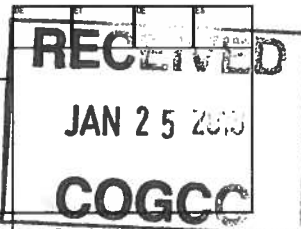


Page 1
FORM
4
Rev 12/05State of Colorado
Oil and Gas Conservation Commission

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.)

1. OGCC Operator Number: 10079	4. Contact Name: Cole Kilstrom	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Antero Resources Piceance Corporation	Phone: 303-357-6709	
3. Address: 1625 17th St STE 300 ATTN: Cole Kilstrom	Fax: 303-357-7315	
City: Denver State: CO Zip: 80202		
5. API Number: 05-045-12082	OGCC Facility ID Number: 284084	Survey Plat
6. Well/Facility Name: Valley Farms D Pad	7. Well/Facility Number: D3	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NENW 15 6S 92W 6		Surface Egmt Diagram
9. County: Garfield	10. Field Name: Mamm Creek	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

Location
ID #
335534

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"/> FNU/SL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location 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
	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	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	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 casing set)
<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

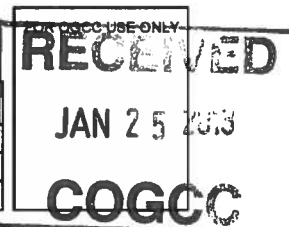
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans 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: Cole Kilstrom
Print Name: Cole KilstromDate: 1/25/2013 Email: ckilstrom@anteroresources.com
Title: ENV SpecialistCOGCC Approved: Paula Giza
CONDITIONS OF APPROVAL IF ANY:Title: FOR Date: 01/29/2013Alex Fischer
Supervisor
Western Region



TECHNICAL INFORMATION PAGE



1. OGCC Operator Number: 10079 API Number: 05-045-12082
2. Name of Operator: Antero Resources Piceance OGCC Facility ID # 284084
3. Well/Facility Name: Valley Farms D Pad Well/Facility Number: D3
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW 15 6S 92W 6

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**

Summary of Corrective Actions and Request for Spill Report Closure

On June 24, 2010, a gas bubble escaped in the water pipeline due to an open separator water pump valve causing an increase in pressure. Over pressure caused flowback water to overflow two frac tanks onsite. The spill was contained within the berm and vacuum trucks were dispatched to the location to recover the flowback water upon the surface. Antero further excavated the impacted soil to approximately one inch depth.

COGCC Spill Report Form 19 # 2608108 stated that Antero would conduct further excavation if the confirmation samples showed contamination exceeding Table 910-1 standards.

The impacted area was around the frac tanks identified in the submitted Form 19 and also identified on the attached Confirmation Sample Location Map. Confirmation sampling was taken at two points around the frac tanks on December 3, 2012. The sampling data, also attached here, demonstrate that the spill site is in compliance with COGCC Table 910-1 standards.

Because Antero has demonstrated that the Valley Farms D3 well is in compliance with COGCC Table 910-1 standards, Antero respectfully requests final COGCC closure of Spill Report # 2608108 in accordance with Rule 909(e).

Based on review of information presented on data presented it appears that no further action is necessary at this time, and COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be significantly impacted, then further investigation and/or remediation activities may be required at the site.



17-Dec-2012

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

Re: **Antero Valley Farms D-Pad 10-292 12/3/12**

Work Order: **1212347**

Dear Mark,

ALS Environmental received 2 samples on 11-Dec-2012 09:30 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 23.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
Work Order: 1212347

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>
1212347-01	Sample Pt. 1	Soil		12/3/2012 11:00	12/11/2012 09:30	<input type="checkbox"/>
1212347-02	Sample Pt. 2	Soil		12/3/2012 11:10	12/11/2012 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
Work Order: 1212347

Case Narrative

Batch 45310 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 45419 Sample Pt. 2 MS recovery for Selenium was below control limits. Both the MDS recovery and RPD met quality control criteria. No data requires qualification for Selenium. The MS/ MSD recovery for Barium and MS recovery for Zinc were outside of the control limits, however, the results in the parent sample were greater than 4x the spiked amount. No qualification is required for Barium and Zinc.

Batch R113780 MS/MSD data for GRO is not related to this project's samples. No data requires qualification.

Batch R113816 samples 1212347-01 and 1212347-02 for % Moisture were received after the hold time had expired. Results should be considered estimated.

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
WorkOrder: 1212347

QUALIFIERS, ACRONYMS, UNITS

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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 17-Dec-12

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
Sample ID: Sample Pt. 1
Collection Date: 12/3/2012 11:00 AM

Work Order: 1212347
Lab ID: 1212347-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 12/11/2012	Analyst: CW
DRO (C10-C28)	200		4.3	mg/Kg-dry	1	12/12/2012 01:41 AM
Surr: 4-Terphenyl-d14	285	S	39-115	%REC	1	12/12/2012 01:41 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	ND		2.6	mg/Kg-dry	50	12/11/2012 02:46 PM
Surr: Toluene-d8	102		50-150	%REC	50	12/11/2012 02:46 PM
MERCURY BY CVAA						
			SW7471		Prep Date: 12/14/2012	Analyst: LR
Mercury	ND		0.018	mg/Kg-dry	1	12/14/2012 02:25 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 12/14/2012	Analyst: CES
Arsenic	1.8		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Barium	530		6.8	mg/Kg-dry	20	12/14/2012 10:43 PM
Cadmium	ND		0.27	mg/Kg-dry	2	12/14/2012 07:57 PM
Chromium	7.1		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Copper	6.6		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Lead	6.2		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Nickel	7.1		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Selenium	0.78		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Silver	ND		0.68	mg/Kg-dry	2	12/14/2012 07:57 PM
Zinc	25		1.4	mg/Kg-dry	2	12/14/2012 07:57 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 12/11/2012	Analyst: RM
Acenaphthene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Anthracene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Benzo(a)anthracene	ND		17	µg/Kg-dry	1	12/11/2012 07:37 PM
Benzo(a)pyrene	ND		17	µg/Kg-dry	1	12/11/2012 07:37 PM
Benzo(b)fluoranthene	ND		18	µg/Kg-dry	1	12/11/2012 07:37 PM
Benzo(g,h,i)perylene	ND		29	µg/Kg-dry	1	12/11/2012 07:37 PM
Benzo(k)fluoranthene	ND		18	µg/Kg-dry	1	12/11/2012 07:37 PM
Chrysene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Dibenzo(a,h)anthracene	ND		18	µg/Kg-dry	1	12/11/2012 07:37 PM
Fluoranthene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Fluorene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	12/11/2012 07:37 PM
Naphthalene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Pyrene	ND		15	µg/Kg-dry	1	12/11/2012 07:37 PM
Surr: 2-Fluorobiphenyl	78.1		12-100	%REC	1	12/11/2012 07:37 PM
Surr: 4-Terphenyl-d14	99.5		25-137	%REC	1	12/11/2012 07:37 PM
Surr: Nitrobenzene-d5	80.0		37-107	%REC	1	12/11/2012 07:37 PM

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

ALS Group USA, Corp

Date: 17-Dec-12

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
Sample ID: Sample Pt. 1
Collection Date: 12/3/2012 11:00 AM

Work Order: 1212347
Lab ID: 1212347-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 12/11/2012	Analyst: AK
Benzene	ND		31	µg/Kg-dry	1	12/11/2012 04:29 PM
Ethylbenzene	ND		31	µg/Kg-dry	1	12/11/2012 04:29 PM
m,p-Xylene	ND		62	µg/Kg-dry	1	12/11/2012 04:29 PM
o-Xylene	ND		31	µg/Kg-dry	1	12/11/2012 04:29 PM
Toluene	ND		31	µg/Kg-dry	1	12/11/2012 04:29 PM
Xylenes, Total	ND		93	µg/Kg-dry	1	12/11/2012 04:29 PM
Surr: 1,2-Dichloroethane-d4	89.4		70-130	%REC	1	12/11/2012 04:29 PM
Surr: 4-Bromofluorobenzene	98.4		70-130	%REC	1	12/11/2012 04:29 PM
Surr: Dibromofluoromethane	92.1		70-130	%REC	1	12/11/2012 04:29 PM
Surr: Toluene-d8	96.0		70-130	%REC	1	12/11/2012 04:29 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	7.1		0.52	mg/Kg-dry	1	12/17/2012 04:24 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 12/13/2012	Analyst: JB
Chromium, Hexavalent	ND		0.53	mg/Kg-dry	1	12/14/2012 10:30 AM
MOISTURE			A2540 G			Analyst: LR
Moisture	3.6	H	0.050	% of sample	1	12/11/2012 12:30 PM

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

ALS Group USA, Corp

Date: 17-Dec-12

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
Sample ID: Sample Pt. 2
Collection Date: 12/3/2012 11:10 AM

Work Order: 1212347
Lab ID: 1212347-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 12/11/2012	Analyst: CW
DRO (C10-C28)	120		4.2	mg/Kg-dry	1	12/12/2012 02:06 AM
Surr: 4-Terphenyl-d14	150	S	39-115	%REC	1	12/12/2012 02:06 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	ND		2.6	mg/Kg-dry	50	12/11/2012 03:11 PM
Surr: Toluene-d8	102		50-150	%REC	50	12/11/2012 03:11 PM
MERCURY BY CVAA						
			SW7471		Prep Date: 12/14/2012	Analyst: LR
Mercury	0.017		0.016	mg/Kg-dry	1	12/14/2012 02:37 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 12/14/2012	Analyst: CES
Arsenic	2.9		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Barium	860		8.1	mg/Kg-dry	20	12/14/2012 10:49 PM
Cadmium	ND		0.32	mg/Kg-dry	2	12/14/2012 08:03 PM
Chromium	8.5		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Copper	8.8		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Lead	8.4		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Nickel	7.8		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Selenium	0.94		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Silver	ND		0.81	mg/Kg-dry	2	12/14/2012 08:03 PM
Zinc	30		1.6	mg/Kg-dry	2	12/14/2012 08:03 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 12/11/2012	Analyst: RM
Acenaphthene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Anthracene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Benzo(a)anthracene	ND		17	µg/Kg-dry	1	12/11/2012 08:07 PM
Benzo(a)pyrene	ND		17	µg/Kg-dry	1	12/11/2012 08:07 PM
Benzo(b)fluoranthene	ND		18	µg/Kg-dry	1	12/11/2012 08:07 PM
Benzo(g,h,i)perylene	ND		28	µg/Kg-dry	1	12/11/2012 08:07 PM
Benzo(k)fluoranthene	ND		18	µg/Kg-dry	1	12/11/2012 08:07 PM
Chrysene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Dibenzo(a,h)anthracene	ND		18	µg/Kg-dry	1	12/11/2012 08:07 PM
Fluoranthene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Fluorene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Indeno(1,2,3-cd)pyrene	ND		20	µg/Kg-dry	1	12/11/2012 08:07 PM
Naphthalene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Pyrene	ND		15	µg/Kg-dry	1	12/11/2012 08:07 PM
Surr: 2-Fluorobiphenyl	77.5		12-100	%REC	1	12/11/2012 08:07 PM
Surr: 4-Terphenyl-d14	96.5		25-137	%REC	1	12/11/2012 08:07 PM
Surr: Nitrobenzene-d5	79.3		37-107	%REC	1	12/11/2012 08:07 PM

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

ALS Group USA, Corp

Date: 17-Dec-12

Client: HRL Compliance Solutions
Project: Antero Valley Farms D-Pad 10-292 12/3/12
Sample ID: Sample Pt. 2
Collection Date: 12/3/2012 11:10 AM

Work Order: 1212347
Lab ID: 1212347-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 12/11/2012	Analyst: AK
Benzene	ND		31	µg/Kg-dry	1	12/11/2012 04:52 PM
Ethylbenzene	ND		31	µg/Kg-dry	1	12/11/2012 04:52 PM
m,p-Xylene	ND		62	µg/Kg-dry	1	12/11/2012 04:52 PM
o-Xylene	ND		31	µg/Kg-dry	1	12/11/2012 04:52 PM
Toluene	ND		31	µg/Kg-dry	1	12/11/2012 04:52 PM
Xylenes, Total	ND		93	µg/Kg-dry	1	12/11/2012 04:52 PM
Surr: 1,2-Dichloroethane-d4	92.0		70-130	%REC	1	12/11/2012 04:52 PM
Surr: 4-Bromofluorobenzene	96.0		70-130	%REC	1	12/11/2012 04:52 PM
Surr: Dibromofluoromethane	93.5		70-130	%REC	1	12/11/2012 04:52 PM
Surr: Toluene-d8	95.6		70-130	%REC	1	12/11/2012 04:52 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.5		0.52	mg/Kg-dry	1	12/17/2012 04:24 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 12/13/2012	Analyst: JB
Chromium, Hexavalent	ND		0.51	mg/Kg-dry	1	12/14/2012 10:30 AM
MOISTURE			A2540 G			Analyst: LR
Moisture	3.0	H	0.050	% of sample	1	12/11/2012 12:30 PM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1212347

Project: Antero Valley Farms D-Pad 10-292 12/3/12

Batch ID: 45310 Instrument ID GC8 Method: SW8015M

MBLK		Sample ID: DBLKS1-45310-45310				Units: mg/Kg		Analysis Date: 12/11/2012 09:04 PM		
Client ID:		Run ID: GC8_121211A				SeqNo: 2166158		Prep Date: 12/11/2012		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	1.519	0	1.667	0	91.1	39-115	0			

LCS		Sample ID: DLCSS1-45310-45310				Units: mg/Kg		Analysis Date: 12/11/2012 09:29 PM		
Client ID:		Run ID: GC8_121211A				SeqNo: 2166159		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	115.6	4.2	166.7	0	69.4	49-124	0			
Surr: 4-Terphenyl-d14	1.494	0	1.667	0	89.6	39-115	0			

MS		Sample ID: 1212344-01B MS				Units: mg/Kg		Analysis Date: 12/11/2012 07:23 PM		
Client ID:		Run ID: GC8_121211A				SeqNo: 2166155		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1034	12	468.4	837.9	41.9	49-130	0			S
Surr: 4-Terphenyl-d14	5.119	0	4.684	0	109	39-115	0			

MSD		Sample ID: 1212344-01B MSD				Units: mg/Kg		Analysis Date: 12/11/2012 07:48 PM		
Client ID:		Run ID: GC8_121211A				SeqNo: 2166156		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1304	12	466	837.9	100	49-130	1034	23.1	30	
Surr: 4-Terphenyl-d14	5.309	0	4.66	0	114	39-115	5.119	3.65	30	

The following samples were analyzed in this batch: | 1212347-01B | 1212347-02B |

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **R113780** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-121211-R113780				Units: µg/L		Analysis Date: 12/11/2012 01:07 PM		
Client ID:		Run ID: GC10_121211A				SeqNo: 2165952		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>	<i>105.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: GLCS1-121211-R113780				Units: µg/L		Analysis Date: 12/11/2012 12:18 PM		
Client ID:		Run ID: GC10_121211A				SeqNo: 2165951		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)	7931	200	10000	0	79.3	70-130	0			
<i>Surr: Toluene-d8</i>	<i>113.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>113</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1212249-03A MS				Units: µg/L		Analysis Date: 12/11/2012 09:47 PM		
Client ID:		Run ID: GC10_121211A				SeqNo: 2165957		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)	8064	200	10000	1749	63.2	70-130	0			S
<i>Surr: Toluene-d8</i>	<i>111.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>111</i>	<i>70-130</i>	<i>0</i>			

MSD		Sample ID: 1212249-03A MSD				Units: µg/L		Analysis Date: 12/11/2012 10:12 PM		
Client ID:		Run ID: GC10_121211A				SeqNo: 2165958		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)	7776	200	10000	1749	60.3	70-130	8064	3.64	30	S
<i>Surr: Toluene-d8</i>	<i>112</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>112</i>	<i>70-130</i>	<i>111.4</i>	<i>0.6</i>	<i>30</i>	

The following samples were analyzed in this batch:

1212347-01A	1212347-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45412** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-45412-45412				Units: mg/Kg		Analysis Date: 12/14/2012 01:58 PM		
Client ID:		Run ID: HG1_121214A				SeqNo: 2169734		Prep Date: 12/14/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002833	0.020								J

LCS		Sample ID: LCS-45412-45412				Units: mg/Kg		Analysis Date: 12/14/2012 02:07 PM		
Client ID:		Run ID: HG1_121214A				SeqNo: 2169735		Prep Date: 12/14/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.165	0.020	0.1665	0	99.1	80-120	0			

MS		Sample ID: 1212347-01BMS				Units: mg/Kg		Analysis Date: 12/14/2012 02:33 PM		
Client ID: Sample Pt. 1		Run ID: HG1_121214A				SeqNo: 2169869		Prep Date: 12/14/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1617	0.017	0.1448	0.01306	103	75-125	0			

MSD		Sample ID: 1212347-01BMSD				Units: mg/Kg		Analysis Date: 12/14/2012 02:35 PM		
Client ID: Sample Pt. 1		Run ID: HG1_121214A				SeqNo: 2169870		Prep Date: 12/14/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1554	0.017	0.1388	0.01306	103	75-125	0.1617	3.99	35	

The following samples were analyzed in this batch:

1212347-01B 1212347-02B

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45419** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-45419-45419				Units: mg/Kg		Analysis Date: 12/14/2012 06:33 PM		
Client ID:		Run ID: ICPMS1_121214A				SeqNo: 2170713		Prep Date: 12/14/2012		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	0.00913	0.25								J
Copper	0.009965	0.25								J
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-45419-45419				Units: mg/Kg		Analysis Date: 12/14/2012 06:40 PM		
Client ID:		Run ID: ICPMS1_121214A				SeqNo: 2170714		Prep Date: 12/14/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.224	0.25	5	0	84.5	80-120	0			
Barium	4.677	0.25	5	0	93.5	80-120	0			
Cadmium	4.683	0.10	5	0	93.7	80-120	0			
Chromium	4.356	0.25	5	0	87.1	80-120	0			
Copper	4.426	0.25	5	0	88.5	80-120	0			
Lead	4.734	0.25	5	0	94.7	80-120	0			
Nickel	4.407	0.25	5	0	88.1	80-120	0			
Selenium	4.042	0.25	5	0	80.8	80-120	0			
Silver	4.473	0.25	5	0	89.5	80-120	0			
Zinc	4.176	0.50	5	0	83.5	80-120	0			

MS		Sample ID: 1212347-02BMS				Units: mg/Kg		Analysis Date: 12/14/2012 08:08 PM		
Client ID: Sample Pt. 2		Run ID: ICPMS1_121214A				SeqNo: 2170725		Prep Date: 12/14/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	7.309	0.31	7.716	0.1854	92.3	75-125	0			
Chromium	14.49	0.77	7.716	8.228	81.2	75-125	0			
Lead	14.52	0.77	7.716	8.116	83.1	75-125	0			
Nickel	14.2	0.77	7.716	7.532	86.4	75-125	0			
Selenium	6.574	0.77	7.716	0.9132	73.4	75-125	0			S
Silver	6.244	0.77	7.716	0.03408	80.5	75-125	0			

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45419** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 1212347-02BMS			Units: mg/Kg		Analysis Date: 12/14/2012 10:55 PM	
Client ID: Sample Pt. 2				Run ID: ICPMS1_121214A			SeqNo: 2170770		Prep Date: 12/14/2012	
							DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.702	7.7	7.716	2.973	87.2	75-125	0			
Barium	820.7	7.7	7.716	837.8	-222	75-125	0			SO
Copper	17.39	7.7	7.716	10.78	85.7	75-125	0			
Zinc	43.95	15	7.716	38.57	69.7	75-125	0			SO

MSD				Sample ID: 1212347-02BMSD			Units: mg/Kg		Analysis Date: 12/14/2012 08:14 PM	
Client ID: Sample Pt. 2				Run ID: ICPMS1_121214A			SeqNo: 2170726		Prep Date: 12/14/2012	
							DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	7.63	0.31	7.874	0.1854	94.5	75-125	7.309	4.3	25	
Chromium	15.19	0.79	7.874	8.228	88.4	75-125	14.49	4.69	25	
Lead	15.39	0.79	7.874	8.116	92.4	75-125	14.52	5.79	25	
Nickel	15.15	0.79	7.874	7.532	96.8	75-125	14.2	6.53	25	
Selenium	7.145	0.79	7.874	0.9132	79.1	75-125	6.574	8.32	25	
Silver	6.487	0.79	7.874	0.03408	81.9	75-125	6.244	3.81	25	

MSD				Sample ID: 1212347-02BMSD			Units: mg/Kg		Analysis Date: 12/14/2012 11:01 PM	
Client ID: Sample Pt. 2				Run ID: ICPMS1_121214A			SeqNo: 2170771		Prep Date: 12/14/2012	
							DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.02	7.9	7.874	2.973	76.8	75-125	9.702	7.28	25	
Barium	865.2	7.9	7.874	837.8	348	75-125	820.7	5.28	25	SO
Copper	18.58	7.9	7.874	10.78	99.1	75-125	17.39	6.62	25	
Zinc	46.58	16	7.874	38.57	102	75-125	43.95	5.81	25	O

The following samples were analyzed in this batch:

1212347-01B 1212347-02B

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45309** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-45309-45309				Units: µg/Kg		Analysis Date: 12/11/2012 05:36 PM		
Client ID:		Run ID: SVMS5_121211A				SeqNo: 2166981		Prep Date: 12/11/2012		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								
<i>Surr: 2-Fluorobiphenyl</i>	1380	0	1667	0	82.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1770	0	1667	0	106	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1431	0	1667	0	85.9	37-107	0			

LCS		Sample ID: SLCSS1-45309-45309				Units: µg/Kg		Analysis Date: 12/11/2012 06:06 PM		
Client ID:		Run ID: SVMS5_121211A				SeqNo: 2166982		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	559.7	30	666.7	0	83.9	45-110	0			
Anthracene	604.7	30	666.7	0	90.7	55-105	0			
Benzo(a)anthracene	607	30	666.7	0	91	50-110	0			
Benzo(a)pyrene	607	30	666.7	0	91	50-110	0			
Benzo(b)fluoranthene	592.7	30	666.7	0	88.9	45-115	0			
Benzo(g,h,i)perylene	685.7	30	666.7	0	103	40-125	0			
Benzo(k)fluoranthene	677	30	666.7	0	102	45-115	0			
Chrysene	658	30	666.7	0	98.7	55-110	0			
Dibenzo(a,h)anthracene	660	30	666.7	0	99	40-125	0			
Fluoranthene	634	30	666.7	0	95.1	55-115	0			
Fluorene	591.7	30	666.7	0	88.7	50-110	0			
Indeno(1,2,3-cd)pyrene	663.3	30	666.7	0	99.5	40-120	0			
Naphthalene	544	30	666.7	0	81.6	40-105	0			
Pyrene	604.7	30	666.7	0	90.7	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1332	0	1667	0	79.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1654	0	1667	0	99.2	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1398	0	1667	0	83.9	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45309** Instrument ID **SVMS5** Method: **SW8270**

MS				Units: µg/Kg				Analysis Date: 12/11/2012 06:36 PM		
Sample ID: 1212347-01B MS										
Client ID: Sample Pt. 1				Run ID: SVMS5_121211A				SeqNo: 2166983 Prep Date: 12/11/2012 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1027	57	1270	0	80.8	45-110	0			
Anthracene	1135	57	1270	0	89.4	55-105	0			
Benzo(a)anthracene	1138	57	1270	0	89.6	50-110	0			
Benzo(a)pyrene	1082	57	1270	0	85.2	50-110	0			
Benzo(b)fluoranthene	1150	57	1270	0	90.6	45-115	0			
Benzo(g,h,i)perylene	1177	57	1270	0	92.7	40-125	0			
Benzo(k)fluoranthene	1027	57	1270	0	80.8	45-115	0			
Chrysene	1202	57	1270	0	94.7	55-110	0			
Dibenzo(a,h)anthracene	1102	57	1270	0	86.8	40-125	0			
Fluoranthene	1165	57	1270	0	91.7	55-115	0			
Fluorene	1078	57	1270	0	84.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1123	57	1270	0	88.4	40-120	0			
Naphthalene	968.2	57	1270	0	76.2	40-105	0			
Pyrene	1098	57	1270	0	86.4	45-125	0			
Surr: 2-Fluorobiphenyl	2388	0	3174	0	75.2	12-100	0			
Surr: 4-Terphenyl-d14	2877	0	3174	0	90.6	25-137	0			
Surr: Nitrobenzene-d5	2459	0	3174	0	77.5	37-107	0			

MSD				Units: µg/Kg				Analysis Date: 12/11/2012 07:07 PM		
Sample ID: 1212347-01B MSD										
Client ID: Sample Pt. 1				Run ID: SVMS5_121211A				SeqNo: 2166984 Prep Date: 12/11/2012 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1100	58	1299	0	84.6	45-110	1027	6.89	30	
Anthracene	1199	58	1299	0	92.3	55-105	1135	5.49	30	
Benzo(a)anthracene	1188	58	1299	0	91.4	50-110	1138	4.34	30	
Benzo(a)pyrene	1149	58	1299	0	88.4	50-110	1082	5.93	30	
Benzo(b)fluoranthene	1215	58	1299	0	93.5	45-115	1150	5.5	30	
Benzo(g,h,i)perylene	1207	58	1299	0	92.9	40-125	1177	2.51	30	
Benzo(k)fluoranthene	1063	58	1299	0	81.8	45-115	1027	3.47	30	
Chrysene	1264	58	1299	0	97.2	55-110	1202	4.96	30	
Dibenzo(a,h)anthracene	1141	58	1299	0	87.8	40-125	1102	3.5	30	
Fluoranthene	1209	58	1299	0	93	55-115	1165	3.71	30	
Fluorene	1147	58	1299	0	88.3	50-110	1078	6.22	30	
Indeno(1,2,3-cd)pyrene	1152	58	1299	0	88.7	40-120	1123	2.58	30	
Naphthalene	1047	58	1299	0	80.5	40-105	968.2	7.78	30	
Pyrene	1166	58	1299	0	89.7	45-125	1098	6.04	30	
Surr: 2-Fluorobiphenyl	2578	0	3248	0	79.4	12-100	2388	7.65	40	
Surr: 4-Terphenyl-d14	3041	0	3248	0	93.6	25-137	2877	5.53	40	
Surr: Nitrobenzene-d5	2669	0	3248	0	82.2	37-107	2459	8.19	40	

The following samples were analyzed in this batch: 1212347-01B 1212347-02B

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45324** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: MBLK-45324-45324				Units: µg/Kg		Analysis Date: 12/11/2012 01:41 PM		
Client ID:		Run ID: VMS8_121211A				SeqNo: 2165887		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	878	0	1000	0	87.8	70-130	0			
Surr: 4-Bromofluorobenzene	961	0	1000	0	96.1	70-130	0			
Surr: Dibromofluoromethane	938	0	1000	0	93.8	70-130	0			
Surr: Toluene-d8	972	0	1000	0	97.2	70-130	0			

MBLK		Sample ID: MBLK-45324-45324				Units: µg/Kg		Analysis Date: 12/11/2012 03:17 PM		
Client ID:		Run ID: VMS9_121211A				SeqNo: 2166014		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1002	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	957	0	1000	0	95.7	70-130	0			
Surr: Dibromofluoromethane	964	0	1000	0	96.4	70-130	0			
Surr: Toluene-d8	993	0	1000	0	99.3	70-130	0			

MBLK		Sample ID: MBLK1-45324-45324				Units: µg/Kg		Analysis Date: 12/11/2012 01:34 PM		
Client ID:		Run ID: VMS7_121211A				SeqNo: 2166111		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	987.5	0	1000	0	98.8	70-130	0			
Surr: 4-Bromofluorobenzene	1018	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	970	0	1000	0	97	70-130	0			
Surr: Toluene-d8	970.5	0	1000	0	97	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45324** Instrument ID **VMS8** Method: **SW8260**

LCS		Sample ID: LCS-45324-45324				Units: µg/Kg		Analysis Date: 12/11/2012 12:53 PM		
Client ID:		Run ID: VMS8_121211A				SeqNo: 2165886		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	927	30	1000	0	92.7	75-125	0			
Ethylbenzene	985	30	1000	0	98.5	75-125	0			
m,p-Xylene	1998	60	2000	0	99.9	80-125	0			
o-Xylene	987.5	30	1000	0	98.8	75-125	0			
Toluene	962.5	30	1000	0	96.2	70-125	0			
Xylenes, Total	2986	90	3000	0	99.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	901	0	1000	0	90.1	70-130	0			
Surr: 4-Bromofluorobenzene	1024	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	998.5	0	1000	0	99.8	70-130	0			
Surr: Toluene-d8	1010	0	1000	0	101	70-130	0			

LCS		Sample ID: LCS-45324-45324				Units: µg/Kg		Analysis Date: 12/11/2012 02:00 PM		
Client ID:		Run ID: VMS9_121211A				SeqNo: 2166013		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	958	30	1000	0	95.8	75-125	0			
Ethylbenzene	1002	30	1000	0	100	75-125	0			
m,p-Xylene	2008	60	2000	0	100	80-125	0			
o-Xylene	995.5	30	1000	0	99.6	75-125	0			
Toluene	987.5	30	1000	0	98.8	70-125	0			
Xylenes, Total	3004	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	991.5	0	1000	0	99.2	70-130	0			
Surr: 4-Bromofluorobenzene	1025	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	1036	0	1000	0	104	70-130	0			
Surr: Toluene-d8	1044	0	1000	0	104	70-130	0			

LCS		Sample ID: LCS1-45324-45324				Units: µg/Kg		Analysis Date: 12/11/2012 12:18 PM		
Client ID:		Run ID: VMS7_121211A				SeqNo: 2166110		Prep Date: 12/11/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	986.5	30	1000	0	98.6	75-125	0			
Ethylbenzene	1016	30	1000	0	102	75-125	0			
m,p-Xylene	2029	60	2000	0	101	80-125	0			
o-Xylene	1010	30	1000	0	101	75-125	0			
Toluene	1008	30	1000	0	101	70-125	0			
Xylenes, Total	3039	90	3000	0	101	75-125	0			
Surr: 1,2-Dichloroethane-d4	966.5	0	1000	0	96.6	70-130	0			
Surr: 4-Bromofluorobenzene	1027	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	1021	0	1000	0	102	70-130	0			
Surr: Toluene-d8	981.5	0	1000	0	98.2	70-130	0			

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

Client: HRL Compliance Solutions
 Work Order: 1212347
 Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45324** Instrument ID **VMS8** Method: **SW8260**

MS Sample ID: 1212334-11A MS				Units: µg/Kg			Analysis Date: 12/11/2012 10:26 PM			
Client ID:		Run ID: VMS8_121211A		SeqNo: 2166108		Prep Date: 12/11/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	981.6	32	1082	0	90.7	75-125	0			
Ethylbenzene	1019	32	1082	0	94.2	75-125	0			
m,p-Xylene	2046	65	2165	0	94.5	80-125	0			
o-Xylene	1020	32	1082	0	94.2	75-125	0			
Toluene	971.9	32	1082	0	89.8	70-125	0			
Xylenes, Total	3066	97	3247	0	94.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	1005	0	1082	0	92.9	70-130	0			
Surr: 4-Bromofluorobenzene	1070	0	1082	0	98.9	70-130	0			
Surr: Dibromofluoromethane	1048	0	1082	0	96.8	70-130	0			
Surr: Toluene-d8	1019	0	1082	0	94.2	70-130	0			

MSD Sample ID: 1212334-11A MSD				Units: µg/Kg			Analysis Date: 12/11/2012 10:50 PM			
Client ID:		Run ID: VMS8_121211A		SeqNo: 2166109		Prep Date: 12/11/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	981.1	32	1082	0	90.6	75-125	981.6	0.0551	30	
Ethylbenzene	1019	32	1082	0	94.2	75-125	1019	0	30	
m,p-Xylene	2065	65	2165	0	95.4	80-125	2046	0.948	30	
o-Xylene	1042	32	1082	0	96.2	75-125	1020	2.1	30	
Toluene	981.6	32	1082	0	90.7	70-125	971.9	0.997	30	
Xylenes, Total	3107	97	3247	0	95.7	75-125	3066	1.33	30	
Surr: 1,2-Dichloroethane-d4	1006	0	1082	0	93	70-130	1005	0.108	30	
Surr: 4-Bromofluorobenzene	1102	0	1082	0	102	70-130	1070	2.94	30	
Surr: Dibromofluoromethane	1027	0	1082	0	94.8	70-130	1048	2.03	30	
Surr: Toluene-d8	993.5	0	1082	0	91.8	70-130	1019	2.58	30	

The following samples were analyzed in this batch:

1212347-01A 1212347-02A

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **45393** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-45393-45393				Units: mg/Kg		Analysis Date: 12/14/2012 10:30 AM		
Client ID:		Run ID: WETCHEM_121214D		SeqNo: 2169235		Prep Date: 12/13/2012		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-45393-45393				Units: mg/Kg		Analysis Date: 12/14/2012 10:30 AM		
Client ID:		Run ID: WETCHEM_121214D		SeqNo: 2169236		Prep Date: 12/13/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.929 0.50 1.984 0 97.2 75-110 0

MS		Sample ID: 1212347-01B MS				Units: mg/Kg		Analysis Date: 12/14/2012 10:30 AM		
Client ID: Sample Pt. 1		Run ID: WETCHEM_121214D		SeqNo: 2169238		Prep Date: 12/13/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.54 0.50 2 0.01626 76.2 60-130 0

MSD		Sample ID: 1212347-01B MSD				Units: mg/Kg		Analysis Date: 12/14/2012 10:30 AM		
Client ID: Sample Pt. 1		Run ID: WETCHEM_121214D		SeqNo: 2169239		Prep Date: 12/13/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.54 0.50 2 0.01626 76.2 60-130 1.54 0 30

The following samples were analyzed in this batch:

1212347-01B 1212347-02B

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

Client: HRL Compliance Solutions
Work Order: 1212347
Project: Antero Valley Farms D-Pad 10-292 12/3/12

QC BATCH REPORT

Batch ID: **R113816** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS1-R113816				Units: % of sample				Analysis Date: 12/11/2012 12:30 PM											
Client ID:				Run ID: MOIST_121211C				SeqNo: 2166891				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-R113816					Units: % of sample			Analysis Date: 12/11/2012 12:30 PM		
Client ID:		Run ID: MOIST_121211C					SeqNo: 2166887		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: 1212321-04B DUP				Units: % of sample				Analysis Date: 12/11/2012 12:30 PM									
Client ID:				Run ID: MOIST_121211C				SeqNo: 2166863				Prep Date:				DF: 1					
Analyte		Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 62.04 0.050 0 0 0 0-0 62.99 1.52 20

DUP				Sample ID: 1212344-03B DUP				Units: % of sample				Analysis Date: 12/11/2012 12:30 PM									
Client ID:				Run ID: MOIST_121211C				SeqNo: 2166881				Prep Date:				DF: 1					
Analyte		Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 13.65 0.050 0 0 0 0-0 14.08 3.1 20

The following samples were analyzed in this batch:

1212347-01B 1212347-02B

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

WORKORDER
#

1212345

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: *****Hold metals untill notified. Do not run PAH if DRO is above 500ppm. ***** <div style="text-align: right; font-size: 2em; margin-top: 20px;">1.8°C </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		Dan Pinegar	12/3/2012	1700
RECEIVED BY		Diane F Shaw	12/11/12	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 11-Dec-12 09:30

Work Order: 1212347

Received by: DS

Checklist completed by Diane Shaw 11-Dec-12
eSignature Date

Reviewed by: Ann Preston 11-Dec-12
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>1.8 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/11/2012 10:34:58 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

FedEx *NEW Package*
Express *US Airbill*

FedEx
Tracking
Number

8008 9289 7466

0200 Form ID No.

FedEx Retrieval Copy

1 From [REDACTED]
Date 12-3-12

Sender's Name DAN PINEGAR Phone 970 243 3271

Company HCS2

Address 2385 F 12 RD Dept./Floor/Suite/Room

City GRAND JUNCTION State CO ZIP 81505

2 Your Internal Billing Reference

3 To Recipient's Name RECEIVING Phone 616 339-6070

Company ALS GROUP

ALS Environmental
3352 126th Avenue
Holland, MI 48127-1000
Tel. +1 616 399 6070
Fax. +1 616 399 6185

4 Express Package Service *To most locations.

NOTE: Service order has changed. Please select carefully.

Next Business Day

06 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

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

6 Special Handling and Delivery Signature Options

☐ SATURDAY DELIVERY

☐ No Signature Required
Package may be left without

10 ☐ Direct Signature
Someone at recipient's address signs for delivery.

34 ☐ Indirect Signature
If no one is available, someone at a neighboring address signs for delivery. For only. Fee applies.

CUSTODY SEAL

Seal Broken By:

Date 12-3-12 Time 1:40
Name DAN PINEGAR
Company ALS

1 ☐ VENDOR
2 ☒ Recipient
3 ☐ Third Party
4 ☐ Credit Card
5 ☐ Cash/Check

Total Packages Total Weight

1 30 lbs.

Credit Card Auth:

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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Confirmation Sample Location Map
Location: Valley Farms D Pad
Antero Resources Piceance Corp.

Legend

- Sample Location
- Hydrography**
 - Perennial Stream
 - Intermittent Stream
 - Public Roads



0 25 50 100 Feet

PRIOR HISTORY

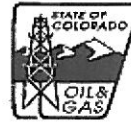
FORM

19

Rev 6/99

State of Colorado Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by:

FACILITY ID:

OPERATOR INFORMATION

Name of Operator: Antero Resources Piceance Corporation OGCC Operator No: 10079Address: 1625 17th Street, Suite 300City: Denver State: CO Zip: 80202Contact Person: Gerard G. Alberts

Phone Numbers

No: 303-357-7341Fax: 303-357-7315E-Mail: jalberts@anteroresources.com

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: 6/24/2010 Facility Name & No.: Valley Farms D PadType of Facility (well, tank battery, flow line, pit): Well Pad/Well Injection FacilityWell Name and Number: Valley Farms D3API Number: 05045120820000County: Garfield CountyQtrQtr: NENW Section: 15Township: T6S Range: R92WMeridian: 6th

Specify volume spilled and recovered (in bbls) for the following materials:

Oil spilled: 0.008 Oil recov'd: ~0.008 Water spilled: 9.992 Water recov'd: 9 Other spilled: N/A Other recov'd: soil ~10 cu yardsGround Water impacted? ☐ Yes ☒ NoSurface Water impacted? ☐ Yes ☒ NoContained within berm? ☒ Yes ☐ NoArea and vertical extent of spill: 20 ft x 30 ft x 1-2 inches in depthCurrent land use: Oil & Gas, Livestock grazing, CropsWeather conditions: Warm, calm weatherSoil/geology description: Potts Loam: 6-12 percent slopesIF LESS THAN A MILE, report distance IN FEET to nearest.... Surface water: 1,600 wetlands: 480 buildings: 655Livestock: ~450 water wells: 950 Depth to shallowest ground water: ~80Cause of spill (e.g., equipment failure, human error, etc.): Equipment Failure Detailed description of the spill/release incident:

Three frac tanks at the Valley Farms D Pad were receiving water from the buried field water poly line for water to be injected at the D3 injection well. During the water haul transfer a gas bubble escaped into the water pipeline via an open separator water dump valve. Once this gas bubble reached the frac tanks at the Valley Farms D Pad it over pressurized the tanks and pushed the flowback water out of the top of two of the frac tanks. Upon discovery Antero personnel were immediately notified and vac trucks were sent to the location. After the surface liquid was sucked up, the impacted soil was excavated about 1 inch in depth. A confirmation sample was then taken.

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):

Upon discovery, Antero personnel were immediately notified. Vac trucks were then sent to the location. The spill was kept on site so once all liquids were sucked up all of the visually impacted soils were excavated.

Describe any emergency pits constructed:

None, the spill was kept on-site

How was the extent of contamination determined:

Visual area estimation based on the the extent of hydrocarbon stained soils.

Further remediation activities proposed (attach separate sheet if needed):

A confirmation sample was taken near the frac tanks after excavation. If the soil does not meet the table 910-1 Standards further excavation will occur until the pad surface meets 910-1 Standards

Describe measures taken to prevent problem from reoccurring:

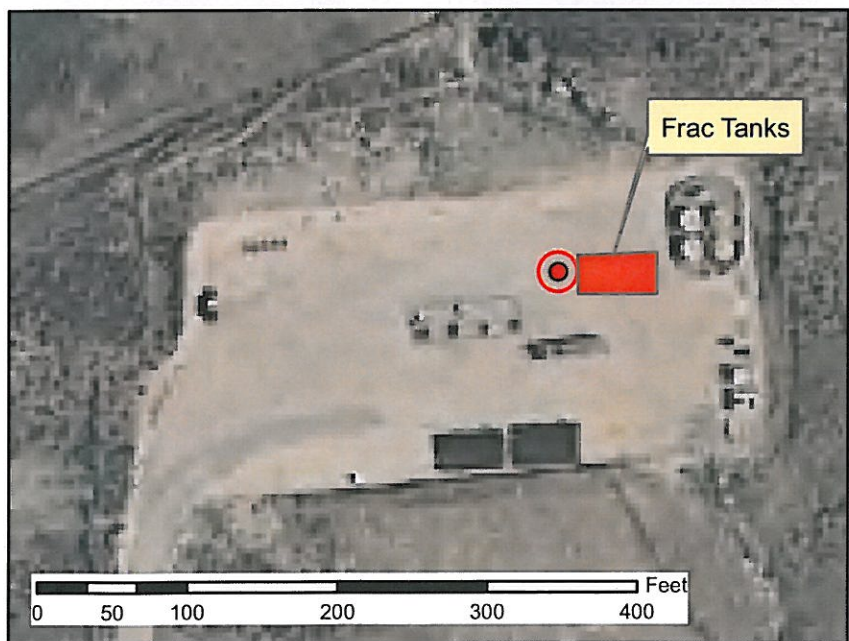
Antero operators re-inspected the water dump valves that feed into the main pipeline. When the level of water in the separator is high the dump valve opens to push the water into the main pipeline to reduce pressure. If left open, gas can escape through this valve into the main line. All water dump valves were checked to make sure they were closed and working properly.

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: _____



Spill Location Map
Location: Valley Farms D Pad
Antero Resources Piceance Corp.

Legend



SamplePoint

Hydrography

— Perennial Stream

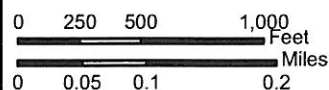
- - - Intermittent Stream

||||| Ditch/Canal

Transportation Features

— Highways

— Public Roads



Valley Farms D Pad

Antero Resources Piceance Corp.

- Water Well
- Water Well
- Water Line
- Gas Line

15

0 425
FEET



	Name	Address	Phone Number
Company	Antero Resources	1625 17th Street Denver, CO 80202	(303)357-7310
Map Preparer	Kelly Bruchez	1625 17th Street Denver, CO 80202	(303)357-7310



0 0.1 0.2 Miles



Map Legend

 CDP_BUILT_PADS	 AQUATIC	 WER Revised WLs surveyed 1999
Streams Ditches	 STUDY BOUNDARY	 WER Revised Wetlands
TYPE	 CULVERT	 WER Soil Pits
 DITCH	 DAM	 WER Wetland NonJurisdictional 062005
 INTERMITTENT	 EXPNPTWETLANDS	 Wetlands Outline
 PERENNIAL	 LAKE	 Wetlands along Colorado River South Bank
	 WER 1999 Wetlands Converted to Uplands	