

State of Colorado
Oil and Gas Conservation Commission

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



#7686

FOR OGCC USE ONLY

RECEIVED
3/26/2013

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

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

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

OGCC Operator Number: 10079

Name of Operator: Antero Resources Piceance LLC

Address: 17th St. STE 300 ATTN: Cole Kilstrom

City: Denver State: CO Zip: 80202

Contact Name and Telephone:

Cole Kilstrom

No: (303) 357-6709

Fax: (303) 357-7315

API Number: N/A

County: Garfield

Facility Name: Gentry C Pad Pit

Facility Number: 295546

Well Name: N/A

Well Number: N/A

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SESE 17 6S 92W 6th Latitude: 39.520737 Longitude: -107.682761

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Pit used for drill cuttings

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

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Onley Loam (6-12% slopes)

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 225 ft to surface water, 40 ft to ground water, 265 ft to water wells

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

Impacted Media (check):

☒ Soils
☐ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

None

How Determined:

February 22, 2013 compliance sampling
demonstrated results within Table 910-1 standards

REMEDIALATION WORKPLAN

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

See Attached

Describe how source is to be removed:

See Attached

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

See Attached



Tracking Number: _____
Name of Operator: Antero
OGCC Operator No: _____
Received Date: _____
Well Name & No: Location ID# 295546
Facility Name & No: Pit Facility # 295546

OGCC Employee: _____

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

See Attached

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

See Attached

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

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

See Attached

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

See Attached

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____	Date Site Investigation Completed: _____	Date Remediation Plan Submitted: _____
Remediation Start Date: _____	Anticipated Completion Date: _____	Actual Completion Date: _____

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

Print Name: Cole Kilstron

Signed: Cole Kilstron

Title: ENV Specialist

Date: 3/26/2013

OGCC Approved: _____

Title: FOR Alex Fischer

Date: 03/28/2013

Supervisor
Western Region

Describe initial action taken:

The Gentry C Pad pit was used to store and treat/solidify drill cuttings generated from well drilling at this pad location before the cuttings could be disposed at a landfill. Drill cuttings generated from each well were stored in this poly lined pit until they solidified to allow for transportation and disposal. The pit was approximately 15 ft. x 30 ft. in area and 5 ft. in depth.

This pit was used to treat the drill cuttings from the below listed wells at this location:

1. Gentry C 5: API: 05-045-15298
 - a. Drill dates: 4/26/2008 – 5/7/2008
2. Gentry C 8 API: 05-045-15272
 - a. Drill Dates: 5/7/2008-5/19/2008
3. Gentry C 10 API: 05-045-15297
 - a. 5/20/2008-5/29/2008
4. Gentry C 12 API: 05-045-15269
 - a. 5/30/2008 – 6/10/2008
5. Gentry C 9 API: 05-045-15271
 - a. 11/2/2008 – 1/3/2009

In calendar year 2008 and early 2009 drill cuttings generated from this site were sent to Garfield County Landfill. Once the drill cuttings generated from the last well on this pad (Gentry C 9) were disposed of at the landfill, the pit was closed in early 2009.

Describe how source is to be removed:

At the time of pit closure Antero disposed of the remaining drill cuttings and the pit liner at the Garfield County Landfill. A summary of truck tickets/waste disposal for the disposal of drill cuttings and the liner are attached as Attachment 2. Waste disposal documents can be made available upon request.

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

Antero does not believe that any further remediation of existing impacts is necessary at this time because confirmation sampling demonstrated that the site is in compliance with Table 910-1 standards.

If groundwater has been impacted, describe proposed monitoring plan:

Groundwater has not been impacted by the operation and closure of the Gentry C Pad pit.

Describe remediation plan:

Following final disposal of the remaining drill cuttings and pit liner, the pit was backfilled with clean dirt. Confirmation samples were taken on February 22, 2013 at two feet (backfill material) and six feet (below the pit) in depth.

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

The sample collection map and analytical data are attached with this submittal as Attachment 1.

Is further site investigation required?

The confirmation samples demonstrate that the location is in compliance with Table 910-1 standards, thus Antero does not believe that further site investigation is required.

Final disposition of E&P waste:

Antero disposed of the drill cuttings stored in the pit, and the pit liner following pit closure during the calendar year 2008 and in early 2009. As noted above, a summary of waste disposal for this pit is attached hereto.

ATTACHMENT 1



06-Mar-2013

Mark Mumby
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Antero Gentry C Pit 2/22/13**

Work Order: **1302826**

Dear Mark,

ALS Environmental received 5 samples on 27-Feb-2013 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 33.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Work Order: 1302826

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1302826-01	2 Feet	Soil		2/22/2013 11:15	2/27/2013 10:00	<input type="checkbox"/>
1302826-02	6 Feet	Soil		2/22/2013 11:25	2/27/2013 10:00	<input type="checkbox"/>
1302826-03	BKGD 1	Soil		2/22/2013 11:40	2/27/2013 10:00	<input type="checkbox"/>
1302826-04	BKGD 2	Soil		2/22/2013 11:45	2/27/2013 10:00	<input type="checkbox"/>
1302826-05	BKGD 3	Soil		2/22/2013 11:50	2/27/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Antero Gentery C Pit 2/22/13
Work Order: 1302826

Case Narrative

Batch 46647 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
WorkOrder: 1302826

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mhos/cm @25°	Microhms-Centimeter at 25 Degrees Fahrenheit
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: 2 Feet
Collection Date: 2/22/2013 11:15 AM

Work Order: 1302826
Lab ID: 1302826-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	67		SW8015M		Prep Date: 3/4/2013	Analyst: JD
<i>Surr: 4-Terphenyl-d14</i>	<i>81.4</i>		<i>39-115</i>	<i>%REC</i>	1	3/5/2013 12:20 PM
					1	3/5/2013 12:20 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 3/4/2013	Analyst: CW
<i>Surr: Toluene-d8</i>	<i>109</i>		<i>50-150</i>	<i>%REC</i>	50	2/28/2013 06:52 PM
					50	2/28/2013 06:52 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 3/4/2013	Analyst: LR
			<i>0.019</i>	<i>mg/Kg-dry</i>	1	3/4/2013 02:44 PM
METALS BY ICP-MS						
Arsenic	1.6		SW6020A		Prep Date: 3/1/2013	Analyst: CES
Barium	1,900		<i>0.83</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Cadmium	ND		<i>8.3</i>	<i>mg/Kg-dry</i>	20	3/1/2013 06:13 PM
Chromium	6.1		<i>0.33</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Copper	6.8		<i>0.83</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Lead	6.1		<i>0.83</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Nickel	7.1		<i>0.83</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Selenium	ND		<i>0.83</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Silver	ND		<i>0.83</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
Zinc	25		<i>1.7</i>	<i>mg/Kg-dry</i>	2	3/1/2013 06:19 PM
SOLUBLE CATIONS FOR SAR						
Calcium	77		SW6020A		Prep Date: 2/28/2013	Analyst: CES
Magnesium	17		<i>5.8</i>	<i>mg/L-dry</i>	10	3/5/2013 02:59 PM
Sodium	420		<i>2.3</i>	<i>mg/L-dry</i>	10	3/5/2013 02:59 PM
			<i>2.3</i>	<i>mg/L-dry</i>	10	3/5/2013 02:59 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	10		USDA H60 METHO		Prep Date: 2/28/2013	Analyst: CES
			<i>0.010</i>	<i>none</i>	1	3/5/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 3/4/2013	Analyst: HL
Acenaphthylene	ND		<i>17</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Anthracene	ND		<i>34</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Benzo(a)anthracene	ND		<i>17</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Benzo(a)pyrene	ND		<i>19</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Benzo(b)fluoranthene	ND		<i>19</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Benzo(g,h,i)perylene	ND		<i>21</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Benzo(k)fluoranthene	ND		<i>32</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Chrysene	ND		<i>21</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Dibenzo(a,h)anthracene	ND		<i>17</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
Fluoranthene	ND		<i>21</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM
			<i>17</i>	<i>µg/Kg-dry</i>	1	3/4/2013 09:32 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: 2 Feet
Collection Date: 2/22/2013 11:15 AM

Work Order: 1302826
Lab ID: 1302826-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	3/4/2013 09:32 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	3/4/2013 09:32 PM
Naphthalene	ND		17	µg/Kg-dry	1	3/4/2013 09:32 PM
Pyrene	ND		17	µg/Kg-dry	1	3/4/2013 09:32 PM
Surr: 2-Fluorobiphenyl	74.0		12-100	%REC	1	3/4/2013 09:32 PM
Surr: 4-Terphenyl-d14	102		25-137	%REC	1	3/4/2013 09:32 PM
Surr: Nitrobenzene-d5	71.2		37-107	%REC	1	3/4/2013 09:32 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 2/27/2013	Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	2/28/2013 06:48 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	2/28/2013 06:48 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	2/28/2013 06:48 PM
o-Xylene	ND		35	µg/Kg-dry	1	2/28/2013 06:48 PM
Toluene	ND		35	µg/Kg-dry	1	2/28/2013 06:48 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	2/28/2013 06:48 PM
Surr: 1,2-Dichloroethane-d4	95.6		70-130	%REC	1	2/28/2013 06:48 PM
Surr: 4-Bromofluorobenzene	92.2		70-130	%REC	1	2/28/2013 06:48 PM
Surr: Dibromofluoromethane	95.6		70-130	%REC	1	2/28/2013 06:48 PM
Surr: Toluene-d8	99.0		70-130	%REC	1	2/28/2013 06:48 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 2/28/2013	Analyst: JB
Electrical Conductivity @ Saturation	2.2		0.025	mmhos/cm @25	5	3/4/2013 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	6.1		0.58	mg/Kg-dry	1	3/5/2013 07:58 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 2/28/2013	Analyst: JB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	3/1/2013 11:30 AM
MOISTURE			A2540 G			Analyst: DC
Moisture	14		0.050	% of sample	1	2/27/2013 03:30 PM
PH			SW9045D			Analyst: KF
pH	8.88			s.u.	1	2/27/2013 09:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: 6 Feet
Collection Date: 2/22/2013 11:25 AM

Work Order: 1302826
Lab ID: 1302826-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	18		SW8015M		Prep Date: 3/4/2013	Analyst: JD
<i>Surr: 4-Terphenyl-d14</i>	66.4		4.8	mg/Kg-dry	1	3/5/2013 12:45 PM
			39-115	%REC	1	3/5/2013 12:45 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: CW
<i>Surr: Toluene-d8</i>	112		2.9	mg/Kg-dry	50	2/28/2013 07:17 PM
			50-150	%REC	50	2/28/2013 07:17 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 3/4/2013	Analyst: LR
			0.019	mg/Kg-dry	1	3/4/2013 02:53 PM
METALS BY ICP-MS						
Arsenic	3.5		SW6020A		Prep Date: 3/1/2013	Analyst: CES
Barium	460		0.95	mg/Kg-dry	2	3/1/2013 08:08 PM
Cadmium	ND		9.5	mg/Kg-dry	20	3/1/2013 06:25 PM
Chromium	15		0.38	mg/Kg-dry	2	3/1/2013 08:08 PM
Copper	15		0.95	mg/Kg-dry	2	3/1/2013 08:08 PM
Lead	14		0.95	mg/Kg-dry	2	3/1/2013 08:08 PM
Nickel	15		0.95	mg/Kg-dry	2	3/1/2013 08:08 PM
Selenium	ND		0.95	mg/Kg-dry	2	3/1/2013 08:08 PM
Silver	ND		0.95	mg/Kg-dry	2	3/1/2013 08:08 PM
Zinc	56		1.9	mg/Kg-dry	2	3/1/2013 08:08 PM
SOLUBLE CATIONS FOR SAR						
Calcium	600		SW6020A		Prep Date: 2/28/2013	Analyst: CES
Magnesium	240		5.8	mg/L-dry	10	3/5/2013 03:05 PM
Sodium	360		2.3	mg/L-dry	10	3/5/2013 03:05 PM
			2.3	mg/L-dry	10	3/5/2013 03:05 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	2.9		USDA H60 METHO		Prep Date: 2/28/2013	Analyst: CES
			0.010	none	1	3/5/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 3/4/2013	Analyst: HL
Acenaphthylene	ND		17	µg/Kg-dry	1	3/4/2013 10:04 PM
Anthracene	ND		35	µg/Kg-dry	1	3/4/2013 10:04 PM
Benzo(a)anthracene	ND		17	µg/Kg-dry	1	3/4/2013 10:04 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	3/4/2013 10:04 PM
Benzo(b)fluoranthene	ND		20	µg/Kg-dry	1	3/4/2013 10:04 PM
Benzo(g,h,i)perylene	ND		21	µg/Kg-dry	1	3/4/2013 10:04 PM
Benzo(k)fluoranthene	ND		32	µg/Kg-dry	1	3/4/2013 10:04 PM
Chrysene	ND		21	µg/Kg-dry	1	3/4/2013 10:04 PM
Dibenzo(a,h)anthracene	ND		17	µg/Kg-dry	1	3/4/2013 10:04 PM
Fluoranthene	ND		21	µg/Kg-dry	1	3/4/2013 10:04 PM
			17	µg/Kg-dry	1	3/4/2013 10:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: 6 Feet
Collection Date: 2/22/2013 11:25 AM

Work Order: 1302826
Lab ID: 1302826-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	3/4/2013 10:04 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	3/4/2013 10:04 PM
Naphthalene	ND		17	µg/Kg-dry	1	3/4/2013 10:04 PM
Pyrene	ND		17	µg/Kg-dry	1	3/4/2013 10:04 PM
Surr: 2-Fluorobiphenyl	74.0		12-100	%REC	1	3/4/2013 10:04 PM
Surr: 4-Terphenyl-d14	106		25-137	%REC	1	3/4/2013 10:04 PM
Surr: Nitrobenzene-d5	72.8		37-107	%REC	1	3/4/2013 10:04 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 2/27/2013	Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	2/28/2013 03:23 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	2/28/2013 03:23 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	2/28/2013 03:23 PM
o-Xylene	ND		35	µg/Kg-dry	1	2/28/2013 03:23 PM
Toluene	ND		35	µg/Kg-dry	1	2/28/2013 03:23 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	2/28/2013 03:23 PM
Surr: 1,2-Dichloroethane-d4	99.4		70-130	%REC	1	2/28/2013 03:23 PM
Surr: 4-Bromofluorobenzene	95.7		70-130	%REC	1	2/28/2013 03:23 PM
Surr: Dibromofluoromethane	99.8		70-130	%REC	1	2/28/2013 03:23 PM
Surr: Toluene-d8	96.9		70-130	%REC	1	2/28/2013 03:23 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 2/28/2013	Analyst: JB
Electrical Conductivity @ Saturation	6.5		0.025	mmhos/cm @25	5	3/4/2013 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	15		0.58	mg/Kg-dry	1	3/5/2013 07:58 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 2/28/2013	Analyst: JB
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	3/1/2013 11:30 AM
MOISTURE			A2540 G			Analyst: DC
Moisture	14		0.050	% of sample	1	2/27/2013 03:30 PM
PH			SW9045D			Analyst: KF
pH	7.65			s.u.	1	2/27/2013 09:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: BKGD 1
Collection Date: 2/22/2013 11:40 AM

Work Order: 1302826
Lab ID: 1302826-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 3/1/2013	Analyst: CES
Arsenic	3.4		1.0	mg/Kg-dry	2	3/1/2013 08:14 PM
MOISTURE			A2540 G			Analyst: YM
Moisture	30		0.050	% of sample	1	2/28/2013 12:32 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: BKGD 2
Collection Date: 2/22/2013 11:45 AM

Work Order: 1302826
Lab ID: 1302826-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 3/1/2013	Analyst: CES
Arsenic	3.0		1.0	mg/Kg-dry	2	3/1/2013 08:20 PM
MOISTURE			A2540 G			Analyst: YM
Moisture	23		0.050	% of sample	1	2/28/2013 12:32 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Mar-13

Client: HRL Compliance Solutions
Project: Antero Gentry C Pit 2/22/13
Sample ID: BKGD 3
Collection Date: 2/22/2013 11:50 AM

Work Order: 1302826
Lab ID: 1302826-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 3/1/2013	Analyst: CES
Arsenic	2.2		0.97	mg/Kg-dry	2	3/1/2013 08:26 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 2/28/2013	Analyst: CES
Calcium	250		6.0	mg/L-dry	10	3/5/2013 03:12 PM
Magnesium	76		2.4	mg/L-dry	10	3/5/2013 03:12 PM
Sodium	14		2.4	mg/L-dry	10	3/5/2013 03:12 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 2/28/2013	Analyst: CES
Sodium Adsorption Ratio	0.18		0.010	none	1	3/5/2013
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 2/28/2013	Analyst: JB
Electrical Conductivity @ Saturation	1.6		0.025	mmhos/cm @25	5	3/4/2013 04:00 PM
MOISTURE			A2540 G			Analyst: DC
Moisture	16		0.050	% of sample	1	3/1/2013 01:50 PM
PH			SW9045D			Analyst: KF
pH	8.18			s.u.	1	2/27/2013 09:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: HRL Compliance Solutions

Work Order: 1302826

Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: 46670

Instrument ID GC8

Method: SW8015M

MBLK	Sample ID: DBLKS1-46670-46670					Units: mg/Kg		Analysis Date: 3/4/2013 05:59 PM		
Client ID:	Run ID: GC8_130304A				SeqNo: 2228658		Prep Date: 3/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.005	0	1.667	0	60.3	39-115		0		

LCS	Sample ID: DLCSS1-46670-46670					Units: mg/Kg		Analysis Date: 3/4/2013 06:25 PM		
Client ID:	Run ID: GC8_130304A				SeqNo: 2228659		Prep Date: 3/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	140.9	4.2	166.7	0	84.5	49-124		0		
Surr: 4-Terphenyl-d14	1.147	0	1.667	0	68.8	39-115		0		

MS	Sample ID: 1302845-08A MS					Units: mg/Kg		Analysis Date: 3/4/2013 06:50 PM		
Client ID:	Run ID: GC8_130304A				SeqNo: 2228660		Prep Date: 3/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	541.8	12	489	195.8	70.7	49-130		0		
Surr: 4-Terphenyl-d14	3.432	0	4.89	0	70.2	39-115		0		

MSD	Sample ID: 1302845-08A MSD					Units: mg/Kg		Analysis Date: 3/4/2013 07:15 PM		
Client ID:	Run ID: GC8_130304A				SeqNo: 2228661		Prep Date: 3/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	571.8	12	481.8	195.8	78	49-130	541.8	5.38	30	
Surr: 4-Terphenyl-d14	3.593	0	4.818	0	74.6	39-115	3.432	4.58	30	

The following samples were analyzed in this batch:

1302826-01B

1302826-02B

Client: HRL Compliance Solutions
 Work Order: 1302826
 Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **R116785** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-130228-R116785				Units: µg/L		Analysis Date: 2/28/2013 01:57 PM		
Client ID:		Run ID: GC10_130228A				SeqNo: 2225714		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	117.6	0	100	0	118	70-130	0			

LCS		Sample ID: GLCS1-130228-R116785				Units: µg/L		Analysis Date: 2/28/2013 01:32 PM		
Client ID:		Run ID: GC10_130228A				SeqNo: 2225713		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8446	200	10000	0	84.5	70-130	0			
Surr: Toluene-d8	118.6	0	100	0	119	70-130	0			

MS		Sample ID: 1302862-01A MS				Units: µg/L		Analysis Date: 2/28/2013 10:09 PM		
Client ID:		Run ID: GC10_130228A				SeqNo: 2225971		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8836	200	10000	0	88.4	70-130	0			
Surr: Toluene-d8	118.1	0	100	0	118	70-130	0			

MSD		Sample ID: 1302862-01A MSD				Units: µg/L		Analysis Date: 2/28/2013 10:36 PM		
Client ID:		Run ID: GC10_130228A				SeqNo: 2225972		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8796	200	10000	0	88	70-130	8836	0.451	30	
Surr: Toluene-d8	111.4	0	100	0	111	70-130	118.1	5.9	30	

The following samples were analyzed in this batch:

1302826-01A	1302826-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46662** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-46662-46662				Units: mg/Kg		Analysis Date: 3/4/2013 02:01 PM		
Client ID:		Run ID: HG1_130304A				SeqNo: 2227705		Prep Date: 3/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-46662-46662				Units: mg/Kg		Analysis Date: 3/4/2013 02:03 PM		
Client ID:		Run ID: HG1_130304A				SeqNo: 2227706		Prep Date: 3/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.173 0.020 0.1665 0 104 80-120 0

MS		Sample ID: 1302827-02BMS				Units: mg/Kg		Analysis Date: 3/4/2013 02:59 PM		
Client ID:		Run ID: HG1_130304A				SeqNo: 2227761		Prep Date: 3/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1615 0.014 0.1196 0.01789 120 75-125 0

MSD		Sample ID: 1302827-02BMSD				Units: mg/Kg		Analysis Date: 3/4/2013 03:02 PM		
Client ID:		Run ID: HG1_130304A				SeqNo: 2227763		Prep Date: 3/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1561 0.014 0.1198 0.01789 115 75-125 0.1615 3.39 35

The following samples were analyzed in this batch:

1302826-01B	1302826-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46647** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-46647-46647				Units: mg/Kg		Analysis Date: 3/1/2013 05:49 PM		
Client ID:		Run ID: ICPMS1_130301A				SeqNo: 2227327		Prep Date: 3/1/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	0.204	0.25								J
Lead	0.02668	0.25								J
Nickel	0.04305	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-46647-46647				Units: mg/Kg		Analysis Date: 3/1/2013 05:56 PM		
Client ID:		Run ID: ICPMS1_130301A				SeqNo: 2227328		Prep Date: 3/1/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.416	0.25	5	0	88.3	80-120	0			
Barium	5.01	0.25	5	0	100	80-120	0			
Cadmium	4.755	0.10	5	0	95.1	80-120	0			
Chromium	4.875	0.25	5	0	97.5	80-120	0			
Copper	4.892	0.25	5	0	97.8	80-120	0			
Lead	5.165	0.25	5	0	103	80-120	0			
Nickel	4.759	0.25	5	0	95.2	80-120	0			
Selenium	4.234	0.25	5	0	84.7	80-120	0			
Silver	4.974	0.25	5	0	99.5	80-120	0			
Zinc	4.366	0.50	5	0	87.3	80-120	0			

MS		Sample ID: 1302827-02BMS				Units: mg/Kg		Analysis Date: 3/1/2013 08:55 PM		
Client ID:		Run ID: ICPMS1_130301A				SeqNo: 2227356		Prep Date: 3/1/2013		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.653	0.76	7.61	2.089	99.4	75-125	0			
Barium	168.3	0.76	7.61	182.6	-187	75-125	0			SO
Cadmium	7.591	0.30	7.61	0.143	97.9	75-125	0			
Chromium	15.02	0.76	7.61	5.609	124	75-125	0			
Copper	15.71	0.76	7.61	8.881	89.7	75-125	0			
Lead	16.59	0.76	7.61	7.823	115	75-125	0			
Nickel	15.14	0.76	7.61	7.622	98.8	75-125	0			
Selenium	6.781	0.76	7.61	0.6028	81.2	75-125	0			
Silver	7.011	0.76	7.61	0.05552	91.4	75-125	0			
Zinc	40.24	1.5	7.61	30.78	124	75-125	0			O

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46647** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1302827-02BMSD				Units: mg/Kg		Analysis Date: 3/1/2013 09:01 PM		
Client ID:		Run ID: ICPMS1_130301A				SeqNo: 2227357		Prep Date: 3/1/2013		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.312	0.76	7.622	2.089	94.8	75-125	9.653	3.59	25	
Barium	181.9	0.76	7.622	182.6	-9.65	75-125	168.3	7.72	25	SO
Cadmium	7.66	0.30	7.622	0.143	98.6	75-125	7.591	0.911	25	
Chromium	14.87	0.76	7.622	5.609	122	75-125	15.02	0.979	25	
Copper	15.56	0.76	7.622	8.881	87.7	75-125	15.71	0.919	25	
Lead	16.36	0.76	7.622	7.823	112	75-125	16.59	1.42	25	
Nickel	14.87	0.76	7.622	7.622	95	75-125	15.14	1.83	25	
Selenium	6.677	0.76	7.622	0.6028	79.7	75-125	6.781	1.55	25	
Silver	6.992	0.76	7.622	0.05552	91	75-125	7.011	0.261	25	
Zinc	39.56	1.5	7.622	30.78	115	75-125	40.24	1.72	25	O

The following samples were analyzed in this batch:

1302826-01B	1302826-02B	1302826-03A
1302826-04A	1302826-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46653** Instrument ID **ICPMS1** Method: **SW6020A** **(Dissolve)**

DUP		Sample ID: 1302860-01C DUP				Units: mg/L		Analysis Date: 3/5/2013 02:53 PM		
Client ID:		Run ID: ICPMS1_130305A				SeqNo: 2229135		Prep Date: 2/28/2013		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	182.2	50	0	0	0	0-0	134.6	30.1		
Magnesium	25.62	20	0	0	0	0-0	18.13	34.2		
Sodium	4602	20	0	0	0	0-0	3647	23.2		

DUP		Sample ID: 1302860-01C DUP				Units: none		Analysis Date: 3/5/2013		
Client ID:		Run ID: SAR_130305A				SeqNo: 2229159		Prep Date: 2/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	84.59	0.010	0	0	0		78.3	7.72	50	

DUP		Sample ID: 1302828-05B DUP				Units: none		Analysis Date: 3/5/2013		
Client ID:		Run ID: SAR_130305A				SeqNo: 2229202		Prep Date: 2/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.5602	0.010	0	0	0		0.5891	5.04	50	

DUP		Sample ID: 1302828-05B DUP				Units: mg/L		Analysis Date: 3/5/2013 04:12 PM		
Client ID:		Run ID: ICPMS1_130305A				SeqNo: 2229253		Prep Date: 2/28/2013		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	150.3	50	0	0	0	0-0	134.5	11.1		
Magnesium	42.7	20	0	0	0	0-0	39.12	8.75		
Sodium	30.22	20	0	0	0	0-0	30.18	0.132		

The following samples were analyzed in this batch:

1302826-01C	1302826-02C	1302826-05B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46669** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKS1-46669-46669				Units: µg/Kg		Analysis Date: 3/4/2013 04:46 PM		
Client ID:		Run ID: SVMS4_130304A				SeqNo: 2228300		Prep Date: 3/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1306</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>78.4</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1807</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>108</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1345</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>80.7</i>	<i>37-107</i>	<i>0</i>			

LCS		Sample ID: SLCSS1-46669-46669				Units: µg/Kg		Analysis Date: 3/4/2013 04:14 PM		
Client ID:		Run ID: SVMS4_130304A				SeqNo: 2228299		Prep Date: 3/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	504.7	30	666.7	0	75.7	45-110	0			
Acenaphthylene	498	30	666.7	0	74.7	45-105	0			
Anthracene	568.3	30	666.7	0	85.2	55-105	0			
Benzo(a)anthracene	559	30	666.7	0	83.8	50-110	0			
Benzo(a)pyrene	597.3	30	666.7	0	89.6	50-110	0			
Benzo(b)fluoranthene	566.7	30	666.7	0	85	45-115	0			
Benzo(g,h,i)perylene	688.7	30	666.7	0	103	40-125	0			
Benzo(k)fluoranthene	659.3	30	666.7	0	98.9	45-115	0			
Chrysene	597.7	30	666.7	0	89.6	55-110	0			
Dibenzo(a,h)anthracene	690	30	666.7	0	103	40-125	0			
Fluoranthene	598.7	30	666.7	0	89.8	55-115	0			
Fluorene	537	30	666.7	0	80.5	50-110	0			
Indeno(1,2,3-cd)pyrene	679.3	30	666.7	0	102	40-120	0			
Naphthalene	492.7	30	666.7	0	73.9	40-105	0			
Pyrene	571.7	30	666.7	0	85.7	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1268</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>76.1</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1781</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>107</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1318</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>79.1</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1302826
 Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: 46669 Instrument ID SVMS4 Method: SW8270

MS Sample ID: 1302845-08A MS				Units: µg/Kg			Analysis Date: 3/4/2013 05:17 PM			
Client ID:		Run ID: SVMS4_130304A		SeqNo: 2228301		Prep Date: 3/4/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1521	89	1974	0	77	45-110	0			
Acenaphthylene	1534	89	1974	64.94	74.4	45-105	0			
Anthracene	1769	89	1974	79.78	85.6	55-105	0			
Benzo(a)anthracene	2231	89	1974	511.1	87.1	50-110	0			
Benzo(a)pyrene	2434	89	1974	682.7	88.7	50-110	0			
Benzo(b)fluoranthene	2864	89	1974	1169	85.8	45-115	0			
Benzo(g,h,i)perylene	1391	89	1974	244	58.1	40-125	0			
Benzo(k)fluoranthene	2403	89	1974	461	98.3	45-115	0			
Chrysene	2375	89	1974	699.4	84.9	55-110	0			
Dibenzo(a,h)anthracene	1397	89	1974	70.5	67.2	40-125	0			
Fluoranthene	2993	89	1974	1137	94	55-115	0			
Fluorene	1693	89	1974	0	85.7	50-110	0			
Indeno(1,2,3-cd)pyrene	1555	89	1974	258.8	65.6	40-120	0			
Naphthalene	1288	89	1974	0	65.2	40-105	0			
Pyrene	2372	89	1974	847.9	77.2	45-125	0			
Surr: 2-Fluorobiphenyl	3491	0	4936	0	70.7	12-100	0			
Surr: 4-Terphenyl-d14	4641	0	4936	0	94	25-137	0			
Surr: Nitrobenzene-d5	3182	0	4936	0	64.5	37-107	0			

MSD Sample ID: 1302845-08A MSD				Units: µg/Kg			Analysis Date: 3/4/2013 05:49 PM			
Client ID:		Run ID: SVMS4_130304A		SeqNo: 2228302		Prep Date: 3/4/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1436	86	1907	0	75.3	45-110	1521	5.79	30	
Acenaphthylene	1453	86	1907	64.94	72.8	45-105	1534	5.44	30	
Anthracene	1641	86	1907	79.78	81.9	55-105	1769	7.53	30	
Benzo(a)anthracene	2069	86	1907	511.1	81.7	50-110	2231	7.55	30	
Benzo(a)pyrene	2282	86	1907	682.7	83.9	50-110	2434	6.45	30	
Benzo(b)fluoranthene	2818	86	1907	1169	86.5	45-115	2864	1.61	30	
Benzo(g,h,i)perylene	1103	86	1907	244	45.1	40-125	1391	23.1	30	
Benzo(k)fluoranthene	2326	86	1907	461	97.8	45-115	2403	3.25	30	
Chrysene	2242	86	1907	699.4	80.9	55-110	2375	5.76	30	
Dibenzo(a,h)anthracene	1112	86	1907	70.5	54.6	40-125	1397	22.7	30	
Fluoranthene	2859	86	1907	1137	90.3	55-115	2993	4.59	30	
Fluorene	1543	86	1907	0	80.9	50-110	1693	9.25	30	
Indeno(1,2,3-cd)pyrene	1245	86	1907	258.8	51.7	40-120	1555	22.1	30	
Naphthalene	1235	86	1907	0	64.7	40-105	1288	4.26	30	
Pyrene	2230	86	1907	847.9	72.5	45-125	2372	6.19	30	
Surr: 2-Fluorobiphenyl	3326	0	4767	0	69.8	12-100	3491	4.83	40	
Surr: 4-Terphenyl-d14	4139	0	4767	0	86.8	25-137	4641	11.4	40	
Surr: Nitrobenzene-d5	3060	0	4767	0	64.2	37-107	3182	3.9	40	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentery C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46669** Instrument ID **SVMS4** Method: **SW8270**

The following samples were analyzed in this batch:

1302826-01B	1302826-02B
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Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46624** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: MBLK-46624-46624				Units: µg/Kg		Analysis Date: 2/27/2013 10:23 AM		
Client ID:		Run ID: VMS5_130227A				SeqNo: 2225130		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	987	0	1000	0	98.7	70-130	0			
Surr: 4-Bromofluorobenzene	965	0	1000	0	96.5	70-130	0			
Surr: Dibromofluoromethane	1004	0	1000	0	100	70-130	0			
Surr: Toluene-d8	956	0	1000	0	95.6	70-130	0			

MBLK		Sample ID: MBLK-46624-46624				Units: µg/Kg		Analysis Date: 2/28/2013 11:54 AM		
Client ID:		Run ID: VMS5_130228A				SeqNo: 2225750		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	958	0	1000	0	95.8	70-130	0			
Surr: 4-Bromofluorobenzene	973.5	0	1000	0	97.4	70-130	0			
Surr: Dibromofluoromethane	988.5	0	1000	0	98.8	70-130	0			
Surr: Toluene-d8	970	0	1000	0	97	70-130	0			

MBLK		Sample ID: MBLK-46624-46624				Units: µg/Kg		Analysis Date: 2/28/2013 01:40 PM		
Client ID:		Run ID: VMS9_130228A				SeqNo: 2225994		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1056	0	1000	0	106	70-130	0			
Surr: 4-Bromofluorobenzene	880.5	0	1000	0	88	70-130	0			
Surr: Dibromofluoromethane	1120	0	1000	0	112	70-130	0			
Surr: Toluene-d8	963	0	1000	0	96.3	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46624** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: MBLK-46624-46624				Units: µg/Kg		Analysis Date: 3/1/2013 01:36 PM		
Client ID:		Run ID: VMS9_130301A				SeqNo: 2227130		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	987.5	0	1000	0	98.8	70-130	0			
Surr: 4-Bromofluorobenzene	909.5	0	1000	0	91	70-130	0			
Surr: Dibromofluoromethane	1064	0	1000	0	106	70-130	0			
Surr: Toluene-d8	975	0	1000	0	97.5	70-130	0			

MBLK		Sample ID: MBLK-46624-46624				Units: µg/Kg		Analysis Date: 3/4/2013 12:59 PM		
Client ID:		Run ID: VMS9_130304A				SeqNo: 2228347		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	969.5	0	1000	0	97	70-130	0			
Surr: 4-Bromofluorobenzene	896.5	0	1000	0	89.6	70-130	0			
Surr: Dibromofluoromethane	978	0	1000	0	97.8	70-130	0			
Surr: Toluene-d8	985.5	0	1000	0	98.6	70-130	0			

MBLK		Sample ID: MBLK-46624-46624				Units: µg/Kg		Analysis Date: 3/5/2013 03:19 AM		
Client ID:		Run ID: VMS8_130304B				SeqNo: 2229129		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	992	0	1000	0	99.2	70-130	0			
Surr: 4-Bromofluorobenzene	1006	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	958	0	1000	0	95.8	70-130	0			
Surr: Toluene-d8	985	0	1000	0	98.5	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46624** Instrument ID **VMS5** Method: **SW8260**

LCS		Sample ID: LCS-46624-46624				Units: µg/Kg		Analysis Date: 2/27/2013 09:11 AM		
Client ID:		Run ID: VMS5_130227A				SeqNo: 2225129		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	937	30	1000	0	93.7	75-125	0			
Ethylbenzene	921	30	1000	0	92.1	75-125	0			
m,p-Xylene	1850	60	2000	0	92.5	80-125	0			
o-Xylene	916	30	1000	0	91.6	75-125	0			
Toluene	913.5	30	1000	0	91.4	70-125	0			
Xylenes, Total	2766	90	3000	0	92.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	973	0	1000	0	97.3	70-130	0			
Surr: 4-Bromofluorobenzene	1008	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	983	0	1000	0	98.3	70-130	0			
Surr: Toluene-d8	1011	0	1000	0	101	70-130	0			

LCS		Sample ID: LCS-46624-46624				Units: µg/Kg		Analysis Date: 2/28/2013 10:42 AM		
Client ID:		Run ID: VMS5_130228A				SeqNo: 2225749		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	955.5	30	1000	0	95.6	75-125	0			
Ethylbenzene	883.5	30	1000	0	88.4	75-125	0			
m,p-Xylene	1808	60	2000	0	90.4	80-125	0			
o-Xylene	888	30	1000	0	88.8	75-125	0			
Toluene	912	30	1000	0	91.2	70-125	0			
Xylenes, Total	2696	90	3000	0	89.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	994	0	1000	0	99.4	70-130	0			
Surr: 4-Bromofluorobenzene	992.5	0	1000	0	99.2	70-130	0			
Surr: Dibromofluoromethane	999	0	1000	0	99.9	70-130	0			
Surr: Toluene-d8	984.5	0	1000	0	98.4	70-130	0			

LCS		Sample ID: LCS-46624-46624				Units: µg/Kg		Analysis Date: 2/28/2013 12:23 PM		
Client ID:		Run ID: VMS9_130228A				SeqNo: 2225993		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	951.5	30	1000	0	95.2	75-125	0			
Ethylbenzene	943	30	1000	0	94.3	75-125	0			
m,p-Xylene	1944	60	2000	0	97.2	80-125	0			
o-Xylene	956.5	30	1000	0	95.6	75-125	0			
Toluene	916	30	1000	0	91.6	70-125	0			
Xylenes, Total	2900	90	3000	0	96.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	999	0	1000	0	99.9	70-130	0			
Surr: 4-Bromofluorobenzene	1008	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1090	0	1000	0	109	70-130	0			
Surr: Toluene-d8	1002	0	1000	0	100	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46624** Instrument ID **VMS5** Method: **SW8260**

LCS		Sample ID: LCS-46624-46624				Units: µg/Kg		Analysis Date: 3/1/2013 12:19 PM		
Client ID:		Run ID: VMS9_130301A				SeqNo: 2227129		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	958.5	30	1000	0	95.8	75-125	0			
Ethylbenzene	938	30	1000	0	93.8	75-125	0			
m,p-Xylene	1950	60	2000	0	97.5	80-125	0			
o-Xylene	951.5	30	1000	0	95.2	75-125	0			
Toluene	897.5	30	1000	0	89.8	70-125	0			
Xylenes, Total	2902	90	3000	0	96.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	993	0	1000	0	99.3	70-130	0			
Surr: 4-Bromofluorobenzene	1036	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1117	0	1000	0	112	70-130	0			
Surr: Toluene-d8	1000	0	1000	0	100	70-130	0			

LCS		Sample ID: LCS-46624-46624				Units: µg/Kg		Analysis Date: 3/4/2013 12:07 PM		
Client ID:		Run ID: VMS9_130304A				SeqNo: 2228346		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	929.5	30	1000	0	93	75-125	0			
Ethylbenzene	1034	30	1000	0	103	75-125	0			
m,p-Xylene	1882	60	2000	0	94.1	80-125	0			
o-Xylene	1056	30	1000	0	106	75-125	0			
Toluene	1000	30	1000	0	100	70-125	0			
Xylenes, Total	2938	90	3000	0	98	75-125	0			
Surr: 1,2-Dichloroethane-d4	903	0	1000	0	90.3	70-130	0			
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	997	0	1000	0	99.7	70-130	0			
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0			

LCS		Sample ID: LCS-46624-46624				Units: µg/Kg		Analysis Date: 3/5/2013 02:08 AM		
Client ID:		Run ID: VMS8_130304B				SeqNo: 2229128		Prep Date: 2/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1042	30	1000	0	104	75-125	0			
Ethylbenzene	1001	30	1000	0	100	75-125	0			
m,p-Xylene	2009	60	2000	0	100	80-125	0			
o-Xylene	997.5	30	1000	0	99.8	75-125	0			
Toluene	1000	30	1000	0	100	70-125	0			
Xylenes, Total	3006	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	968.5	0	1000	0	96.8	70-130	0			
Surr: 4-Bromofluorobenzene	996	0	1000	0	99.6	70-130	0			
Surr: Dibromofluoromethane	978	0	1000	0	97.8	70-130	0			
Surr: Toluene-d8	952	0	1000	0	95.2	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1302826
 Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46624** Instrument ID **VMS5** Method: **SW8260**

MS				Sample ID: 1302827-01A MS			Units: µg/Kg		Analysis Date: 2/28/2013 07:39 PM	
Client ID:		Run ID: VMS9_130228A			SeqNo: 2225987		Prep Date: 2/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	884	30	1000	0	88.4	75-125	0			
Ethylbenzene	904.5	30	1000	0	90.4	75-125	0			
m,p-Xylene	1882	60	2000	71.5	90.5	80-125	0			
o-Xylene	937	30	1000	0	93.7	75-125	0			
Toluene	887.5	30	1000	0	88.8	70-125	0			
Xylenes, Total	2819	90	3000	71.5	91.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	957.5	0	1000	0	95.8	70-130	0			
Surr: 4-Bromofluorobenzene	1064	0	1000	0	106	70-130	0			
Surr: Dibromofluoromethane	980	0	1000	0	98	70-130	0			
Surr: Toluene-d8	1024	0	1000	0	102	70-130	0			

MSD				Sample ID: 1302827-01A MSD			Units: µg/Kg		Analysis Date: 2/28/2013 08:04 PM	
Client ID:		Run ID: VMS9_130228A			SeqNo: 2225988		Prep Date: 2/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	846.5	30	1000	0	84.6	75-125	884	4.33	30	
Ethylbenzene	887	30	1000	0	88.7	75-125	904.5	1.95	30	
m,p-Xylene	1855	60	2000	71.5	89.2	80-125	1882	1.45	30	
o-Xylene	926	30	1000	0	92.6	75-125	937	1.18	30	
Toluene	848	30	1000	0	84.8	70-125	887.5	4.55	30	
Xylenes, Total	2781	90	3000	71.5	90.3	75-125	2819	1.36	30	
Surr: 1,2-Dichloroethane-d4	948	0	1000	0	94.8	70-130	957.5	0.997	30	
Surr: 4-Bromofluorobenzene	1068	0	1000	0	107	70-130	1064	0.422	30	
Surr: Dibromofluoromethane	967	0	1000	0	96.7	70-130	980	1.34	30	
Surr: Toluene-d8	990	0	1000	0	99	70-130	1024	3.38	30	

The following samples were analyzed in this batch:

1302826-01A 1302826-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46634** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-46634-46634				Units: mg/Kg		Analysis Date: 3/1/2013 11:30 AM		
Client ID:		Run ID: WETCHEM_130301C				SeqNo: 2226515		Prep Date: 2/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-46634-46634				Units: mg/Kg		Analysis Date: 3/1/2013 11:30 AM		
Client ID:		Run ID: WETCHEM_130301C				SeqNo: 2226516		Prep Date: 2/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.766 0.50 1.984 0 89 75-110 0

MS		Sample ID: 1302827-02B MS				Units: mg/Kg		Analysis Date: 3/1/2013 11:30 AM		
Client ID:		Run ID: WETCHEM_130301C				SeqNo: 2226521		Prep Date: 2/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.472 0.50 2 0.2421 61.5 60-130 0

MSD		Sample ID: 1302827-02B MSD				Units: mg/Kg		Analysis Date: 3/1/2013 11:30 AM		
Client ID:		Run ID: WETCHEM_130301C				SeqNo: 2226522		Prep Date: 2/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.576 0.50 2 0.2421 66.7 60-130 1.472 6.82 30

The following samples were analyzed in this batch:

1302826-01B 1302826-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **46653** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1302860-01C DUP				Units: mmhos/cm @25°F		Analysis Date: 3/4/2013 04:00 PM		
Client ID:		Run ID: WETCHEM_130304I				SeqNo: 2228023		Prep Date: 2/28/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	22.95	0.025	0	0	0		21.55	6.29	50	

DUP		Sample ID: 1302828-05B DUP				Units: mmhos/cm @25°F		Analysis Date: 3/5/2013 12:00 PM		
Client ID:		Run ID: WETCHEM_130305G				SeqNo: 2228719		Prep Date: 3/5/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.21	0.025	0	0	0		1.07	12.3	50	

The following samples were analyzed in this batch:

1302826-01C	1302826-02C	1302826-05B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **R116736** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-R116736-R116736				Units: s.u.		Analysis Date: 2/27/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130227M				SeqNo: 2224765		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.24	0	4.4	0	96.4	90-110	0			

DUP		Sample ID: 1302826-01B DUP				Units: s.u.		Analysis Date: 2/27/2013 09:00 AM		
Client ID: 2 Feet		Run ID: WETCHEM_130227M				SeqNo: 2224767		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.88	0	0	0	0	0-0	8.88	0	20	

DUP		Sample ID: 1302828-01B DUP				Units: s.u.		Analysis Date: 2/27/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130227M				SeqNo: 2224774		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.89	0	0	0	0	0-0	8.89	0	20	

The following samples were analyzed in this batch:

1302826-01B	1302826-02B	1302826-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302826
Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **R116774** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R116774				Units: % of sample			Analysis Date: 2/27/2013 03:30 PM		
Client ID:		Run ID: MOIST_130227B				SeqNo: 2225534		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	ND	0.050									

DUP					Sample ID: 1302828-01B DUP					Units: % of sample					Analysis Date: 2/27/2013 03:30 PM																																							
Client ID:					Run ID: MOIST_130227B					SeqNo: 2225523					Prep Date:					DF: 1																																		
Analyte					Result					PQL					SPK Val					SPK Ref Value					%REC					Control Limit					RPD Ref Value					%RPD					RPD Limit					Qual				
Moisture					11.43					0.050					0					0					0					0-0					11.42					0.0875					20									

The following samples were analyzed in this batch:

1302826-01B	1302826-02B	1302826-05B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1302826
 Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **R116813** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R116813				Units: % of sample			Analysis Date: 2/28/2013 12:32 PM		
Client ID:		Run ID: MOIST_130228A				SeqNo: 2226438			Prep Date:		
									DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: LCS-R116813				Units: % of sample			Analysis Date: 2/28/2013 12:32 PM		
Client ID:		Run ID: MOIST_130228A				SeqNo: 2226437			Prep Date:		
									DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1302826-04A DUP				Units: % of sample			Analysis Date: 2/28/2013 12:32 PM		
Client ID: BKGD 2		Run ID: MOIST_130228A				SeqNo: 2226428			Prep Date:		
									DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 22.63 0.050 0 0 0 0-0 23.41 3.39 20

DUP		Sample ID: 1302827-04A DUP				Units: % of sample			Analysis Date: 2/28/2013 12:32 PM		
Client ID:		Run ID: MOIST_130228A				SeqNo: 2226431			Prep Date:		
									DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 10.09 0.050 0 0 0 0-0 10.31 2.16 20

The following samples were analyzed in this batch:

1302826-03A 1302826-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1302826
 Project: Antero Gentry C Pit 2/22/13

QC BATCH REPORT

Batch ID: **R116878** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R116878					Units: % of sample			Analysis Date: 3/1/2013 01:50 PM		
Client ID:		Run ID: MOIST_130301B				SeqNo: 2227499		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 0.04 0.050 J

LCS	Sample ID: LCS-R116878					Units: % of sample			Analysis Date: 3/1/2013 01:50 PM		
Client ID:		Run ID: MOIST_130301B			SeqNo: 2227495		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1302844-09ADUP2					Units: % of sample		Analysis Date: 3/1/2013 01:50 PM		
Client ID:		Run ID: MOIST_130301B			SeqNo: 2227474		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 38.47 0.050 0 0 0 0-0 38.56 0.234 20

DUP	Sample ID: 1302844-09ADUP1					Units: % of sample		Analysis Date: 3/1/2013 01:50 PM		
Client ID:			Run ID: MOIST_130301B			SeqNo: 2227475		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 38.95 0.050 0 0 0 0-0 38.56 1.01 20

DUP	Sample ID: 1303030-09BDUP					Units: % of sample			Analysis Date: 3/1/2013 01:50 PM		
Client ID:			Run ID: MOIST_130301B			SeqNo: 2227493		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 20.8 0.050 0 0 0 0-0 20.94 0.671 20

The following samples were analyzed in this batch:

1302826-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

WORKORDER
#

1302826

PAGE

1 of 1

DISPOSAL





By Lab or Return to Client

[illegible]

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: <div style="text-align: center;"> </div>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/> X	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>	
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Reed W. D.	2/25/13	5:00
RECEIVED BY		Nick M.	2-25-13	5:00
RELINQUISHED BY		Nick M.	2-25-13	5:10
RECEIVED BY		Diane F. Shaw	2/27/13	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 27-Feb-13 10:00

Work Order: 1302826

Received by: DS

Checklist completed by Diane Shaw 27-Feb-13
eSignature Date

Reviewed by: Ann Preston 27-Feb-13
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.6 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>2/27/2013 1:13:05 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

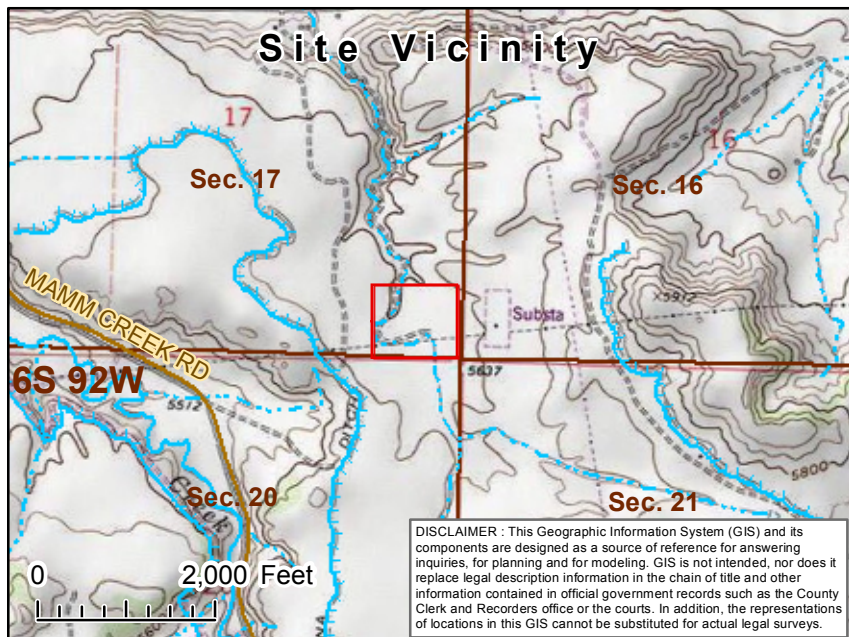
Person Contacted:

Contacted By:

Regarding:

Comments:

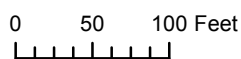
CorrectiveAction:



Sample Location Map
Location: Gentry C
Antero Resources Piceance Corp.

Legend

- | | |
|-----------------|------------------------------|
| ● Sample Point | Hydrographic Features |
| ▨ Affected Area | — Perennial Stream |
| ● Gas Well Head | - - - Intermittent Stream |
| PLSS | - - - Ditch/Canal |
| ▭ Township | |
| ▭ Section | |
| — Highways | |
| — Public Roads | |



ATTACHMENT 2

ANTERO RESOURCES

Waste Management Report

GARFIELD COUNTY LANDFILL							
DISPOSAL DATE	TRUCK TICKET NO.	TRUCKING COMPANY	ORIGIN OF LOAD	MATERIAL	# LOADS	NET LBS	TONS
1 04/22/2008	374742	B. D. KISER	GENTRY C PAD	DIRT	1	24,240	
2 05/05/2008	382004	B. D. KISER	GENTRY C PAD	MUD	1	21,240	
3 05/12/2008	382014	B. D. KISER	GENTRY C PAD	MUD	1	18,080	
4 06/03/2008	382020	B. D. KISER	GENTRY C PAD	MUD	1	20,640	
5 06/04/2008	382021	B. D. KISER	GENTRY C PAD	MUD	1	23,780	
6 06/11/2008	382028	B. D. KISER	GENTRY C PAD	MUD	1	17,460	
7 06/12/2008	382029	B. D. KISER	GENTRY C PAD	MUD	1	20,340	
8 06/13/2008	382030	B. D. KISER	GENTRY C PAD	MUD	1	24,880	
9 11/07/2008	391984	B. D. KISER	GENTRY C PAD	MUD	1		
10 11/07/2008	391984	B. D. KISER	GENTRY C PAD	MUD	1		
11 11/12/2008	391986	B. D. KISER	GENTRY C PAD	MUD	1		
12 11/12/2008	391986	B. D. KISER	GENTRY C PAD	MUD	1		
13 11/12/2008	391986	B. D. KISER	GENTRY C PAD	MUD	1		
14 11/12/2008	391986	B. D. KISER	GENTRY C PAD	MUD	1	15,320	
15 11/12/2008	391986	B. D. KISER	GENTRY C PAD	MUD	1		
16 11/13/2008	391987	B. D. KISER	GENTRY C PAD	MUD	1		
17 11/13/2008	391987	B. D. KISER	GENTRY C PAD	MUD	1		
18 11/13/2008	391987	B. D. KISER	GENTRY C PAD	MUD	1		
19 12/10/2008	201354	B. D. KISER	GENTRY C PAD	MUD	1	24,060	
20 12/22/2008	201361	B. D. KISER	GENTRY C PAD	MUD	1	12,000	
21 01/07/2009	201370	B. D. KISER	GENTRY C PAD	MUD	1	16,240	
22 01/08/2009	201371	B. D. KISER	GENTRY C PAD	MUD	1	13,080	
23 01/09/2009	201372	B. D. KISER	GENTRY C PAD	DRILL CUTTINGS	1	13,420	
24 05/05/2008	05207	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1	14,740	
25 05/20/2008	05211	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1	14,700	
26 05/11/2008	05212	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1	14,700	
27 11/12/2008	05289	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1		
28 11/12/2008	05289	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1		
29 11/12/2008	05289	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1		
30 11/12/2008	05289	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1	12,360	
31 11/12/2008	05289	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1		
32 11/13/2008	05290	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1	14,280	
33 11/13/2008	05290	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1		
34 11/13/2008	05290	G.B. TRUCKING LLC	GENTRY C PAD	DRILL CUTTINGS	1		
35 05/05/2008	173908	HOGAN'S HAULER	GENTRY C PAD	DRILL CUTTINGS	1	18,060	
36 05/06/2008	173908	HOGAN'S HAULER	GENTRY C PAD	DRILL CUTTINGS	1	17,940	
37 05/09/2008	173910	HOGAN'S HAULER	GENTRY C PAD	DRILL CUTTINGS	1	21,780	
38 11/12/2008	173885	HOGAN'S HAULER	GENTRY C PAD	DRILL CUTTINGS	1	14,740	
39 11/12/2008	173885	HOGAN'S HAULER	GENTRY C PAD	DRILL CUTTINGS	1		

ANTERO RESOURCES

Waste Management Report

GARFIELD COUNTY LANDFILL

DISPOSAL DATE	TRUCK TICKET NO.	TRUCKING COMPANY	ORIGIN OF LOAD	MATERIAL	# LOADS	NET LBS	TONS
40 11/12/2008	173885	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1		
41 11/12/2008	173885	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1		
42 11/13/2008	173887	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1		
43 11/13/2008	173887	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1		
44 12/09/2008	173892	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1	18,700	
45 12/10/2008	173892	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1	20,340	
46 01/07/2009	173896	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1	13,840	
47 01/08/2009	173897	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1	13,700	
48 01/09/2009	173897	HOGAN'S HAULER	GENTRY CPAD	DRILL CUTTINGS	1	13,880	
49 05/05/2008	4934	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	17,960	
50 05/09/2008	5076	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	19,440	
51 05/20/2008	4938	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	6		
52 05/21/2008	4939	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
53 06/03/2008	5178	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	20,280	
54 11/12/2008	6588	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
55 11/12/2008	6588	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
56 11/12/2008	6588	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
57 11/12/2008	6588	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	13,820	
58 11/13/2008	6589	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
59 11/13/2008	6589	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
60 11/13/2008	6589	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1		
61 12/09/2008	6599	HOGBACK TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	16,100	
62 04/22/2008	183262	J&D TRUCKING	GENTRY CPAD	UNKNOWN	1	26,240	
63 04/21/2008	485458	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	14,960	
64 04/22/2008	485459	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	23,940	
65 05/05/2008	485471	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	15,640	
66 05/06/2008	485472	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	17,860	
67 05/20/2008	485479	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	14,800	
68 05/21/2008	485480	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	15,660	
69 06/03/2008	485484	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	22,440	
70 06/04/2008	485485	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	20,600	
71 06/11/2008	485492	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	18,720	
72 06/12/2008	485493	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	19,160	
73 06/13/2008	485494	LOCKLEAR CONSTRUCTION	GENTRY CPAD	MUD	1	24,200	
74 04/22/2008	965269	LOYA TRUCKING	GENTRY CPAD	MUD	1	28,900	
75 06/03/2008	04014	MCDONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	21,940	
76 06/11/2008	04023	MCDONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	15,760	
77 06/12/2008	04024	MCDONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	20,940	
78 06/13/2008	04027	MCDONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	26,020	

ANTERO RESOURCES

Waste Management Report

GARFIELD COUNTY LANDFILL

DISPOSAL DATE	TRUCK TICKET NO.	TRUCKING COMPANY	ORIGIN OF LOAD	MATERIAL	# LOADS	NET LBS	TONS
79	11/13/2008	04104	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	
80	11/13/2008	04104	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	
81	11/13/2008	04104	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	20,460
82	12/09/2008	04116	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	16,380
83	12/10/2008	04118	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	17,540
84	12/22/2008	04126	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	12,420
85	01/07/2009	04136	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	13,460
86	01/08/2009	04137	MC DONALD ENTERPRISES	GENTRY CPAD	DRILL CUTTINGS	1	12,780
87	11/12/2008	2650	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	17,180
88	11/12/2008	2650	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
89	11/13/2008	2650	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
90	11/13/2008	2650	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
91	11/13/2008	2650	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
92	11/13/2008	2650	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
93	12/09/2008	2659	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	18,060
94	12/22/2008	2662	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	14,940
95	01/07/2009	2667	MILES TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	8,620
96	05/05/2008	1097	PONCE TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	18,260
97	06/03/2008	1114	PONCE TRUCKING	GENTRY CPAD	MUD	1	20,720
98	05/20/2008	908955	RR TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	23,320
99	05/05/2008	931267	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	15,720
100	05/09/2008	931271	SANDY'S TRUCKING	GENTRY CPAD	DIRT	1	20,640
101	05/20/2008	931276	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	14,340
102	06/03/2008	931281	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	13,220
103	05/11/2008	931287	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	19,220
104	06/12/2008	931288	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	14,780
105	06/13/2008	931289	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	21,680
106	11/07/2008	915838	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	23,020
107	11/07/2008	915838	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
108	11/07/2008	915838	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
109	11/12/2008	915840	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
110	11/12/2008	915840	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
111	11/12/2008	915840	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
112	11/12/2008	915840	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	11,340
113	11/12/2008	915840	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
114	11/13/2008	915841	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
115	11/13/2008	915841	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
116	11/13/2008	915841	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	
117	11/13/2008	915841	SANDY'S TRUCKING	GENTRY CPAD	DRILL CUTTINGS	1	

ANTERO RESOURCES

Waste Management Report

GARFIELD COUNTY LANDFILL

DISPOSAL	TRUCK TICKET NO.	TRUCKING COMPANY	ORIGIN OF LOAD	MATERIAL	# LOADS	NET LBS	TONS
118	12/08/2008	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	14,720	
119	12/09/2008	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	17,100	
120	12/10/2008	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	22,220	
121	12/22/2008	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	12,920	
122	01/07/2009	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	13,440	
123	01/08/2009	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	10,900	
124	01/09/2009	SANDY'S TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	14,120	
125	05/05/2008	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	20,240	
126	05/09/2008	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	22,480	
127	05/22/2008	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	17,940	
128	06/03/2008	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	23,920	
129	06/12/2008	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	24,620	
130	12/19/2008	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	12,120	
131	01/07/2009	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	15,500	
132	01/08/2009	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	14,120	
133	01/09/2009	STEWART TRUCKING	GENTRY C PAD	DRILL CUTTINGS	1	11,900	
134	04/21/2008	TD PRODUCTION	GENTRY C PAD	DRILL CUTTINGS	7		
135	04/22/2008	TD PRODUCTION	GENTRY C PAD	DRILL CUTTINGS	2		
136	05/05/2008	TD PRODUCTION	GENTRY C PAD	DRILL CUTTINGS	5		
137	05/20/2008	TD PRODUCTION	GENTRY C PAD	DRILL CUTTINGS	5		
138	04/21/2008	T'S TRUCKING, INC.	GENTRY C PAD	DIRT	1	15,360	
139	05/05/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	20,280	
140	05/22/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	17,540	
141	06/03/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	19,400	
142	06/11/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	18,020	
143	06/12/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	24,140	
144	06/13/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	24,180	
145	11/07/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
146	11/07/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	17,740	
147	11/12/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	13,620	
148	11/12/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
149	11/12/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
150	11/12/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
151	11/13/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	15,300	
152	11/13/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
153	11/13/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
154	11/13/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1		
155	12/08/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	12,460	
156	12/10/2008	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	19,900	

ANTERO RESOURCES

Waste Management Report

GARFIELD COUNTY LANDFILL									
DISPOSAL	DATE	TRUCK TICKET NO.	TRUCKING COMPANY	ORIGIN OF LOAD	MATERIAL	# LOADS	NET LBS	TONS	
157	12/22/2008	733402	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	12,380		
158	01/07/2009	733413	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	16,260		
159	01/08/2009	733414	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	13,260		
160	01/09/2009	733415	T'S TRUCKING, INC.	GENTRY C PAD	DRILL CUTTINGS	1	12,540		
161	05/20/2008	574818	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1	15,100		
162	06/03/2008	574822	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1	20,920		
163	11/07/2008	217477	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1			
164	11/13/2008	217479	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1			
165	11/13/2008	217479	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1			
166	11/13/2008	217479	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1			
167	11/13/2008	217479	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1			
168	12/19/2008	217491	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1	12,420		
169	01/08/2009	217495	WESSIDE TRUCKING INC.	GENTRY C PAD	DRILL CUTTINGS	1	12,240		
						189	1,893,340		

ANTERO RESOURCES

Waste Management Report

REAMS CONSTRUCTION CO.

DISPOSAL DATE	TRUCK TICKET NO.	TRUCKING COMPANY	ORIGIN OF LOAD	MATERIAL	# LOADS	NET LBS	TONS
1 02/21/2012	2599	REAMS CONSTRUCTION CO.	GENTRY C PAD	TANK BOTTOMS/SLUD	1	50,000	25.0
2 02/21/2012	3288	REAMS CONSTRUCTION CO.	GENTRY C PAD	TANK BOTTOMS/SLUD	1	50,000	25.0
3 02/21/2012	1967	REAMS CONSTRUCTION CO.	GENTRY C PAD	TANK BOTTOMS/SLUD	1	50,000	25.0
4 02/21/2012	2274	REAMS CONSTRUCTION CO.	GENTRY C PAD	TANK BOTTOMS/SLUD	1	45,000	22.5
5 02/21/2012	2366	REAMS CONSTRUCTION CO.	GENTRY C PAD	TANK BOTTOMS/SLUD	1	50,000	25.0
6 02/21/2012	3686	REAMS CONSTRUCTION CO.	GENTRY C PAD	TANK BOTTOMS/SLUD	1	60,000	30.0
					6	305,000	152.5