

State of Colorado
Oil and Gas Conservation Commission

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



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
11/22/2011

1. OGCC Operator Number: 10079	4. Contact Name: Gerald G. Alberts	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Antero Resources Corporation	Phone: 303-357-7341	
3. Address: 1625 17th St City: Denver State: CO Zip: 80202	Fax: 303-357-7315	
5. API Number 05-045-19392	OGCC Facility ID Number 416703	Survey Plat
6. Well/Facility Name: Valley Farms J Pad	7. Well/Facility Number #J1	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESE 7 6S 92W 6th		Surface Equip Diagram
9. County: Garfield	10. Field Name: Piceance	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FWL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No <input type="checkbox"/>
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code Spacing order number Unit Acreage Unit configuration
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date ceasing op)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately <input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent		<input checked="" type="checkbox"/> Report of Work Done
Approximate Start Date:		Date Work Completed: October 27, 2011
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	for Spills and Releases

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

Signed: Date: Nov 21, 2011 Email: jalberts@anteroresources.com
Print Name: Gerald G. Alberts Title: Manager, Environmental and Regulatory

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | |
|--|----------------------------|
| 1. OGCC Operator Number: 10079 | API Number: 05-045-19392 |
| 2. Name of Operator: Antero Resources Corporation | OGCC Facility ID # 416703 |
| 3. Well/Facility Name: Valley Farms J | Well/Facility Number: # J1 |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE 7 6S 92W 6th | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Please see attached analytical results in reference to Spill # 2216891. Confirmation sampling was taken on October 27, 2011.



07-Nov-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Antero Valley Farms J Pad Prod. W. Release 11-288**

Work Order: **1111066**

Dear Mark,

ALS Environmental received 4 samples on 02-Nov-2011 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 28.

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

Sincerely,

A handwritten signature in black ink that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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 The ALS logo, a stylized blue triangle with a yellow flame inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Antero Valley Farms J Pad Prod. W. Release 11-288
Work Order: 1111066

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>
1111066-01	Point Of Origin	Soil		10/27/2011 14:50	11/2/2011 10:00	<input type="checkbox"/>
1111066-02	BKGD 1	Soil		10/27/2011 15:00	11/2/2011 10:00	<input type="checkbox"/>
1111066-03	BKGD 2	Soil		10/27/2011 15:05	11/2/2011 10:00	<input type="checkbox"/>
1111066-04	BKGD 3	Soil		10/27/2011 15:10	11/2/2011 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Antero Valley Farms J Pad Prod. W. Release 11-288
Work Order: 1111066

Case Narrative

Batch 37147 MS/MSD data for Hexavalent Chromium is not related to this project's samples.

Batch 37086 MS/MSD data for Metals is not related to this project's samples.

The samples for pH were received after the hold time had expired

Client: HRL Compliance Solutions
Project: Antero Valley Farms J Pad Prod. W. Release 11-288
WorkOrder: 1111066

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
SQL	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 as noted	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111066

Sample ID: Point Of Origin

Lab ID: 1111066-01

Collection Date: 10/27/2011 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	11		SW8015M		Prep Date: 11/3/2011	Analyst: RM
			5.4	mg/Kg-dry	1	11/3/2011 12:39 PM
Surr: 4-Terphenyl-d14	82.2		39-115	%REC	1	11/3/2011 12:39 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	19		SW8015			Analyst: JD
			6.7	mg/Kg-dry	100	11/3/2011 08:56 AM
Surr: Toluene-d8	94.9		50-150	%REC	100	11/3/2011 08:56 AM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 11/2/2011	Analyst: LR
			0.020	mg/Kg-dry	1	11/3/2011 01:49 PM
METALS BY ICP-MS						
Arsenic	3.1		SW6020A		Prep Date: 11/2/2011	Analyst: CES
			0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Barium	190		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Cadmium	ND		0.34	mg/Kg-dry	2	11/3/2011 03:15 PM
Chromium	13		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Copper	9.2		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Lead	9.8		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Nickel	11		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Selenium	ND		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Silver	ND		0.86	mg/Kg-dry	2	11/3/2011 03:15 PM
Zinc	40		1.7	mg/Kg-dry	2	11/3/2011 03:15 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses		Rcvd 11/5/11	SUBCONTRACT			Analyst: A&LGL
			as noted		1	11/5/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 11/3/2011	Analyst: JJ
			39	µg/Kg-dry	1	11/3/2011 02:48 PM
Anthracene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Benzo(a)anthracene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Benzo(a)pyrene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Benzo(b)fluoranthene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Benzo(g,h,i)perylene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Benzo(k)fluoranthene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Chrysene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Dibenzo(a,h)anthracene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Fluoranthene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Fluorene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Indeno(1,2,3-cd)pyrene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Naphthalene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Pyrene	ND		39	µg/Kg-dry	1	11/3/2011 02:48 PM
Surr: 2,4,6-Tribromophenol	76.1		34-140	%REC	1	11/3/2011 02:48 PM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111066

Sample ID: Point Of Origin

Lab ID: 1111066-01

Collection Date: 10/27/2011 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	63.3		12-100	%REC	1	11/3/2011 02:48 PM
<i>Surr: 2-Fluorophenol</i>	82.1		33-117	%REC	1	11/3/2011 02:48 PM
<i>Surr: 4-Terphenyl-d14</i>	88.3		25-137	%REC	1	11/3/2011 02:48 PM
<i>Surr: Nitrobenzene-d5</i>	75.8		37-107	%REC	1	11/3/2011 02:48 PM
<i>Surr: Phenol-d6</i>	84.8		40-106	%REC	1	11/3/2011 02:48 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		130	µg/Kg-dry	100	11/3/2011 07:16 AM
Ethylbenzene	ND		270	µg/Kg-dry	100	11/3/2011 07:16 AM
m,p-Xylene	310		270	µg/Kg-dry	100	11/3/2011 07:16 AM
o-Xylene	ND		130	µg/Kg-dry	100	11/3/2011 07:16 AM
Toluene	ND		200	µg/Kg-dry	100	11/3/2011 07:16 AM
Xylenes, Total	ND		400	µg/Kg-dry	100	11/3/2011 07:16 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	105		70-120	%REC	100	11/3/2011 07:16 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.9		75-120	%REC	100	11/3/2011 07:16 AM
<i>Surr: Dibromofluoromethane</i>	98.0		85-115	%REC	100	11/3/2011 07:16 AM
<i>Surr: Toluene-d8</i>	101		85-115	%REC	100	11/3/2011 07:16 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	13		0.67	mg/Kg-dry	1	11/3/2011 05:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 11/3/2011	Analyst: MB
Chromium, Hexavalent	ND		0.66	mg/Kg-dry	1	11/3/2011 04:30 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	25		0.050	% of sample	1	11/2/2011 01:11 PM
PH			SW9045D			Analyst: JJG
pH	8.50	H		s.u.	1	11/2/2011 08:30 AM

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

ALS Group USA, Corp**Date:** 07-Nov-11**Client:** HRL Compliance Solutions**Project:** Antero Valley Farms J Pad Prod. W. Release 11-288**Work Order:** 1111066**Sample ID:** BKGD 1**Lab ID:** 1111066-02**Collection Date:** 10/27/2011 03:00 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 11/2/2011	Analyst: CES
Arsenic	2.9		1.1	mg/Kg-dry	2	11/3/2011 03:20 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 11/5/11		as noted		1	11/5/2011
MOISTURE			A2540 G			Analyst: CG
Moisture	25		0.050	% of sample	1	11/2/2011 01:11 PM
PH			SW9045D			Analyst: JJG
pH	8.27	H		s.u.	1	11/2/2011 08:30 AM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111066

Sample ID: BKGD 2

Lab ID: 1111066-03

Collection Date: 10/27/2011 03:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 11/2/2011	Analyst: CES
Arsenic	3.5		0.90	mg/Kg-dry	2	11/3/2011 03:25 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	22		0.050	% of sample	1	11/2/2011 01:11 PM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111066

Sample ID: BKGD 3

Lab ID: 1111066-04

Collection Date: 10/27/2011 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 11/2/2011	Analyst: CES
Arsenic	3.5		1.1	mg/Kg-dry	2	11/3/2011 03:31 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	24		0.050	% of sample	1	11/2/2011 01:11 PM

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

Report Number: F11307-0735

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: 1111066

DATE RECEIVED: 11/03/2011

DATE REPORTED: 11/05/2011

PAGE: 1

P.O. NUMBER: 20-122011148

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
43759	01C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	2.87	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	50	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	23	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	2369	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	69.3	-	USDA Handbook 60
43760	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.65	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	50	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	27	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	302	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	8.5	-	USDA Handbook 60

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1111066

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Batch ID: 37092

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-37092-37092				Units: mg/Kg		Analysis Date: 11/3/2011 11:55 AM		
Client ID:		Run ID: GC8_111103A				SeqNo: 1806126		Prep Date: 11/3/2011		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	1.151	0	1.667	0	69	39-115	0			

LCS		Sample ID: DLCSS1-37092-37092				Units: mg/Kg		Analysis Date: 11/3/2011 11:10 AM		
Client ID:		Run ID: GC8_111103A				SeqNo: 1810008		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	161.8	4.2	166.7	0	97.1	60-130	0			
Surr: 4-Terphenyl-d14	1.102	0	1.667	0	66.1	39-115	0			

LCSD		Sample ID: DLCSDS1-37092-37092				Units: mg/Kg		Analysis Date: 11/3/2011 11:10 AM		
Client ID:		Run ID: GC8_111103A				SeqNo: 1810010		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	164.1	4.2	166.7	0	98.5	60-130	161.8	1.43	30	
Surr: 4-Terphenyl-d14	1.044	0	1.667	0	62.6	39-115	1.102	5.44	30	

The following samples were analyzed in this batch:

1111066-01B

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97189** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-R97189-R97189				Units: µg/L		Analysis Date: 11/3/2011 01:51 AM		
Client ID:		Run ID: GC10_111103A				SeqNo: 1805947		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								
<i>Surr: Toluene-d8</i>	93.35	0	100	0	93.4	70-130	0			

LCS		Sample ID: LCS-R97189-R97189				Units: µg/L		Analysis Date: 11/3/2011 12:36 PM		
Client ID:		Run ID: GC10_111103A				SeqNo: 1805948		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)	25710	200	25000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	89.25	0	100	0	89.2	70-130	0			

LCSD		Sample ID: LCSD-R97189-R97189				Units: µg/L		Analysis Date: 11/3/2011 01:01 AM		
Client ID:		Run ID: GC10_111103A				SeqNo: 1805946		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)	24860	200	25000	0	99.4	70-130	25710	3.36	30	
<i>Surr: Toluene-d8</i>	90.34	0	100	0	90.3	70-130	89.25	1.21	30	

The following samples were analyzed in this batch:

1111066-01A

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37082** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-37082-37082				Units: mg/Kg		Analysis Date: 11/3/2011 01:12 PM		
Client ID:		Run ID: HG1_111103A				SeqNo: 1805727		Prep Date: 11/2/2011		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-37082-37082				Units: mg/Kg		Analysis Date: 11/3/2011 01:14 PM		
Client ID:		Run ID: HG1_111103A				SeqNo: 1805728		Prep Date: 11/2/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1666 0.020 0.1665 0 100 80-120 0

LCSD		Sample ID: LCSD-37082-37082				Units: mg/Kg		Analysis Date: 11/3/2011 01:16 PM		
Client ID:		Run ID: HG1_111103A				SeqNo: 1805729		Prep Date: 11/2/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1668 0.020 0.1665 0 100 80-120 0.1666 0.15 20

MS		Sample ID: 1111055-02BMS				Units: mg/Kg		Analysis Date: 11/3/2011 01:25 PM		
Client ID:		Run ID: HG1_111103A				SeqNo: 1805733		Prep Date: 11/2/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1482 0.017 0.1409 0.001573 104 75-125 0

MSD		Sample ID: 1111055-02BMSD				Units: mg/Kg		Analysis Date: 11/3/2011 01:27 PM		
Client ID:		Run ID: HG1_111103A				SeqNo: 1805734		Prep Date: 11/2/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1491 0.017 0.1452 0.001573 102 75-125 0.1482 0.599 35

The following samples were analyzed in this batch:

1111066-01B

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37086** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 01:35 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805872		Prep Date: 11/2/2011		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	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 01:40 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805873		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.219	0.50	5	0	84.4	80-120	0			
Barium	4.283	0.50	5	0	85.7	80-120	0			
Cadmium	4.552	0.20	5	0	91	80-120	0			
Chromium	4.311	0.50	5	0	86.2	80-120	0			
Copper	4.364	0.50	5	0	87.3	80-120	0			
Lead	4.319	0.50	5	0	86.4	80-120	0			
Nickel	4.377	0.50	5	0	87.5	80-120	0			
Selenium	4.056	0.50	5	0	81.1	80-120	0			
Zinc	4.374	1.0	5	0	87.5	80-120	0			

LCS		Sample ID: LCS-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 02:54 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805884		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	4.012	0.50	5	0	80.2	80-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37086** Instrument ID **ICPMS1** Method: **SW6020A**

LCSD		Sample ID: LCSD-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 01:46 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805874		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.523	0.50	5	0	90.5	80-120	4.33	4.36	20	
Barium	4.52	0.50	5	0	90.4	80-120	4.669	3.24	20	
Cadmium	4.848	0.20	5	0	97	80-120	4.795	1.1	20	
Chromium	4.583	0.50	5	0	91.7	80-120	4.428	3.44	20	
Copper	4.869	0.50	5	0	97.4	80-120	4.601	5.66	20	
Lead	4.645	0.50	5	0	92.9	80-120	4.565	1.74	20	
Nickel	4.654	0.50	5	0	93.1	80-120	4.428	4.98	20	
Selenium	4.434	0.50	5	0	88.7	80-120	4.303	3	20	
Silver	4.093	0.50	5	0	81.9	80-120	4.012	2	20	
Zinc	4.772	1.0	5	0	95.4	80-120	4.59	3.89	20	

MS		Sample ID: 1111055-02BMS				Units: mg/Kg		Analysis Date: 11/3/2011 01:56 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805876		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.534	0.80	8	0.7559	84.7	80-120	0			
Barium	13.04	0.80	8	6.206	85.4	80-120	0			
Cadmium	7.374	0.32	8	0.02514	91.9	80-120	0			
Chromium	13.19	0.80	8	4.449	109	80-120	0			
Copper	9.734	0.80	8	2.927	85.1	80-120	0			
Lead	8.701	0.80	8	1.352	91.9	80-120	0			
Nickel	9.648	0.80	8	2.859	84.9	80-120	0			
Selenium	6.624	0.80	8	0.08396	81.8	80-120	0			
Silver	5.666	0.80	8	0.001869	70.8	80-120	0			S
Zinc	12.82	1.6	8	7.04	72.2	80-120	0			S

MSD		Sample ID: 1111055-02BMSD				Units: mg/Kg		Analysis Date: 11/3/2011 02:01 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805877		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.447	0.79	7.924	0.7559	84.4	80-120	7.534	1.17	25	
Barium	14.33	0.79	7.924	6.206	102	80-120	13.04	9.44	25	
Cadmium	7.258	0.32	7.924	0.02514	91.3	80-120	7.374	1.59	25	
Chromium	10.6	0.79	7.924	4.449	77.7	80-120	13.19	21.8	25	S
Copper	9.087	0.79	7.924	2.927	77.7	80-120	9.734	6.88	25	S
Lead	8.588	0.79	7.924	1.352	91.3	80-120	8.701	1.31	25	
Nickel	9.431	0.79	7.924	2.859	82.9	80-120	9.648	2.27	25	
Selenium	6.536	0.79	7.924	0.08396	81.4	80-120	6.624	1.34	25	
Silver	5.583	0.79	7.924	0.001869	70.4	80-120	5.666	1.47	25	S
Zinc	12.99	1.6	7.924	7.04	75	80-120	12.82	1.29	25	S

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37086** Instrument ID **ICPMS1** Method: **SW6020A**

The following samples were analyzed in this batch:

1111066-01B	1111066-02A	1111066-03A
1111066-04A		

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37090** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-37090-37090				Units: µg/Kg		Analysis Date: 11/3/2011 10:34 AM		
Client ID:		Run ID: SVMS5_111103A				SeqNo: 1805577		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	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								
Surr: 2,4,6-Tribromophenol	1286	0	1667	0	77.2	34-140	0			
Surr: 2-Fluorobiphenyl	1352	0	1667	0	81.1	12-100	0			
Surr: 2-Fluorophenol	1487	0	1667	0	89.2	33-117	0			
Surr: 4-Terphenyl-d14	1831	0	1667	0	110	25-137	0			
Surr: Nitrobenzene-d5	1426	0	1667	0	85.6	37-107	0			
Surr: Phenol-d6	1523	0	1667	0	91.4	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37090** Instrument ID **SVMS5** Method: **SW8270**

LCS		Sample ID: SLCSS1-37090-37090				Units: µg/Kg		Analysis Date: 11/3/2011 11:10 AM		
Client ID:		Run ID: SVMS5_111103A				SeqNo: 1805578		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1016	30	1333	0	76.2	45-110	0			
Anthracene	1036	30	1333	0	77.7	55-105	0			
Benzo(a)anthracene	1085	30	1333	0	81.4	50-110	0			
Benzo(a)pyrene	1106	30	1333	0	83	50-110	0			
Benzo(b)fluoranthene	1069	30	1333	0	80.2	45-115	0			
Benzo(g,h,i)perylene	1192	30	1333	0	89.4	40-125	0			
Benzo(k)fluoranthene	1302	30	1333	0	97.6	45-115	0			
Chrysene	1054	30	1333	0	79.1	55-110	0			
Dibenzo(a,h)anthracene	1200	30	1333	0	90	40-125	0			
Fluoranthene	1123	30	1333	0	84.3	55-115	0			
Fluorene	1087	30	1333	0	81.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1188	30	1333	0	89.1	40-120	0			
Naphthalene	996.3	30	1333	0	74.7	40-105	0			
Pyrene	1101	30	1333	0	82.6	45-125	0			
Surr: 2,4,6-Tribromophenol	1397	0	1667	0	83.8	34-140	0			
Surr: 2-Fluorobiphenyl	1218	0	1667	0	73.1	12-100	0			
Surr: 2-Fluorophenol	1250	0	1667	0	75	33-117	0			
Surr: 4-Terphenyl-d14	1457	0	1667	0	87.4	25-137	0			
Surr: Nitrobenzene-d5	1290	0	1667	0	77.4	37-107	0			
Surr: Phenol-d6	1264	0	1667	0	75.8	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37090** Instrument ID **SVMS5** Method: **SW8270**

LCSD				Sample ID: SLCSDS1-37090-37090			Units: µg/Kg		Analysis Date: 11/3/2011 11:46 AM	
Client ID:				Run ID: SVMS5_111103A			SeqNo: 1805579		Prep Date: 11/3/2011	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1137	30	1333	0	85.3	45-110	1016	11.2	25	
Anthracene	1126	30	1333	0	84.5	55-105	1036	8.39	25	
Benzo(a)anthracene	1196	30	1333	0	89.7	50-110	1085	9.7	25	
Benzo(a)pyrene	1205	30	1333	0	90.4	50-110	1106	8.57	25	
Benzo(b)fluoranthene	1239	30	1333	0	92.9	45-115	1069	14.7	25	
Benzo(g,h,i)perylene	1285	30	1333	0	96.4	40-125	1192	7.54	25	
Benzo(k)fluoranthene	1290	30	1333	0	96.7	45-115	1302	0.926	25	
Chrysene	1106	30	1333	0	83	55-110	1054	4.78	25	
Dibenzo(a,h)anthracene	1309	30	1333	0	98.2	40-125	1200	8.69	25	
Fluoranthene	1225	30	1333	0	91.9	55-115	1123	8.63	25	
Fluorene	1202	30	1333	0	90.1	50-110	1087	9.99	25	
Indeno(1,2,3-cd)pyrene	1288	30	1333	0	96.6	40-120	1188	8.05	25	
Naphthalene	1108	30	1333	0	83.1	40-105	996.3	10.6	25	
Pyrene	1192	30	1333	0	89.4	45-125	1101	7.88	25	
Surr: 2,4,6-Tribromophenol	1491	0	1667	0	89.4	34-140	1397	6.51	40	
Surr: 2-Fluorobiphenyl	1354	0	1667	0	81.2	12-100	1218	10.6	40	
Surr: 2-Fluorophenol	1416	0	1667	0	85	33-117	1250	12.5	40	
Surr: 4-Terphenyl-d14	1559	0	1667	0	93.6	25-137	1457	6.79	40	
Surr: Nitrobenzene-d5	1462	0	1667	0	87.7	37-107	1290	12.5	40	
Surr: Phenol-d6	1381	0	1667	0	82.9	40-106	1264	8.9	40	

The following samples were analyzed in this batch: | 1111066-01B |

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97163** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW2-111102-R97163				Units: µg/L		Analysis Date: 11/2/2011 10:57 PM		
Client ID:		Run ID: VMS6_111102A				SeqNo: 1805525		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	102.2	0	100	0	102	70-120	0			
Surr: 4-Bromofluorobenzene	97.87	0	100	0	97.9	75-120	0			
Surr: Dibromofluoromethane	101	0	100	0	101	85-115	0			
Surr: Toluene-d8	99.49	0	100	0	99.5	85-120	0			

LCS		Sample ID: VLCSW1-111102-R97163				Units: µg/L		Analysis Date: 11/2/2011 09:43 PM		
Client ID:		Run ID: VMS6_111102A				SeqNo: 1805523		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.22	1.0	20	0	106	80-120	0			
Ethylbenzene	21.43	1.0	20	0	107	75-125	0			
m,p-Xylene	43.16	2.0	40	0	108	75-130	0			
o-Xylene	21.05	1.0	20	0	105	80-120	0			
Toluene	21.56	1.0	20	0	108	75-120	0			
Xylenes, Total	64.21	3.0	60	0	107	75-130	0			
Surr: 1,2-Dichloroethane-d4	100.7	0	100	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	100.4	0	100	0	100	75-120	0			
Surr: Dibromofluoromethane	103.4	0	100	0	103	85-115	0			
Surr: Toluene-d8	100.4	0	100	0	100	85-120	0			

LCSD		Sample ID: VLCSW1-111102-R97163				Units: µg/L		Analysis Date: 11/2/2011 10:07 PM		
Client ID:		Run ID: VMS6_111102A				SeqNo: 1805524		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.48	1.0	20	0	112	80-120	21.22	5.77	30	
Ethylbenzene	22.5	1.0	20	0	112	75-125	21.43	4.87	30	
m,p-Xylene	45.58	2.0	40	0	114	75-130	43.16	5.45	30	
o-Xylene	22.27	1.0	20	0	111	80-120	21.05	5.63	30	
Toluene	22.67	1.0	20	0	113	75-120	21.56	5.02	30	
Xylenes, Total	67.85	3.0	60	0	113	75-130	64.21	5.51	30	
Surr: 1,2-Dichloroethane-d4	101.1	0	100	0	101	70-120	100.7	0.327	30	
Surr: 4-Bromofluorobenzene	99.53	0	100	0	99.5	75-120	100.4	0.88	30	
Surr: Dibromofluoromethane	103	0	100	0	103	85-115	103.4	0.329	30	
Surr: Toluene-d8	100.2	0	100	0	100	85-120	100.4	0.189	30	

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97163** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1110959-01A MS				Units: µg/L		Analysis Date: 11/3/2011 07:41 AM	
Client ID:			Run ID: VMS6_111102A			SeqNo: 1805538		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	23.18	1.0	20	0	116	80-120	0				
Ethylbenzene	22.12	1.0	20	0	111	75-125	0				
m,p-Xylene	45.17	2.0	40	0	113	75-130	0				
o-Xylene	21.77	1.0	20	0	109	80-120	0				
Toluene	22.61	1.0	20	0	113	75-120	0				
Xylenes, Total	66.94	3.0	60	0	112	75-130	0				
Surr: 1,2-Dichloroethane-d4	104	0	100	0	104	70-120	0				
Surr: 4-Bromofluorobenzene	100.2	0	100	0	100	75-120	0				
Surr: Dibromofluoromethane	103.8	0	100	0	104	85-115	0				
Surr: Toluene-d8	99.18	0	100	0	99.2	85-120	0				

MSD				Sample ID: 1110959-01A MSD				Units: µg/L			Analysis Date: 11/3/2011 08:06 AM			
Client ID:				Run ID: VMS6_111102A				SeqNo: 1805539			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	22.88	1.0	20	0	114	80-120	23.18	1.3	30					
Ethylbenzene	21.95	1.0	20	0	110	75-125	22.12	0.771	30					
m,p-Xylene	44.48	2.0	40	0	111	75-130	45.17	1.54	30					
o-Xylene	21.81	1.0	20	0	109	80-120	21.77	0.184	30					
Toluene	22.49	1.0	20	0	112	75-120	22.61	0.532	30					
Xylenes, Total	66.29	3.0	60	0	110	75-130	66.94	0.976	30					
Surr: 1,2-Dichloroethane-d4	103.7	0	100	0	104	70-120	104	0.327	30					
Surr: 4-Bromofluorobenzene	98.84	0	100	0	98.8	75-120	100.2	1.38	30					
Surr: Dibromofluoromethane	104.2	0	100	0	104	85-115	103.8	0.327	30					
Surr: Toluene-d8	99.76	0	100	0	99.8	85-120	99.18	0.583	30					

The following samples were analyzed in this batch:

1111066-01A

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37147** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-37147-37147				Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:		Run ID: WETCHEM_1111030				SeqNo: 1806147		Prep Date: 11/3/2011		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-37147-37147				Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:		Run ID: WETCHEM_1111030				SeqNo: 1806145		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.972 0.50 2 0 98.6 75-110 0

LCSD		Sample ID: LCSD-37147-37147				Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:		Run ID: WETCHEM_1111030				SeqNo: 1806146		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.924 0.50 2 0 96.2 75-110 1.972 2.46 20

MS		Sample ID: 1111083-01B MS				Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:		Run ID: WETCHEM_1111030				SeqNo: 1806143		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.7448 0.50 1.991 0 37.4 60-130 0 S

MSD		Sample ID: 1111083-01B MSD				Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:		Run ID: WETCHEM_1111030				SeqNo: 1806144		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.7797 0.49 1.949 0 40 60-130 0.7448 4.59 30 S

The following samples were analyzed in this batch:

1111066-01B

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97104** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS		Sample ID: LCS-R97104-R97104				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804045		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.43 0 4.4 0 101 90-110 0

LCS		Sample ID: LCS-R97104-R97104				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804048		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.43 0 4.4 0 101 90-110 0

DUP		Sample ID: 1111061-01B DUP				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804047		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.3 0 0 0 0 0-0 7.3 0 20

DUP		Sample ID: 1111041-01A DUP				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804050		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.77 0 0 0 0 0-0 7.77 0 20

DUP		Sample ID: 1111055-05B DUP				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804061		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.46 0 0 0 0 0-0 8.46 0 20

The following samples were analyzed in this batch:

1111066-01B 1111066-02A

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

Client: HRL Compliance Solutions
Work Order: 1111066
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97156** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R97156				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805320			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-R97156				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805319			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: 1111043-01ADUP				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805298			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 13.55 0.050 0 0 0 0-0 13.9 2.55 20

DUP		Sample ID: 1111043-05ADUP				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805303			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 14.87 0.050 0 0 0 0-0 14.28 4.05 20

The following samples were analyzed in this batch:

1111066-01B	1111066-02A	1111066-03A
1111066-04A		

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

Form 202r8

WORKORDER
#

1111066

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;"> <p>4.42</p>  </div>	QC PACKAGE (check below)	
	x	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)
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		DANIEL PINESGAR	10/31/2011	1700
RECEIVED BY		Diane C Shafer	11/2/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

**Subcontractor:**A & L Great Lakes Agricultural Lab
3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Ft. Wayne, IN 46808

Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: **02-Nov-11**COC ID: **3272**Due Date: **03-Nov-11****Environmental**

Salesperson

Debbie Fazio

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	20-122011148	Project Name	1111066	A	Subcontracted Analyses (SUBCONTRACT) SAR-EC												
Work Order		Project Number		B													
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C													
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D													
Address	3352 128th Avenue	Address	3352 128th Avenue	E													
				F													
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G													
Phone	(616) 399-6070	Phone	(616) 399-6070	H													
Fax	(616) 399-6185	Fax	(616) 399-6185	I													
eMail Address	ann.preston@alsglobal.com	eMail CC		J													
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J				
1111066-01C	Soil	27/Oct/2011 14:50	(1) MISC	X													
1111066-02B	Soil	27/Oct/2011 15:00	(1) MISC	X													

Comments:Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 02-Nov-11 10:00

Work Order: 1111066

Received by: DS

Checklist completed by *Diane Shaw* 02-Nov-11
eSignature Date

Reviewed by: *Alex Csaszar* 02-Nov-11
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>4.4 c</u>		
Cooler(s)/Kit(s):			
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:



07-Nov-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Antero Valley Farms J Pad Prod. W. Release 11-288**

Work Order: **1111065**

Dear Mark,

ALS Environmental received 3 samples on 02-Nov-2011 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 31.

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: IL100452

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 The ALS logo, which is a stylized blue triangle with a yellow flame inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Antero Valley Farms J Pad Prod. W. Release 11-288
Work Order: 1111065

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>
1111065-01	Spill Area East	Soil		10/28/2011 12:10	11/2/2011 10:00	<input type="checkbox"/>
1111065-02	Spill Area North	Soil		10/28/2011 11:50	11/2/2011 10:00	<input type="checkbox"/>
1111065-03	Off Site Sample	Soil		10/31/2011 11:50	11/2/2011 10:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions
Project: Antero Valley Farms J Pad Prod. W. Release 11-288
Work Order: 1111065

Case Narrative

Batch 37147 MS/MSD data for Hexavalent Chromium is not related to this project's samples.

Batch 37086 MS/MSD data for Metals is not related to this project's samples.

Client: HRL Compliance Solutions
Project: Antero Valley Farms J Pad Prod. W. Release 11-288
WorkOrder: 1111065

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 as noted	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111065

Sample ID: Spill Area East

Lab ID: 1111065-01

Collection Date: 10/28/2011 12:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	10		SW8015M		Prep Date: 11/3/2011	Analyst: RM
<i>Surr: 4-Terphenyl-d14</i>	<i>64.7</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	<i>11/3/2011 12:17 PM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	26		SW8015			Analyst: JD
<i>Surr: Toluene-d8</i>	<i>102</i>		<i>50-150</i>	<i>%REC</i>	<i>100</i>	<i>11/3/2011 07:41 AM</i>
MERCURY BY CVAA						
Mercury	ND		SW7471	mg/Kg-dry	Prep Date: 11/2/2011	Analyst: LR
			0.023		1	11/3/2011 01:42 PM
METALS BY ICP-MS						
Arsenic	1.8		SW6020A	mg/Kg-dry	Prep Date: 11/2/2011	Analyst: CES
Barium	140		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Cadmium	ND		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Chromium	7.8		0.31	mg/Kg-dry	2	11/3/2011 02:59 PM
Copper	6.7		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Lead	7.1		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Nickel	8.6		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Selenium	ND		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Silver	ND		0.78	mg/Kg-dry	2	11/3/2011 02:59 PM
Zinc	42		1.6	mg/Kg-dry	2	11/3/2011 02:59 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 11/5/11		SUBCONTRACT	as noted	1	Analyst: A&LGL
						11/5/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270	µg/Kg-dry	Prep Date: 11/3/2011	Analyst: JJ
Anthracene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Benzo(a)anthracene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Benzo(a)pyrene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Benzo(b)fluoranthene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Benzo(g,h,i)perylene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Benzo(k)fluoranthene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Chrysene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Dibenzo(a,h)anthracene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Fluoranthene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Fluorene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Indeno(1,2,3-cd)pyrene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Naphthalene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
Pyrene	ND		34	µg/Kg-dry	1	11/3/2011 12:59 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>75.4</i>		<i>34-140</i>	<i>%REC</i>	<i>1</i>	<i>11/3/2011 12:59 PM</i>

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111065

Sample ID: Spill Area East

Lab ID: 1111065-01

Collection Date: 10/28/2011 12:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	61.9		12-100	%REC	1	11/3/2011 12:59 PM
<i>Surr: 2-Fluorophenol</i>	79.8		33-117	%REC	1	11/3/2011 12:59 PM
<i>Surr: 4-Terphenyl-d14</i>	86.6		25-137	%REC	1	11/3/2011 12:59 PM
<i>Surr: Nitrobenzene-d5</i>	74.7		37-107	%REC	1	11/3/2011 12:59 PM
<i>Surr: Phenol-d6</i>	83.1		40-106	%REC	1	11/3/2011 12:59 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		120	µg/Kg-dry	100	11/3/2011 06:01 AM
Ethylbenzene	ND		230	µg/Kg-dry	100	11/3/2011 06:01 AM
m,p-Xylene	ND		230	µg/Kg-dry	100	11/3/2011 06:01 AM
o-Xylene	ND		120	µg/Kg-dry	100	11/3/2011 06:01 AM
Toluene	ND		180	µg/Kg-dry	100	11/3/2011 06:01 AM
Xylenes, Total	ND		350	µg/Kg-dry	100	11/3/2011 06:01 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	106		70-120	%REC	100	11/3/2011 06:01 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.9		75-120	%REC	100	11/3/2011 06:01 AM
<i>Surr: Dibromofluoromethane</i>	98.4		85-115	%REC	100	11/3/2011 06:01 AM
<i>Surr: Toluene-d8</i>	100		85-115	%REC	100	11/3/2011 06:01 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	7.8		0.58	mg/Kg-dry	1	11/3/2011 05:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 11/3/2011	Analyst: MB
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	11/3/2011 04:30 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	14		0.050	% of sample	1	11/2/2011 02:47 PM
PH			SW9045D			Analyst: JJG
pH	8.65			s.u.	1	11/2/2011 08:40 AM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111065

Sample ID: Spill Area North

Lab ID: 1111065-02

Collection Date: 10/28/2011 11:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	11		SW8015M		Prep Date: 11/3/2011	Analyst: RM
			4.8	mg/Kg-dry	1	11/3/2011 12:17 PM
Surr: 4-Terphenyl-d14	83.9		39-115	%REC	1	11/3/2011 12:17 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	10		SW8015			Analyst: JD
			5.9	mg/Kg-dry	100	11/3/2011 08:06 AM
Surr: Toluene-d8	102		50-150	%REC	100	11/3/2011 08:06 AM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 11/2/2011	Analyst: LR
			0.022	mg/Kg-dry	1	11/3/2011 01:45 PM
METALS BY ICP-MS						
Arsenic	1.6		SW6020A		Prep Date: 11/2/2011	Analyst: CES
			1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Barium	88		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Cadmium	ND		0.42	mg/Kg-dry	2	11/3/2011 03:05 PM
Chromium	6.7		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Copper	6.4		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Lead	7.0		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Nickel	6.5		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Selenium	ND		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Silver	ND		1.1	mg/Kg-dry	2	11/3/2011 03:05 PM
Zinc	25		2.1	mg/Kg-dry	2	11/3/2011 03:05 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses		Rcvd 11/5/11	SUBCONTRACT			Analyst: A&LGL
			as noted		1	11/5/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 11/3/2011	Analyst: JJ
			35	µg/Kg-dry	1	11/3/2011 01:35 PM
Anthracene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Benzo(a)anthracene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Benzo(a)pyrene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Benzo(b)fluoranthene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Benzo(g,h,i)perylene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Benzo(k)fluoranthene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Chrysene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Dibenzo(a,h)anthracene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Fluoranthene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Fluorene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Indeno(1,2,3-cd)pyrene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Naphthalene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Pyrene	ND		35	µg/Kg-dry	1	11/3/2011 01:35 PM
Surr: 2,4,6-Tribromophenol	81.5		34-140	%REC	1	11/3/2011 01:35 PM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111065

Sample ID: Spill Area North

Lab ID: 1111065-02

Collection Date: 10/28/2011 11:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	73.8		12-100	%REC	1	11/3/2011 01:35 PM
<i>Surr: 2-Fluorophenol</i>	83.8		33-117	%REC	1	11/3/2011 01:35 PM
<i>Surr: 4-Terphenyl-d14</i>	95.5		25-137	%REC	1	11/3/2011 01:35 PM
<i>Surr: Nitrobenzene-d5</i>	79.2		37-107	%REC	1	11/3/2011 01:35 PM
<i>Surr: Phenol-d6</i>	87.0		40-106	%REC	1	11/3/2011 01:35 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		120	µg/Kg-dry	100	11/3/2011 06:26 AM
Ethylbenzene	ND		230	µg/Kg-dry	100	11/3/2011 06:26 AM
m,p-Xylene	ND		230	µg/Kg-dry	100	11/3/2011 06:26 AM
o-Xylene	ND		120	µg/Kg-dry	100	11/3/2011 06:26 AM
Toluene	ND		180	µg/Kg-dry	100	11/3/2011 06:26 AM
Xylenes, Total	ND		350	µg/Kg-dry	100	11/3/2011 06:26 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	105		70-120	%REC	100	11/3/2011 06:26 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.0		75-120	%REC	100	11/3/2011 06:26 AM
<i>Surr: Dibromofluoromethane</i>	96.9		85-115	%REC	100	11/3/2011 06:26 AM
<i>Surr: Toluene-d8</i>	101		85-115	%REC	100	11/3/2011 06:26 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	6.7		0.59	mg/Kg-dry	1	11/3/2011 05:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 11/3/2011	Analyst: MB
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	11/3/2011 04:30 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	15		0.050	% of sample	1	11/2/2011 01:11 PM
PH			SW9045D			Analyst: JJG
pH	8.96			s.u.	1	11/2/2011 08:30 AM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111065

Sample ID: Off Site Sample

Lab ID: 1111065-03

Collection Date: 10/31/2011 11:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	6.1		SW8015M		Prep Date: 11/3/2011	Analyst: RM
			5.2	mg/Kg-dry	1	11/3/2011 12:39 PM
Surr: 4-Terphenyl-d14	66.0		39-115	%REC	1	11/3/2011 12:39 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: JD
			6.4	mg/Kg-dry	100	11/3/2011 08:31 AM
Surr: Toluene-d8	99.1		50-150	%REC	100	11/3/2011 08:31 AM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 11/2/2011	Analyst: LR
			0.027	mg/Kg-dry	1	11/3/2011 01:47 PM
METALS BY ICP-MS						
Arsenic	3.3		SW6020A		Prep Date: 11/2/2011	Analyst: CES
			0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Barium	160		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Cadmium	ND		0.36	mg/Kg-dry	2	11/3/2011 03:10 PM
Chromium	15		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Copper	10		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Lead	11		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Nickel	12		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Selenium	ND		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Silver	ND		0.90	mg/Kg-dry	2	11/3/2011 03:10 PM
Zinc	48		1.8	mg/Kg-dry	2	11/3/2011 03:10 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses		Rcvd 11/5/11	SUBCONTRACT			Analyst: A&LGL
			as noted		1	11/5/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
SW8270					Prep Date: 11/3/2011	Analyst: JJ
Acenaphthene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Anthracene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Chrysene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Fluoranthene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Fluorene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Naphthalene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Pyrene	ND		37	µg/Kg-dry	1	11/3/2011 02:12 PM
Surr: 2,4,6-Tribromophenol	75.4		34-140	%REC	1	11/3/2011 02:12 PM

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

ALS Group USA, Corp

Date: 07-Nov-11

Client: HRL Compliance Solutions

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Work Order: 1111065

Sample ID: Off Site Sample

Lab ID: 1111065-03

Collection Date: 10/31/2011 11:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	61.0		12-100	%REC	1	11/3/2011 02:12 PM
<i>Surr: 2-Fluorophenol</i>	79.6		33-117	%REC	1	11/3/2011 02:12 PM
<i>Surr: 4-Terphenyl-d14</i>	93.6		25-137	%REC	1	11/3/2011 02:12 PM
<i>Surr: Nitrobenzene-d5</i>	77.8		37-107	%REC	1	11/3/2011 02:12 PM
<i>Surr: Phenol-d6</i>	84.0		40-106	%REC	1	11/3/2011 02:12 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		130	µg/Kg-dry	100	11/3/2011 06:51 AM
Ethylbenzene	ND		260	µg/Kg-dry	100	11/3/2011 06:51 AM
m,p-Xylene	ND		260	µg/Kg-dry	100	11/3/2011 06:51 AM
o-Xylene	ND		130	µg/Kg-dry	100	11/3/2011 06:51 AM
Toluene	ND		190	µg/Kg-dry	100	11/3/2011 06:51 AM
Xylenes, Total	ND		380	µg/Kg-dry	100	11/3/2011 06:51 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	104		70-120	%REC	100	11/3/2011 06:51 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.0		75-120	%REC	100	11/3/2011 06:51 AM
<i>Surr: Dibromofluoromethane</i>	96.9		85-115	%REC	100	11/3/2011 06:51 AM
<i>Surr: Toluene-d8</i>	101		85-115	%REC	100	11/3/2011 06:51 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	15		0.64	mg/Kg-dry	1	11/3/2011 05:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 11/3/2011	Analyst: MB
Chromium, Hexavalent	ND		0.63	mg/Kg-dry	1	11/3/2011 04:30 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	22		0.050	% of sample	1	11/2/2011 01:11 PM
PH			SW9045D			Analyst: JJG
pH	8.68			s.u.	1	11/2/2011 08:30 AM

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

Report Number: F11307-0734

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: 1111065

DATE RECEIVED: 11/03/2011

DATE REPORTED: 11/05/2011

PAGE: 1

P.O. NUMBER: 20-122011146

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
43756	01B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	3.71	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	76	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	22	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1048	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	27.2	-	USDA Handbook 60
43757	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	1.39	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	41	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	11	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1081	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	38.6	-	USDA Handbook 60
43758	03B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.66	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	40	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	20	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	367	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	11.8	-	USDA Handbook 60

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1111065

Project: Antero Valley Farms J Pad Prod. W. Release 11-288

Batch ID: 37092

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-37092-37092				Units: mg/Kg		Analysis Date: 11/3/2011 11:55 AM		
Client ID:		Run ID: GC8_111103A				SeqNo: 1806126		Prep Date: 11/3/2011		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								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.151</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>69</i>	<i>39-115</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-37092-37092				Units: mg/Kg		Analysis Date: 11/3/2011 11:10 AM		
Client ID:		Run ID: GC8_111103A				SeqNo: 1810008		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	161.8	4.2	166.7	0	97.1	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.102</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>66.1</i>	<i>39-115</i>	<i>0</i>			

LCSD		Sample ID: DLCSDS1-37092-37092				Units: mg/Kg		Analysis Date: 11/3/2011 11:10 AM		
Client ID:		Run ID: GC8_111103A				SeqNo: 1810010		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	164.1	4.2	166.7	0	98.5	60-130	161.8	1.43	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.044</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>62.6</i>	<i>39-115</i>	<i>1.102</i>	<i>5.44</i>	<i>30</i>	

The following samples were analyzed in this batch:

1111065-01A	1111065-02A	1111065-03A
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Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97189** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-R97189-R97189				Units: µg/L		Analysis Date: 11/3/2011 01:51 AM		
Client ID:		Run ID: GC10_111103A				SeqNo: 1805947		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								
<i>Surr: Toluene-d8</i>	93.35	0	100	0	93.4	70-130	0			

LCS		Sample ID: LCS-R97189-R97189				Units: µg/L		Analysis Date: 11/3/2011 12:36 PM		
Client ID:		Run ID: GC10_111103A				SeqNo: 1805948		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)	25710	200	25000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	89.25	0	100	0	89.2	70-130	0			

LCSD		Sample ID: LCSD-R97189-R97189				Units: µg/L		Analysis Date: 11/3/2011 01:01 AM		
Client ID:		Run ID: GC10_111103A				SeqNo: 1805946		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)	24860	200	25000	0	99.4	70-130	25710	3.36	30	
<i>Surr: Toluene-d8</i>	90.34	0	100	0	90.3	70-130	89.25	1.21	30	

The following samples were analyzed in this batch:

1111065-01A	1111065-02A	1111065-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37082** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-37082-37082					Units: mg/Kg		Analysis Date: 11/3/2011 01:12 PM		
Client ID:	Run ID: HG1_111103A				SeqNo: 1805727		Prep Date: 11/2/2011		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-37082-37082					Units: mg/Kg		Analysis Date: 11/3/2011 01:14 PM		
Client ID:	Run ID: HG1_111103A				SeqNo: 1805728		Prep Date: 11/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1666 0.020 0.1665 0 100 80-120 0

LCSD	Sample ID: LCSD-37082-37082					Units: mg/Kg		Analysis Date: 11/3/2011 01:16 PM		
Client ID:	Run ID: HG1_111103A				SeqNo: 1805729		Prep Date: 11/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1668 0.020 0.1665 0 100 80-120 0.1666 0.15 20

MS	Sample ID: 1111055-02BMS					Units: mg/Kg		Analysis Date: 11/3/2011 01:25 PM		
Client ID:	Run ID: HG1_111103A				SeqNo: 1805733		Prep Date: 11/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1482 0.017 0.1409 0.001573 104 75-125 0

MSD	Sample ID: 1111055-02BMSD					Units: mg/Kg		Analysis Date: 11/3/2011 01:27 PM		
Client ID:	Run ID: HG1_111103A				SeqNo: 1805734		Prep Date: 11/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1491 0.017 0.1452 0.001573 102 75-125 0.1482 0.599 35

The following samples were analyzed in this batch:

1111065-01A	1111065-02A	1111065-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37086** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 01:35 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805872		Prep Date: 11/2/2011		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	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 01:40 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805873		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.219	0.50	5	0	84.4	80-120	0			
Barium	4.283	0.50	5	0	85.7	80-120	0			
Cadmium	4.552	0.20	5	0	91	80-120	0			
Chromium	4.311	0.50	5	0	86.2	80-120	0			
Copper	4.364	0.50	5	0	87.3	80-120	0			
Lead	4.319	0.50	5	0	86.4	80-120	0			
Nickel	4.377	0.50	5	0	87.5	80-120	0			
Selenium	4.056	0.50	5	0	81.1	80-120	0			
Zinc	4.374	1.0	5	0	87.5	80-120	0			

LCS		Sample ID: LCS-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 02:54 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805884		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	4.012	0.50	5	0	80.2	80-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37086** Instrument ID **ICPMS1** Method: **SW6020A**

LCSD		Sample ID: LCSD-37086-37086				Units: mg/Kg		Analysis Date: 11/3/2011 01:46 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805874		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.523	0.50	5	0	90.5	80-120	4.33	4.36	20	
Barium	4.52	0.50	5	0	90.4	80-120	4.669	3.24	20	
Cadmium	4.848	0.20	5	0	97	80-120	4.795	1.1	20	
Chromium	4.583	0.50	5	0	91.7	80-120	4.428	3.44	20	
Copper	4.869	0.50	5	0	97.4	80-120	4.601	5.66	20	
Lead	4.645	0.50	5	0	92.9	80-120	4.565	1.74	20	
Nickel	4.654	0.50	5	0	93.1	80-120	4.428	4.98	20	
Selenium	4.434	0.50	5	0	88.7	80-120	4.303	3	20	
Silver	4.093	0.50	5	0	81.9	80-120	4.012	2	20	
Zinc	4.772	1.0	5	0	95.4	80-120	4.59	3.89	20	

MS		Sample ID: 1111055-02BMS				Units: mg/Kg		Analysis Date: 11/3/2011 01:56 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805876		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.534	0.80	8	0.7559	84.7	80-120	0			
Barium	13.04	0.80	8	6.206	85.4	80-120	0			
Cadmium	7.374	0.32	8	0.02514	91.9	80-120	0			
Chromium	13.19	0.80	8	4.449	109	80-120	0			
Copper	9.734	0.80	8	2.927	85.1	80-120	0			
Lead	8.701	0.80	8	1.352	91.9	80-120	0			
Nickel	9.648	0.80	8	2.859	84.9	80-120	0			
Selenium	6.624	0.80	8	0.08396	81.8	80-120	0			
Silver	5.666	0.80	8	0.001869	70.8	80-120	0			S
Zinc	12.82	1.6	8	7.04	72.2	80-120	0			S

MSD		Sample ID: 1111055-02BMSD				Units: mg/Kg		Analysis Date: 11/3/2011 02:01 PM		
Client ID:		Run ID: ICPMS1_111103A				SeqNo: 1805877		Prep Date: 11/2/2011		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.447	0.79	7.924	0.7559	84.4	80-120	7.534	1.17	25	
Barium	14.33	0.79	7.924	6.206	102	80-120	13.04	9.44	25	
Cadmium	7.258	0.32	7.924	0.02514	91.3	80-120	7.374	1.59	25	
Chromium	10.6	0.79	7.924	4.449	77.7	80-120	13.19	21.8	25	S
Copper	9.087	0.79	7.924	2.927	77.7	80-120	9.734	6.88	25	S
Lead	8.588	0.79	7.924	1.352	91.3	80-120	8.701	1.31	25	
Nickel	9.431	0.79	7.924	2.859	82.9	80-120	9.648	2.27	25	
Selenium	6.536	0.79	7.924	0.08396	81.4	80-120	6.624	1.34	25	
Silver	5.583	0.79	7.924	0.001869	70.4	80-120	5.666	1.47	25	S
Zinc	12.99	1.6	7.924	7.04	75	80-120	12.82	1.29	25	S

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37086** Instrument ID **ICPMS1** Method: **SW6020A**

The following samples were analyzed in this batch:

1111065-01A	1111065-02A	1111065-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37090** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-37090-37090				Units: µg/Kg		Analysis Date: 11/3/2011 10:34 AM		
Client ID:		Run ID: SVMS5_111103A				SeqNo: 1805577		Prep Date: 11/3/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	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								
Surr: 2,4,6-Tribromophenol	1286	0	1667	0	77.2	34-140	0			
Surr: 2-Fluorobiphenyl	1352	0	1667	0	81.1	12-100	0			
Surr: 2-Fluorophenol	1487	0	1667	0	89.2	33-117	0			
Surr: 4-Terphenyl-d14	1831	0	1667	0	110	25-137	0			
Surr: Nitrobenzene-d5	1426	0	1667	0	85.6	37-107	0			
Surr: Phenol-d6	1523	0	1667	0	91.4	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37090** Instrument ID **SVMS5** Method: **SW8270**

LCS Sample ID: SLCSS1-37090-37090				Units: µg/Kg			Analysis Date: 11/3/2011 11:10 AM			
Client ID:		Run ID: SVMS5_111103A		SeqNo: 1805578		Prep Date: 11/3/2011		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1016	30	1333	0	76.2	45-110	0			
Anthracene	1036	30	1333	0	77.7	55-105	0			
Benzo(a)anthracene	1085	30	1333	0	81.4	50-110	0			
Benzo(a)pyrene	1106	30	1333	0	83	50-110	0			
Benzo(b)fluoranthene	1069	30	1333	0	80.2	45-115	0			
Benzo(g,h,i)perylene	1192	30	1333	0	89.4	40-125	0			
Benzo(k)fluoranthene	1302	30	1333	0	97.6	45-115	0			
Chrysene	1054	30	1333	0	79.1	55-110	0			
Dibenzo(a,h)anthracene	1200	30	1333	0	90	40-125	0			
Fluoranthene	1123	30	1333	0	84.3	55-115	0			
Fluorene	1087	30	1333	0	81.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1188	30	1333	0	89.1	40-120	0			
Naphthalene	996.3	30	1333	0	74.7	40-105	0			
Pyrene	1101	30	1333	0	82.6	45-125	0			
Surr: 2,4,6-Tribromophenol	1397	0	1667	0	83.8	34-140	0			
Surr: 2-Fluorobiphenyl	1218	0	1667	0	73.1	12-100	0			
Surr: 2-Fluorophenol	1250	0	1667	0	75	33-117	0			
Surr: 4-Terphenyl-d14	1457	0	1667	0	87.4	25-137	0			
Surr: Nitrobenzene-d5	1290	0	1667	0	77.4	37-107	0			
Surr: Phenol-d6	1264	0	1667	0	75.8	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37090** Instrument ID **SVMS5** Method: **SW8270**

LCSD				Sample ID: SLCSDS1-37090-37090			Units: µg/Kg		Analysis Date: 11/3/2011 11:46 AM		
Client ID:			Run ID: SVMS5_111103A			SeqNo: 1805579		Prep Date: 11/3/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1137	30	1333	0	85.3	45-110	1016	11.2	25		
Anthracene	1126	30	1333	0	84.5	55-105	1036	8.39	25		
Benzo(a)anthracene	1196	30	1333	0	89.7	50-110	1085	9.7	25		
Benzo(a)pyrene	1205	30	1333	0	90.4	50-110	1106	8.57	25		
Benzo(b)fluoranthene	1239	30	1333	0	92.9	45-115	1069	14.7	25		
Benzo(g,h,i)perylene	1285	30	1333	0	96.4	40-125	1192	7.54	25		
Benzo(k)fluoranthene	1290	30	1333	0	96.7	45-115	1302	0.926	25		
Chrysene	1106	30	1333	0	83	55-110	1054	4.78	25		
Dibenzo(a,h)anthracene	1309	30	1333	0	98.2	40-125	1200	8.69	25		
Fluoranthene	1225	30	1333	0	91.9	55-115	1123	8.63	25		
Fluorene	1202	30	1333	0	90.1	50-110	1087	9.99	25		
Indeno(1,2,3-cd)pyrene	1288	30	1333	0	96.6	40-120	1188	8.05	25		
Naphthalene	1108	30	1333	0	83.1	40-105	996.3	10.6	25		
Pyrene	1192	30	1333	0	89.4	45-125	1101	7.88	25		
Surr: 2,4,6-Tribromophenol	1491	0	1667	0	89.4	34-140	1397	6.51	40		
Surr: 2-Fluorobiphenyl	1354	0	1667	0	81.2	12-100	1218	10.6	40		
Surr: 2-Fluorophenol	1416	0	1667	0	85	33-117	1250	12.5	40		
Surr: 4-Terphenyl-d14	1559	0	1667	0	93.6	25-137	1457	6.79	40		
Surr: Nitrobenzene-d5	1462	0	1667	0	87.7	37-107	1290	12.5	40		
Surr: Phenol-d6	1381	0	1667	0	82.9	40-106	1264	8.9	40		

The following samples were analyzed in this batch: 1111065-01A 1111065-02A 1111065-03A

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97163** Instrument ID **VMS6** Method: **SW8260**

MBLK Sample ID: VBLKW2-111102-R97163				Units: µg/L			Analysis Date: 11/2/2011 10:57 PM			
Client ID:		Run ID: VMS6_111102A		SeqNo: 1805525		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	102.2	0	100	0	102	70-120	0			
Surr: 4-Bromofluorobenzene	97.87	0	100	0	97.9	75-120	0			
Surr: Dibromofluoromethane	101	0	100	0	101	85-115	0			
Surr: Toluene-d8	99.49	0	100	0	99.5	85-120	0			

LCS Sample ID: VLCSW1-111102-R97163				Units: µg/L			Analysis Date: 11/2/2011 09:43 PM			
Client ID:		Run ID: VMS6_111102A		SeqNo: 1805523		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.22	1.0	20	0	106	80-120	0			
Ethylbenzene	21.43	1.0	20	0	107	75-125	0			
m,p-Xylene	43.16	2.0	40	0	108	75-130	0			
o-Xylene	21.05	1.0	20	0	105	80-120	0			
Toluene	21.56	1.0	20	0	108	75-120	0			
Xylenes, Total	64.21	3.0	60	0	107	75-130	0			
Surr: 1,2-Dichloroethane-d4	100.7	0	100	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	100.4	0	100	0	100	75-120	0			
Surr: Dibromofluoromethane	103.4	0	100	0	103	85-115	0			
Surr: Toluene-d8	100.4	0	100	0	100	85-120	0			

LCSD Sample ID: VLCSW1-111102-R97163				Units: µg/L			Analysis Date: 11/2/2011 10:07 PM			
Client ID:		Run ID: VMS6_111102A		SeqNo: 1805524		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.48	1.0	20	0	112	80-120	21.22	5.77	30	
Ethylbenzene	22.5	1.0	20	0	112	75-125	21.43	4.87	30	
m,p-Xylene	45.58	2.0	40	0	114	75-130	43.16	5.45	30	
o-Xylene	22.27	1.0	20	0	111	80-120	21.05	5.63	30	
Toluene	22.67	1.0	20	0	113	75-120	21.56	5.02	30	
Xylenes, Total	67.85	3.0	60	0	113	75-130	64.21	5.51	30	
Surr: 1,2-Dichloroethane-d4	101.1	0	100	0	101	70-120	100.7	0.327	30	
Surr: 4-Bromofluorobenzene	99.53	0	100	0	99.5	75-120	100.4	0.88	30	
Surr: Dibromofluoromethane	103	0	100	0	103	85-115	103.4	0.329	30	
Surr: Toluene-d8	100.2	0	100	0	100	85-120	100.4	0.189	30	

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

Client: HRL Compliance Solutions
 Work Order: 1111065
 Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97163** Instrument ID **VMS6** Method: **SW8260**

MS Sample ID: 1110959-01A MS				Units: µg/L		Analysis Date: 11/3/2011 07:41 AM				
Client ID:		Run ID: VMS6_111102A		SeqNo: 1805538		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.18	1.0	20	0	116	80-120	0			
Ethylbenzene	22.12	1.0	20	0	111	75-125	0			
m,p-Xylene	45.17	2.0	40	0	113	75-130	0			
o-Xylene	21.77	1.0	20	0	109	80-120	0			
Toluene	22.61	1.0	20	0	113	75-120	0			
Xylenes, Total	66.94	3.0	60	0	112	75-130	0			
Surr: 1,2-Dichloroethane-d4	104	0	100	0	104	70-120	0			
Surr: 4-Bromofluorobenzene	100.2	0	100	0	100	75-120	0			
Surr: Dibromofluoromethane	103.8	0	100	0	104	85-115	0			
Surr: Toluene-d8	99.18	0	100	0	99.2	85-120	0			

MSD Sample ID: 1110959-01A MSD				Units: µg/L		Analysis Date: 11/3/2011 08:06 AM				
Client ID:		Run ID: VMS6_111102A		SeqNo: 1805539		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.88	1.0	20	0	114	80-120	23.18	1.3	30	
Ethylbenzene	21.95	1.0	20	0	110	75-125	22.12	0.771	30	
m,p-Xylene	44.48	2.0	40	0	111	75-130	45.17	1.54	30	
o-Xylene	21.81	1.0	20	0	109	80-120	21.77	0.184	30	
Toluene	22.49	1.0	20	0	112	75-120	22.61	0.532	30	
Xylenes, Total	66.29	3.0	60	0	110	75-130	66.94	0.976	30	
Surr: 1,2-Dichloroethane-d4	103.7	0	100	0	104	70-120	104	0.327	30	
Surr: 4-Bromofluorobenzene	98.84	0	100	0	98.8	75-120	100.2	1.38	30	
Surr: Dibromofluoromethane	104.2	0	100	0	104	85-115	103.8	0.327	30	
Surr: Toluene-d8	99.76	0	100	0	99.8	85-120	99.18	0.583	30	

The following samples were analyzed in this batch:

1111065-01A	1111065-02A	1111065-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **37147** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-37147-37147					Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:	Run ID: WETCHEM_1111030				SeqNo: 1806147		Prep Date: 11/3/2011		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-37147-37147					Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:	Run ID: WETCHEM_1111030				SeqNo: 1806145		Prep Date: 11/3/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.972 0.50 2 0 98.6 75-110 0

LCSD	Sample ID: LCSD-37147-37147					Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:	Run ID: WETCHEM_1111030				SeqNo: 1806146		Prep Date: 11/3/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.924 0.50 2 0 96.2 75-110 1.972 2.46 20

MS	Sample ID: 1111083-01B MS					Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:	Run ID: WETCHEM_1111030				SeqNo: 1806143		Prep Date: 11/3/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.7448 0.50 1.991 0 37.4 60-130 0 S

MSD	Sample ID: 1111083-01B MSD					Units: mg/Kg		Analysis Date: 11/3/2011 04:30 PM		
Client ID:	Run ID: WETCHEM_1111030				SeqNo: 1806144		Prep Date: 11/3/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.7797 0.49 1.949 0 40 60-130 0.7448 4.59 30 S

The following samples were analyzed in this batch:

1111065-01A	1111065-02A	1111065-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97104** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS		Sample ID: LCS-R97104-R97104				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804045		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.43 0 4.4 0 101 90-110 0

LCS		Sample ID: LCS-R97104-R97104				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804048		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.43 0 4.4 0 101 90-110 0

DUP		Sample ID: 1111061-01B DUP				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804047		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.3 0 0 0 0 0-0 7.3 0 20

DUP		Sample ID: 1111041-01A DUP				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804050		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.77 0 0 0 0 0-0 7.77 0 20

DUP		Sample ID: 1111055-05B DUP				Units: s.u.		Analysis Date: 11/2/2011 08:30 AM		
Client ID:		Run ID: WETCHEM_111102D				SeqNo: 1804061		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.46 0 0 0 0 0-0 8.46 0 20

The following samples were analyzed in this batch:

1111065-02A 1111065-03A

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97108** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-R97108-R97108				Units: s.u.		Analysis Date: 11/2/2011 08:40 AM		
Client ID:		Run ID: WETCHEM_111102E				SeqNo: 1804176		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	4.32	0	4.4	0	98.2	90-110	0			
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DUP		Sample ID: 1111065-01A DUP				Units: s.u.		Analysis Date: 11/2/2011 08:40 AM		
Client ID: Spill Area East		Run ID: WETCHEM_111102E				SeqNo: 1804178		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	8.65	0	0	0	0	0-0	8.65	0	20	
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DUP		Sample ID: 1111089-01A DUP				Units: s.u.		Analysis Date: 11/2/2011 08:40 AM		
Client ID:		Run ID: WETCHEM_111102E				SeqNo: 1804191		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	7.86	0	0	0	0	0-0	7.86	0	20	
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The following samples were analyzed in this batch:

1111065-01A

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97156** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R97156				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805320			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-R97156				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805319			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: 1111043-01ADUP				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805298			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 13.55 0.050 0 0 0 0-0 13.9 2.55 20

DUP		Sample ID: 1111043-05ADUP				Units: % of sample			Analysis Date: 11/2/2011 01:11 PM		
Client ID:		Run ID: MOIST_111102D				SeqNo: 1805303			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 14.87 0.050 0 0 0 0-0 14.28 4.05 20

The following samples were analyzed in this batch:

1111065-02A 1111065-03A

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

Client: HRL Compliance Solutions
Work Order: 1111065
Project: Antero Valley Farms J Pad Prod. W. Release 11-288

QC BATCH REPORT

Batch ID: **R97158** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R97158				Units: % of sample			Analysis Date: 11/2/2011 02:47 PM		
Client ID:	Run ID: MOIST_111102F				SeqNo: 1805421		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-R97158				Units: % of sample			Analysis Date: 11/2/2011 02:47 PM		
Client ID:	Run ID: MOIST_111102F				SeqNo: 1805419		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: 1111048-12ADUP1				Units: % of sample			Analysis Date: 11/2/2011 02:47 PM		
Client ID:	Run ID: MOIST_111102F				SeqNo: 1805396		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 65.88 0.050 0 0 0 0-0 65.61 0.411 20

DUP	Sample ID: 1111048-12ADUP2				Units: % of sample			Analysis Date: 11/2/2011 02:47 PM		
Client ID:	Run ID: MOIST_111102F				SeqNo: 1805398		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 66.87 0.050 0 0 0 0-0 65.61 1.9 20

DUP	Sample ID: 1111048-16ADUP				Units: % of sample			Analysis Date: 11/2/2011 02:47 PM		
Client ID:	Run ID: MOIST_111102F				SeqNo: 1805408		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 67.11 0.050 0 0 0 0-0 67.79 1.01 20

The following samples were analyzed in this batch:

1111065-01A

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

Chain-of-Custody

Form 202r8

WORKORDER
#

1111065

PAGE

1 of 1


DISPOSAL

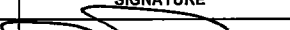

By Lab or Return to Client

[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; font-size: 2em;">4.4' </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		DANIEL PINESAR	10/31/2011	1700
RECEIVED BY		Diane F Shan	10/2/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

**Subcontractor:**A & L Great Lakes Agricultural La
3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Ft. Wayne, IN 46808

Acct #: 91000

CHAIN-OF-CUSTODY RECORDDate: **02-Nov-11**COC ID: **3270**Due Da **03-Nov-11**

Page 1 of 1

Environmental

Salesperson

Debbie Fazio

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	20-122011146	Project Name	1111065	A	Subcontracted Analyses (SUBCONTRACT) SAR-EC										
Work Order		Project Number		B											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C											
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D											
Address	3352 128th Avenue	Address	3352 128th Avenue	E											
				F											
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G											
Phone	(616) 399-6070	Phone	(616) 399-6070	H											
Fax	(616) 399-6185	Fax	(616) 399-6185	I											
eMail Address	ann.preston@alsglobal.com	eMail CC		J											

Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
1111065-01B	Soil	28/Oct/2011 12:10	(1) 8OZGNEAT	X									
1111065-02B	Soil	28/Oct/2011 11:50	(1) 8OZGNEAT	X									
1111065-03B	Soil	31/Oct/2011 11:50	(1) 8OZGNEAT	X									

Comments:Please analyze for SAR-EC. Email results to Ann Preston.

Ann Preston 11/2/11 12:30

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 02-Nov-11 10:00

Work Order: 1111065

Received by: DS

Checklist completed by Diane Shaw 02-Nov-11
eSignature Date

Reviewed by: Ann Preston 03-Nov-11
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>4.4 c</u>		
Cooler(s)/Kit(s):			
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:

VOID SEAL
DATE 10-31-10
SIGNATURE

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

FedEx NEW Package
Express US Airbill

FedEx
Tracking
Number

8769 1479 5772

0200

Form
ID No.

FedEx Retrieval Copy

1 From
Date 10/31/10
Sender's Name
Company
Address
City State ZIP

Sender's FedEx
Account Number

Phone

Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To
Recipient's Name
Company
Address
City State ZIP

Dept./Floor/Suite/Room

Address
Use this line for the HOD (H) for whom address is for continuation of your shipping address

City State ZIP

4 Express Package Service
NOTE: Service order has changed. Please select carefully.

- 06 ☐ FedEx First Overnight
01 ☐ FedEx Priority Overnight
05 ☐ FedEx Standard Overnight

- 49 ☐ NIW FedEx 2Day A.M.
03 ☐ FedEx 2Day
20 ☐ FedEx Express Saver

5 Packaging
Declared value limit \$200.

- 06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☐ Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

☐ No Signature Required
Package may be left without
obtaining a signature for delivery.

10 ☐ Direct Signature
Someone at recipient's address
must sign for delivery. Fee applies.

34 ☐ Indirect Signature
If no one is available at recipient's
address, someone at neighbor's
address may sign for delivery. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.

☐ No 04 ☐ Yes
As per attached
Shipper's Declaration

☐ Yes
Shipper's Declaration
not required.

Dangerous goods by FedEx must be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain receipt
Acct. No.

- 1 ☐ Sender Acct. No. Section 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages Total Weight

Cost to Cash Acct.



8769 1479 5772

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