40-140/30
129-00-0	Pyrene	ND		2480	2490	100	2410	97	3	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	M92639-22	Limits
4165-60-0	Nitrobenzene-d5	92%	40%	101%	30-130%
321-60-8	2-Fluorobiphenyl	95%	77%	103%	30-130%
1718-51-0	Terphenyl-d14	99%	98%	109%	30-130%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

General Chemistry

QC Data Summaries

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14329
Account: ALMS - Accutest Mountain States
Project: KRWCCOL: 296-7A

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP11738/GN32192	2.0	0.0	mg/kg	40	39.9	99.8	80-120%
Chromium, Hexavalent	GP11738/GN32192			mg/kg	650	662	101.8	80-120%

Associated Samples:
Batch GP11738: D14329-15, D14329-16
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14329
Account: ALMS - Accutest Mountain States
Project: KRWCCOL: 296-7A

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP11738/GN32192	D14038-4	mg/kg	3.6	3.5	2.8	0-20%
Redox Potential Vs H2	GN32194	D14177-1	mv	286	292	2.1	0-20%

Associated Samples:
Batch GN32194: D14329-15, D14329-16
Batch GP11738: D14329-15, D14329-16
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14329
Account: ALMS - Accutest Mountain States
Project: KRWCCOL: 296-7A

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP11738/GN32192	D14038-4	mg/kg	3.6	87.6	78.5	85.5	75-125%
Chromium, Hexavalent	GP11738/GN32192	D14038-4	mg/kg	3.6	2190	2030	92.6	75-125%

Associated Samples:
Batch GP11738: D14329-15, D14329-16
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits