DOCUMENT #2221384

FORM 4 Rev 12/05

Page 1

State of Colorado
Oil and Gas Conservation Commission

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

DE | ET | OE | ES

RECEIVED 11/14/2011

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: 96850
2. Name of Operator: Williams Production RMT Company
3. Address: 1058 County road 215
   City: Parachute State: CO Zip: 81635
4. Contact Name: Karolina Blaney
   Phone: 970-683-2295
   Fax: 970-285-9573
5. API Number 05- 045-13282
6. Well/Facility Name: Knight
7. Well/Facility Number PA 21-3
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW, 3, 7S, 95W, 6th
9. County: Garfield
10. Field Name: Parachute
11. Federal, Indian or State Lease Number:

OGCC Facility ID Number 334775

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	x	
Other	x	

General Notice

☐ **CHANGE OF LOCATION:** Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage **from** Exterior Section Lines:				
Change of **Surface** Footage **to** Exterior Section Lines:				
Change of **Bottomhole** Footage **from** Exterior Section Lines:				
Change of **Bottomhole** Footage **to** Exterior Section Lines:				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude | Distance to nearest property line | Distance to nearest bldg, public rd, utility or RR

Longitude | Distance to nearest lease line | Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation | Distance to nearest well same formation | Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ **CHANGE SPACING UNIT**

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ **Remove from surface bond**
Signed surface use agreement attached

☐ **CHANGE OF OPERATOR (prior to drilling):**
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ **CHANGE WELL NAME** NUMBER
From:
To:
Effective Date:

☐ **ABANDONED LOCATION:**
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ **NOTICE OF CONTINUED SHUT IN STATUS**
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ **SPUD DATE:**

☐ **REQUEST FOR CONFIDENTIAL STATUS** (6 mos from date casing set)

☐ **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

☐ **RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately
☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date:

☐ Report of Work Done
Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)	☐ Request to Vent or Flare	☐ E&P Waste Disposal
☐ Change Drilling Plans	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Changed?	☐ Rule 502 variance requested	☒ Status Update/Change of Remediation Plans for Spills and Releases
☐ Casing/Cementing Program Change	☐ Other:	

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

Signed: Karolina Blaney Date: 11/14/2011 Email: karolina.blaney@williams.com

Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Carlos Vigil Title FOR Date: 12/05/2011

CONDITIONS OF APPROVAL, IF ANY:

Chris Canfield
EPS NW Region

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 96850 API Number: 05-045-13282
2. Name of Operator: Williams Production RMT Company OGCC Facility ID # 334775
3. Well/Facility Name: Knight Well/Facility Number: PA 21-3
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW, 3, 7S, 95W, 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**

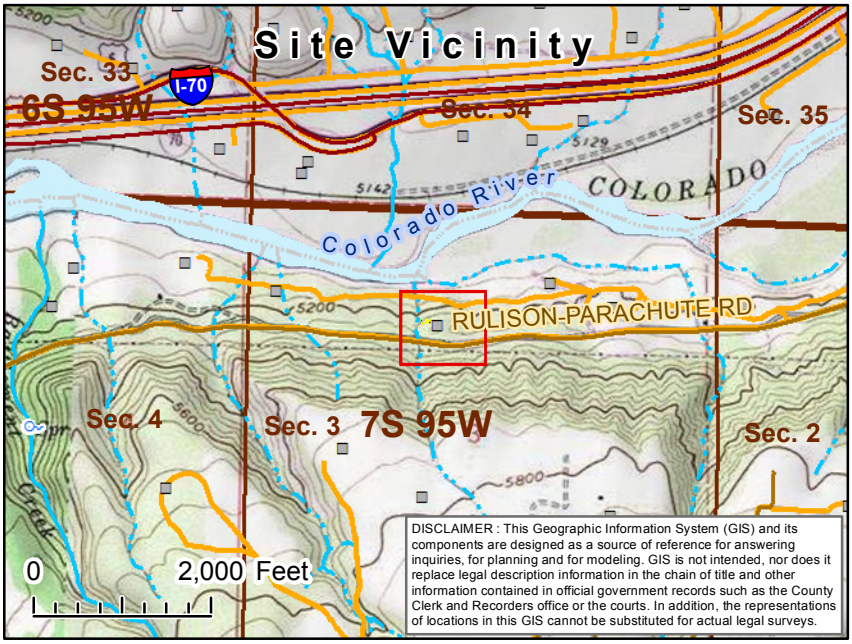
Williams Production is submitting the analytical data for the PA 21-3 as requested by the COGCC. The release occurred on July 15, 2011. The incident tracking number for the release is 2215681. No live surface water was impacted by the release. The areas impacted by the release were sampled on July 15, 2011. All parameters on the pad were below Table 910-1 standards for soil with the exception of Benzene which exceeded Table 910-1 by 10 ppb and SAR. The area on the pad exceeding Table 910-1 for Benzene was re-sampled on August 2, 2011, after the pad had dried out. The results were non-detect. Analytical results for the sample collected off the pad were below Table 910-1 with the exception of SAR. It was anticipated that the SAR values off the pad would drop as natural precipitation events attenuated the residual salt content over time. The impacted area off the pad was re-sampled for SAR on October 28, 2011 as requesated by the COGCC. The results were below Table 910-1 standard of 12 for SAR. Three background arsenic samples as well as one background SAR sample have also been collected off the pad. Any remaining SAR issues on the pad , if any, will be addressed when the pad goes to final reclamation. Williams would like to close this incident out if approved by the COGCC. A copy of the analytical results is included with the Form 4 for reference.

Below are the analytical results for arsenic at the point of origin, off site and background locations.

PA 21-3 Point of Origin	Depth collected 0-12 inches	8.1 mg/Kg
Off Site	Depth collected 0-12 inches	7.9 mg/Kg
Background Location 1	Depth collected 0-12 inches	6.8 mg/Kg
Background Location 2	Depth collected 0-12 inches	7.0 mg/Kg
Background Location 3	Depth collected 0-12 inches	9.5 mg/Kg

Below are the analytical results for SAR at the point of origin, off site and background locations.

PA 21-3 Point of Origin	Depth collected 0-12 inches	99.2
Off Site 7/15/2011	Depth collected 0-12 inches	123.4
Background Location 1	Depth collected 0-12 inches	8.3
Off Site 10/28/2011	Depth collected 0-12 inches	1.2



Attachment A--Sample Location Map

Location: PA 21-3

Williams Production RMT

Legend

- Sample Location
- **PLSS**
  - Township
  - Section
- **Transportation Features**
  - Highways
  - Public Roads
  - Williams Access Roads
- **Hydrographic Features**
  - Perennial Stream
  - Intermittent Stream
  - Ditch/Canal
  - River

N W E S

0 37.5 75 150 Feet

HCSI ENVIRONMENTAL CONSULTANTS

T:\Client_Specific\2008\Williams_EP\Spills\Valley\2011\PA 21-3 Produced Water Spill 07.20.11\PA 21-3 Attachment A 07.20.11.mxd HCSI_jharris

Revision Date: 7/20/2011 5:19:15 PM

28-Jul-2011

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

Re: **PA 21-3 7/15/11** Work Order: **1107523**

Dear Mark,

ALS Environmental received 5 samples on 21-Jul-2011 11:25 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 33.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: IL100452

ALS Group USA, Corp

Date: 28-Jul-11

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11
Work Order: **1107523**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1107523-01	Point of Origin	Soil		7/15/2011 10:10	7/21/2011 11:25	☐
1107523-02	Off Site	Soil		7/15/2011 10:15	7/21/2011 11:25	☐
1107523-03	BG 1	Soil		7/15/2011 11:15	7/21/2011 11:25	☐
1107523-04	BG 2	Soil		7/15/2011 11:20	7/21/2011 11:25	☐
1107523-05	BG 3	Soil		7/15/2011 11:25	7/21/2011 11:25	☐

ALS Group USA, Corp

Date: 28-Jul-11

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11
Work Order: 1107523

Case Narrative

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

Batch 34476 MS/MSD data for Metals is not related to this project's samples.

Batch 34503 MS/MSD data for Hexavalent Chromium is not related to this project's samples.

ALS Group USA, Corp

Date: 28-Jul-11

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11
WorkOrder: **1107523**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
as noted	
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: *28-Jul-11*

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: Point of Origin **Lab ID:** 1107523-01
Collection Date: 7/15/2011 10:10 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/25/2011**	Analyst: **RM**
DRO (C10-C28)	**11**		**4.9**	**mg/Kg-dry**	1	7/26/2011 03:57 PM
Surr: 4-Terphenyl-d14	*78.2*		*39-115*	*%REC*	1	7/26/2011 03:57 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **RM**
GRO (C6-C10)	**260**		**6.1**	**mg/Kg-dry**	100	7/25/2011 03:40 PM
Surr: Toluene-d8	*109*		*50-150*	*%REC*	100	7/25/2011 03:40 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2011**	Analyst: **LR**
Mercury	ND		0.023	mg/Kg-dry	1	7/26/2011 01:55 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/22/2011**	Analyst: **CES**
Arsenic	**8.1**		**0.83**	**mg/Kg-dry**	2	7/23/2011 01:18 AM
Barium	**870**		**8.3**	**mg/Kg-dry**	20	7/25/2011 12:16 PM
Cadmium	ND		0.33	mg/Kg-dry	2	7/23/2011 01:18 AM
Chromium	**17**		**0.83**	**mg/Kg-dry**	2	7/23/2011 01:18 AM
Copper	**14**		**0.83**	**mg/Kg-dry**	2	7/23/2011 01:18 AM
Lead	**11**		**0.83**	**mg/Kg-dry**	2	7/23/2011 01:18 AM
Nickel	**20**		**0.83**	**mg/Kg-dry**	2	7/23/2011 01:18 AM
Selenium	ND		0.83	mg/Kg-dry	2	7/23/2011 01:18 AM
Silver	ND		0.83	mg/Kg-dry	2	7/23/2011 01:18 AM
Zinc	**57**		**1.7**	**mg/Kg-dry**	2	7/23/2011 01:18 AM
SUBCONTRACTED ANALYSES			**SUBCONTRACT**			Analyst: **A&LGL**
Subcontracted Analyses	**See report**			**as noted**	1	7/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/25/2011**	Analyst: **CW**
Acenaphthene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Anthracene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Chrysene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Fluoranthene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Fluorene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Naphthalene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Pyrene	ND		37	µg/Kg-dry	1	7/26/2011 12:54 PM
Surr: 2,4,6-Tribromophenol	*59.5*		*34-140*	*%REC*	1	7/26/2011 12:54 PM

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

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: Point of Origin **Lab ID:** 1107523-01
Collection Date: 7/15/2011 10:10 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	*47.8*		*12-100*	*%REC*	1	7/26/2011 12:54 PM
Surr: 2-Fluorophenol	*73.8*		*33-117*	*%REC*	1	7/26/2011 12:54 PM
Surr: 4-Terphenyl-d14	*85.7*		*25-137*	*%REC*	1	7/26/2011 12:54 PM
Surr: Nitrobenzene-d5	*66.5*		*37-107*	*%REC*	1	7/26/2011 12:54 PM
Surr: Phenol-d6	*69.8*		*40-106*	*%REC*	1	7/26/2011 12:54 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	**200**		**120**	**µg/Kg-dry**	100	7/25/2011 02:14 PM
Ethylbenzene	**400**		**120**	**µg/Kg-dry**	100	7/25/2011 02:14 PM
m,p-Xylene	**9,300**		**120**	**µg/Kg-dry**	100	7/25/2011 02:14 PM
o-Xylene	**1,400**		**120**	**µg/Kg-dry**	100	7/25/2011 02:14 PM
Toluene	**2,700**		**120**	**µg/Kg-dry**	100	7/25/2011 02:14 PM
Xylenes, Total	**11,000**		**370**	**µg/Kg-dry**	100	7/25/2011 02:14 PM
Surr: 1,2-Dichloroethane-d4	*98.4*		*70-120*	*%REC*	100	7/25/2011 02:14 PM
Surr: 4-Bromofluorobenzene	*105*		*75-120*	*%REC*	100	7/25/2011 02:14 PM
Surr: Dibromofluoromethane	*92.9*		*85-115*	*%REC*	100	7/25/2011 02:14 PM
Surr: Toluene-d8	*98.6*		*85-115*	*%REC*	100	7/25/2011 02:14 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**17**			**mg/Kg-dry**	1	7/26/2011 08:05 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/21/2011**	Analyst: **MB**
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	7/22/2011 03:00 PM
MOISTURE			**A2540 G**			Analyst: **JS**
Moisture	**18**		**0.050**	**% of sample**	1	7/21/2011 01:09 PM
PH			**SW9045D**			Analyst: **EE**
pH	**8.42**	H		**s.u.**	1	7/21/2011 09:40 AM

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

Report Number: F11206-0690
Acount 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: 1107523

DATE RECEIVED: 07/25/2011
DATE REPORTED: 07/27/2011
PAGE: 1
P.O. NUMBER: 20-122010441

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
34882	01B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	13.03	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	93	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	74	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	5304	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	99.2	-	USDA Handbook 60
34883	03B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	1.72	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	165	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	43	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	465	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	8.3	-	USDA Handbook 60

ALS Group USA, Corp

Date: *28-Jul-11*

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: Off Site **Lab ID:** 1107523-02
Collection Date: 7/15/2011 10:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/25/2011**	Analyst: **RM**
DRO (C10-C28)	**11**		**5.5**	**mg/Kg-dry**	1	7/26/2011 03:57 PM
Surr: 4-Terphenyl-d14	*78.9*		*39-115*	*%REC*	1	7/26/2011 03:57 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **RM**
GRO (C6-C10)	ND		6.6	mg/Kg-dry	100	7/25/2011 04:06 PM
Surr: Toluene-d8	*112*		*50-150*	*%REC*	100	7/25/2011 04:06 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2011**	Analyst: **LR**
Mercury	ND		0.026	mg/Kg-dry	1	7/26/2011 01:57 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/22/2011**	Analyst: **CES**
Arsenic	**7.9**		**0.95**	**mg/Kg-dry**	2	7/23/2011 01:48 AM
Barium	**770**		**9.5**	**mg/Kg-dry**	20	7/25/2011 12:22 PM
Cadmium	ND		0.38	mg/Kg-dry	2	7/23/2011 01:48 AM
Chromium	**21**		**0.95**	**mg/Kg-dry**	2	7/23/2011 01:48 AM
Copper	**14**		**0.95**	**mg/Kg-dry**	2	7/23/2011 01:48 AM
Lead	**11**		**0.95**	**mg/Kg-dry**	2	7/23/2011 01:48 AM
Nickel	**21**		**0.95**	**mg/Kg-dry**	2	7/23/2011 01:48 AM
Selenium	ND		0.95	mg/Kg-dry	2	7/23/2011 01:48 AM
Silver	ND		0.95	mg/Kg-dry	2	7/23/2011 01:48 AM
Zinc	**62**		**1.9**	**mg/Kg-dry**	2	7/23/2011 01:48 AM
SUBCONTRACTED ANALYSES			**SUBCONTRACT**			Analyst: **A&LGL**
Subcontracted Analyses	**See report**			**as noted**	1	7/28/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/25/2011**	Analyst: **CW**
Acenaphthene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Anthracene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Benzo(a)anthracene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Benzo(a)pyrene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Benzo(b)fluoranthene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Benzo(g,h,i)perylene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Benzo(k)fluoranthene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Chrysene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Dibenzo(a,h)anthracene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Fluoranthene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Fluorene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Indeno(1,2,3-cd)pyrene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Naphthalene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Pyrene	ND		39	µg/Kg-dry	1	7/26/2011 01:27 PM
Surr: 2,4,6-Tribromophenol	*53.6*		*34-140*	*%REC*	1	7/26/2011 01:27 PM

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

ALS Group USA, Corp

Date: *28-Jul-11*

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: Off Site **Lab ID:** 1107523-02
Collection Date: 7/15/2011 10:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	*38.9*		*12-100*	*%REC*	1	7/26/2011 01:27 PM
Surr: 2-Fluorophenol	*56.6*		*33-117*	*%REC*	1	7/26/2011 01:27 PM
Surr: 4-Terphenyl-d14	*70.6*		*25-137*	*%REC*	1	7/26/2011 01:27 PM
Surr: Nitrobenzene-d5	*49.6*		*37-107*	*%REC*	1	7/26/2011 01:27 PM
Surr: Phenol-d6	*53.9*		*40-106*	*%REC*	1	7/26/2011 01:27 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		130	µg/Kg-dry	100	7/25/2011 02:39 PM
Ethylbenzene	ND		130	µg/Kg-dry	100	7/25/2011 02:39 PM
m,p-Xylene	**660**		**130**	**µg/Kg-dry**	100	7/25/2011 02:39 PM
o-Xylene	ND		130	µg/Kg-dry	100	7/25/2011 02:39 PM
Toluene	**140**		**130**	**µg/Kg-dry**	100	7/25/2011 02:39 PM
Xylenes, Total	**760**		**400**	**µg/Kg-dry**	100	7/25/2011 02:39 PM
Surr: 1,2-Dichloroethane-d4	*95.6*		*70-120*	*%REC*	100	7/25/2011 02:39 PM
Surr: 4-Bromofluorobenzene	*99.9*		*75-120*	*%REC*	100	7/25/2011 02:39 PM
Surr: Dibromofluoromethane	*90.6*		*85-115*	*%REC*	100	7/25/2011 02:39 PM
Surr: Toluene-d8	*98.2*		*85-115*	*%REC*	100	7/25/2011 02:39 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**21**			**mg/Kg-dry**	1	7/26/2011 08:05 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/21/2011**	Analyst: **MB**
Chromium, Hexavalent	ND		0.65	mg/Kg-dry	1	7/22/2011 03:00 PM
MOISTURE			**A2540 G**			Analyst: **JS**
Moisture	**24**		**0.050**	**% of sample**	1	7/21/2011 01:09 PM
PH			**SW9045D**			Analyst: **EE**
pH	**8.30**	H		**s.u.**	1	7/21/2011 09:40 AM

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

Report Number: F11207-0341
Acount 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: 1107523

DATE RECEIVED: 07/26/2011
DATE REPORTED: 07/28/2011
PAGE: 1
P.O. NUMBER: 20-122010441

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
37069	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	6.61	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	40	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	26	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	4098	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	123.4	-	USDA Handbook 60

ALS Group USA, Corp

Date: *28-Jul-11*

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: BG 1 **Lab ID:** 1107523-03
Collection Date: 7/15/2011 11:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/22/2011**	Analyst: **CES**
Arsenic	**6.8**		**0.88**	**mg/Kg-dry**	2	7/23/2011 01:54 AM
SUBCONTRACTED ANALYSES			**SUBCONTRACT**			Analyst: **A&LGL**
Subcontracted Analyses	**See report**			**as noted**	1	7/27/2011
MOISTURE			**A2540 G**			Analyst: **JS**
Moisture	**15**		**0.050**	**% of sample**	1	7/21/2011 01:09 PM
PH			**SW9045D**			Analyst: **JJG**
pH	**8.44**	H		**s.u.**	1	7/28/2011 10:30 AM

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

ALS Group USA, Corp

Date: *28-Jul-11*

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: BG 2 **Lab ID:** 1107523-04
Collection Date: 7/15/2011 11:20 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/22/2011**	Analyst: **CES**
Arsenic	**7.0**		**0.91**	**mg/Kg-dry**	2	7/23/2011 02:00 AM
MOISTURE			**A2540 G**			Analyst: **JS**
Moisture	**14**		**0.050**	**% of sample**	1	7/21/2011 01:09 PM

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

ALS Group USA, Corp

Date: *28-Jul-11*

Client: HRL Compliance Solutions
Project: PA 21-3 7/15/11 **Work Order:** 1107523
Sample ID: BG 3 **Lab ID:** 1107523-05
Collection Date: 7/15/2011 11:25 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/22/2011**	Analyst: **CES**
Arsenic	**9.5**		**0.71**	**mg/Kg-dry**	2	7/23/2011 02:06 AM
MOISTURE			**A2540 G**			Analyst: **JS**
Moisture	**1.3**		**0.050**	**% of sample**	1	7/21/2011 01:09 PM

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

ALS Group USA, Corp

Date: 28-Jul-11

Client: HRL Compliance Solutions

Work Order: 1107523

Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34511** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-34511-34511** Units: **mg/Kg** Analysis Date: **7/26/2011 12:55 PM**

Client ID: Run ID: **GC8_110726B** SeqNo: **1688521** Prep Date: **7/25/2011** 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	*1.336*	0	*1.667*	0	*80.2*	*39-115*	0			

LCS Sample ID: **DLCSS1-34511-34511** Units: **mg/Kg** Analysis Date: **7/26/2011 11:46 AM**

Client ID: Run ID: **GC8_110726B** SeqNo: **1688519** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	158.9	4.2	166.7	0	95.3	60-130	0			
Surr: 4-Terphenyl-d14	*1.241*	0	*1.667*	0	*74.4*	*39-115*	0			

LCSD Sample ID: **DLCSDS1-34511-34511** Units: **mg/Kg** Analysis Date: **7/26/2011 12:08 PM**

Client ID: Run ID: **GC8_110726B** SeqNo: **1688520** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	176.4	4.2	166.7	0	106	60-130	158.9	10.4	30	
Surr: 4-Terphenyl-d14	*1.314*	0	*1.667*	0	*78.9*	*39-115*	1.241	*5.77*	*30*	

MS Sample ID: **1107555-03B MS** Units: **mg/Kg** Analysis Date: **7/26/2011 02:25 PM**

Client ID: Run ID: **GC8_110726B** SeqNo: **1688522** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	244.5	8.2	326.5	0	74.9	60-130	0			
Surr: 4-Terphenyl-d14	*2.23*	0	*3.265*	0	*68.3*	*39-115*	0			

MSD Sample ID: **1107555-03B MSD** Units: **mg/Kg** Analysis Date: **7/26/2011 02:25 PM**

Client ID: Run ID: **GC8_110726B** SeqNo: **1688533** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	260.1	8.1	325.2	0	80	60-130	244.5	6.2	30	
Surr: 4-Terphenyl-d14	*2.354*	0	*3.252*	0	*72.4*	*39-115*	2.23	*5.41*	*30*	

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **R92637** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-R92637-R92637** Units: **µg/L** Analysis Date: **7/25/2011 01:06 PM**
Client ID: Run ID: **GC9_110725A** SeqNo: **1686947** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	*108.1*	0	*100*	0	*108*	*70-130*	0			

LCS Sample ID: **LCS-R92637-R92637** Units: **µg/L** Analysis Date: **7/25/2011 11:48 AM**
Client ID: Run ID: **GC9_110725A** SeqNo: **1686945** 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)	27480	200	25000	0	110	70-130	0			
Surr: Toluene-d8	*108.8*	0	*100*	0	*109*	*70-130*	0			

LCSD Sample ID: **LCSD-R92637-R92637** Units: **µg/L** Analysis Date: **7/25/2011 12:14 PM**
Client ID: Run ID: **GC9_110725A** SeqNo: **1686946** 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)	25720	200	25000	0	103	70-130	27480	6.63	30	
Surr: Toluene-d8	*108.8*	0	*100*	0	*109*	*70-130*	108.8	*0.0184*	*30*	

MS Sample ID: **1107497-03C MS** Units: **µg/L** Analysis Date: **7/25/2011 10:09 PM**
Client ID: Run ID: **GC9_110725A** SeqNo: **1686959** 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)	29310	200	25000	0	117	70-130	0			
Surr: Toluene-d8	*113.6*	0	*100*	0	*114*	*70-130*	0			

MSD Sample ID: **1107497-03C MSD** Units: **µg/L** Analysis Date: **7/25/2011 10:34 PM**
Client ID: Run ID: **GC9_110725A** SeqNo: **1686960** 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)	28140	200	25000	0	113	70-130	29310	4.05	30	
Surr: Toluene-d8	*111.3*	0	*100*	0	*111*	*70-130*	113.6	*2.06*	*30*	

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34533** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-34533-34533** Units: **mg/Kg** Analysis Date: **7/26/2011 01:39 PM**
Client ID: Run ID: **HG1_110726A** SeqNo: **1687176** Prep Date: **7/26/2011** 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-34533-34533** Units: **mg/Kg** Analysis Date: **7/26/2011 01:41 PM**
Client ID: Run ID: **HG1_110726A** SeqNo: **1687177** Prep Date: **7/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1665	0.020	0.1665	0	100	80-120	0			

LCSD Sample ID: **LCSD-34533-34533** Units: **mg/Kg** Analysis Date: **7/26/2011 01:44 PM**
Client ID: Run ID: **HG1_110726A** SeqNo: **1687178** Prep Date: **7/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1681	0.020	0.1665	0	101	80-120	0.1665	0.946	20	

MS Sample ID: **1107559-05AMS** Units: **mg/Kg** Analysis Date: **7/26/2011 02:25 PM**
Client ID: Run ID: **HG1_110726A** SeqNo: **1687197** Prep Date: **7/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1651	0.019	0.1601	-0.001202	104	75-125	0			

MSD Sample ID: **1107559-05AMSD** Units: **mg/Kg** Analysis Date: **7/26/2011 02:32 PM**
Client ID: Run ID: **HG1_110726A** SeqNo: **1687202** Prep Date: **7/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1603	0.019	0.1576	-0.001202	103	75-125	0.1651	2.91	35	

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34476** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-34476-34476** Units: **mg/Kg** Analysis Date: **7/22/2011 11:19 PM**
Client ID: Run ID: **ICPMS1_110722C** SeqNo: **1684820** Prep Date: **7/22/2011** 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	0.0061	0.25								J
Copper	ND	0.25								
Lead	0.00156	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.03463	0.50								J

LCS Sample ID: **LCS-34476-34476** Units: **mg/Kg** Analysis Date: **7/22/2011 11:25 PM**
Client ID: Run ID: **ICPMS1_110722C** SeqNo: **1684821** Prep Date: **7/22/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.368	0.25	5	0	87.4	80-120	0			
Barium	4.79	0.25	5	0	95.8	80-120	0			
Cadmium	4.574	0.10	5	0	91.5	80-120	0			
Chromium	4.668	0.25	5	0	93.4	80-120	0			
Copper	4.71	0.25	5	0	94.2	80-120	0			
Lead	4.881	0.25	5	0	97.6	80-120	0			
Nickel	4.73	0.25	5	0	94.6	80-120	0			
Selenium	4.228	0.25	5	0	84.6	80-120	0			
Silver	4.44	0.25	5	0	88.8	80-120	0			
Zinc	4.556	0.50	5	0	91.1	80-120	0			

LCSD Sample ID: **LCSD-34476-34476** Units: **mg/Kg** Analysis Date: **7/22/2011 11:31 PM**
Client ID: Run ID: **ICPMS1_110722C** SeqNo: **1684822** Prep Date: **7/22/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.628	0.25	5	0	92.6	80-120	4.368	5.78	20	
Barium	4.887	0.25	5	0	97.7	80-120	4.79	2.02	20	
Cadmium	4.574	0.10	5	0	91.5	80-120	4.574	0	20	
Chromium	4.756	0.25	5	0	95.1	80-120	4.668	1.87	20	
Copper	4.792	0.25	5	0	95.8	80-120	4.71	1.73	20	
Lead	4.794	0.25	5	0	95.9	80-120	4.881	1.8	20	
Nickel	4.808	0.25	5	0	96.2	80-120	4.73	1.65	20	
Selenium	4.433	0.25	5	0	88.7	80-120	4.228	4.73	20	
Silver	4.538	0.25	5	0	90.8	80-120	4.44	2.18	20	
Zinc	4.57	0.50	5	0	91.4	80-120	4.556	0.296	20	

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34476** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: **1107496-03AMS** Units: **mg/Kg** Analysis Date: **7/22/2011 11:49 PM**

Client ID: Run ID: **ICPMS1_110722C** SeqNo: **1684825** Prep Date: **7/22/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	29.72	1.6	7.987	19.71	125	80-120	0			S
Barium	522.7	1.6	7.987	229.1	3680	80-120	0			SO
Cadmium	7.818	0.64	7.987	0.2663	94.5	80-120	0			
Chromium	14.73	1.6	7.987	6.902	97.9	80-120	0			
Copper	9.687	1.6	7.987	2.252	93.1	80-120	0			
Lead	10.54	1.6	7.987	2.846	96.4	80-120	0			
Nickel	18.44	1.6	7.987	7.524	137	80-120	0			S
Selenium	8.182	1.6	7.987	1.033	89.5	80-120	0			
Silver	6.997	1.6	7.987	0.03368	87.2	80-120	0			
Zinc	47.28	3.2	7.987	29.51	223	80-120	0			S

MSD Sample ID: **1107496-03AMSD** Units: **mg/Kg** Analysis Date: **7/22/2011 11:55 PM**

Client ID: Run ID: **ICPMS1_110722C** SeqNo: **1684826** Prep Date: **7/22/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	28.16	1.6	7.837	19.71	108	80-120	29.72	5.39	25	
Barium	321.3	1.6	7.837	229.1	1180	80-120	522.7	47.7	25	SRO
Cadmium	7.652	0.63	7.837	0.2663	94.2	80-120	7.818	2.14	25	
Chromium	14.23	1.6	7.837	6.902	93.5	80-120	14.73	3.41	25	
Copper	8.812	1.6	7.837	2.252	83.7	80-120	9.687	9.46	25	
Lead	10.58	1.6	7.837	2.846	98.7	80-120	10.54	0.378	25	
Nickel	15.06	1.6	7.837	7.524	96.1	80-120	18.44	20.2	25	
Selenium	8.288	1.6	7.837	1.033	92.6	80-120	8.182	1.29	25	
Silver	6.881	1.6	7.837	0.03368	87.4	80-120	6.997	1.67	25	
Zinc	38.34	3.1	7.837	29.51	113	80-120	47.28	20.9	25	

The following samples were analyzed in this batch:

1107523-01A	1107523-02A	1107523-03A
1107523-04A	1107523-05A	

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34510** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-34510-34510** Units: **µg/Kg** Analysis Date: **7/26/2011 01:49 PM**

Client ID: Run ID: **SVMS6_110726A** SeqNo: **1687090** Prep Date: **7/25/2011** 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	*1052*	0	*1667*	0	*63.1*	*34-140*	0			
Surr: 2-Fluorobiphenyl	*960.3*	0	*1667*	0	*57.6*	*12-100*	0			
Surr: 2-Fluorophenol	*1090*	0	*1667*	0	*65.4*	*33-117*	0			
Surr: 4-Terphenyl-d14	*1123*	0	*1667*	0	*67.4*	*25-137*	0			
Surr: Nitrobenzene-d5	*978*	0	*1667*	0	*58.7*	*37-107*	0			
Surr: Phenol-d6	*1109*	0	*1667*	0	*66.5*	*40-106*	0			

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34510** Instrument ID **SVMS6** Method: **SW8270**

LCS Sample ID: **SLCSS1-34510-34510** Units: **µg/Kg** Analysis Date: **7/26/2011 11:37 AM**

Client ID: Run ID: **SVMS6_110726A** SeqNo: **1687087** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	900	30	1333	0	67.5	45-110	0			
Anthracene	938	30	1333	0	70.4	55-105	0			
Benzo(a)anthracene	902.3	30	1333	0	67.7	50-110	0			
Benzo(a)pyrene	980.3	30	1333	0	73.5	50-110	0			
Benzo(b)fluoranthene	967.3	30	1333	0	72.6	45-115	0			
Benzo(g,h,i)perylene	1008	30	1333	0	75.6	40-125	0			
Benzo(k)fluoranthene	971.3	30	1333	0	72.9	45-115	0			
Chrysene	907.3	30	1333	0	68.1	55-110	0			
Dibenzo(a,h)anthracene	1008	30	1333	0	75.6	40-125	0			
Fluoranthene	967.7	30	1333	0	72.6	55-115	0			
Fluorene	900.7	30	1333	0	67.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1001	30	1333	0	75.1	40-120	0			
Naphthalene	823.3	30	1333	0	61.8	40-105	0			
Pyrene	962.3	30	1333	0	72.2	45-125	0			
Surr: 2,4,6-Tribromophenol	*996.3*	0	*1667*	0	*59.8*	*34-140*	0			
Surr: 2-Fluorobiphenyl	*853*	0	*1667*	0	*51.2*	*12-100*	0			
Surr: 2-Fluorophenol	*885.3*	0	*1667*	0	*53.1*	*33-117*	0			
Surr: 4-Terphenyl-d14	*1017*	0	*1667*	0	*61*	*25-137*	0			
Surr: Nitrobenzene-d5	*878.7*	0	*1667*	0	*52.7*	*37-107*	0			
Surr: Phenol-d6	*871*	0	*1667*	0	*52.3*	*40-106*	0			

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34510** Instrument ID **SVMS6** Method: **SW8270**

LCSD Sample ID: **SLCSDS1-34510-34510** Units: **µg/Kg** Analysis Date: **7/26/2011 12:03 PM**

Client ID: Run ID: **SVMS6_110726A** SeqNo: **1687089** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	746	30	1333	0	56	45-110	900	18.7	25	
Anthracene	779.3	30	1333	0	58.5	55-105	938	18.5	25	
Benzo(a)anthracene	774	30	1333	0	58.1	50-110	902.3	15.3	25	
Benzo(a)pyrene	814	30	1333	0	61.1	50-110	980.3	18.5	25	
Benzo(b)fluoranthene	771.7	30	1333	0	57.9	45-115	967.3	22.5	25	
Benzo(g,h,i)perylene	832.7	30	1333	0	62.5	40-125	1008	19.1	25	
Benzo(k)fluoranthene	828.3	30	1333	0	62.1	45-115	971.3	15.9	25	
Chrysene	748	30	1333	0	56.1	55-110	907.3	19.3	25	
Dibenzo(a,h)anthracene	825.7	30	1333	0	61.9	40-125	1008	19.9	25	
Fluoranthene	814.7	30	1333	0	61.1	55-115	967.7	17.2	25	
Fluorene	754.3	30	1333	0	56.6	50-110	900.7	17.7	25	
Indeno(1,2,3-cd)pyrene	830.7	30	1333	0	62.3	40-120	1001	18.6	25	
Naphthalene	711.3	30	1333	0	53.4	40-105	823.3	14.6	25	
Pyrene	801.7	30	1333	0	60.1	45-125	962.3	18.2	25	
Surr: 2,4,6-Tribromophenol	*818*	0	*1667*	0	*49.1*	*34-140*	996.3	*19.7*	*40*	
Surr: 2-Fluorobiphenyl	*712*	0	*1667*	0	*42.7*	*12-100*	853	*18*	*40*	
Surr: 2-Fluorophenol	*752.3*	0	*1667*	0	*45.1*	*33-117*	885.3	*16.2*	*40*	
Surr: 4-Terphenyl-d14	*852*	0	*1667*	0	*51.1*	*25-137*	1017	*17.6*	*40*	
Surr: Nitrobenzene-d5	*746.7*	0	*1667*	0	*44.8*	*37-107*	878.7	*16.2*	*40*	
Surr: Phenol-d6	*748*	0	*1667*	0	*44.9*	*40-106*	871	*15.2*	*40*	

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34510** Instrument ID **SVMS6** Method: **SW8270**

MS Sample ID: **1107555-03B MS** Units: **µg/Kg** Analysis Date: **7/26/2011 05:31 PM**

Client ID: Run ID: **SVMS6_110726A** SeqNo: **1688033** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1942	59	2637	0	73.7	45-110	0			
Anthracene	2059	59	2637	0	78.1	55-105	0			
Benzo(a)anthracene	2007	59	2637	0	76.1	50-110	0			
Benzo(a)pyrene	2191	59	2637	0	83.1	50-110	0			
Benzo(b)fluoranthene	2287	59	2637	0	86.7	45-115	0			
Benzo(g,h,i)perylene	2348	59	2637	0	89.1	40-125	0			
Benzo(k)fluoranthene	2069	59	2637	0	78.5	45-115	0			
Chrysene	2102	59	2637	0	79.7	55-110	0			
Dibenzo(a,h)anthracene	2316	59	2637	0	87.9	40-125	0			
Fluoranthene	2127	59	2637	0	80.7	55-115	0			
Fluorene	1963	59	2637	0	74.5	50-110	0			
Indeno(1,2,3-cd)pyrene	2295	59	2637	0	87	40-120	0			
Naphthalene	1906	59	2637	0	72.3	40-105	0			
Pyrene	2173	59	2637	0	82.4	45-125	0			
Surr: 2,4,6-Tribromophenol	*2337*	0	*3296*	0	*70.9*	*34-140*	0			
Surr: 2-Fluorobiphenyl	*1888*	0	*3296*	0	*57.3*	*12-100*	0			
Surr: 2-Fluorophenol	*2013*	0	*3296*	0	*61.1*	*33-117*	0			
Surr: 4-Terphenyl-d14	*2242*	0	*3296*	0	*68*	*25-137*	0			
Surr: Nitrobenzene-d5	*2047*	0	*3296*	0	*62.1*	*37-107*	0			
Surr: Phenol-d6	*1993*	0	*3296*	0	*60.5*	*40-106*	0			

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34510** Instrument ID **SVMS6** Method: **SW8270**

MSD Sample ID: **1107555-03B MSD** Units: **µg/Kg** Analysis Date: **7/26/2011 05:57 PM**

Client ID: Run ID: **SVMS6_110726A** SeqNo: **1688034** Prep Date: **7/25/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1951	60	2654	0	73.5	45-110	1942	0.485	30	
Anthracene	2048	60	2654	0	77.2	55-105	2059	0.537	30	
Benzo(a)anthracene	1984	60	2654	0	74.8	50-110	2007	1.17	30	
Benzo(a)pyrene	2173	60	2654	0	81.9	50-110	2191	0.83	30	
Benzo(b)fluoranthene	2280	60	2654	0	85.9	45-115	2287	0.301	30	
Benzo(g,h,i)perylene	2327	60	2654	0	87.7	40-125	2348	0.901	30	
Benzo(k)fluoranthene	2002	60	2654	0	75.4	45-115	2069	3.31	30	
Chrysene	2089	60	2654	0	78.7	55-110	2102	0.576	30	
Dibenzo(a,h)anthracene	2314	60	2654	0	87.2	40-125	2316	0.0879	30	
Fluoranthene	2129	60	2654	0	80.2	55-115	2127	0.0954	30	
Fluorene	1940	60	2654	0	73.1	50-110	1963	1.18	30	
Indeno(1,2,3-cd)pyrene	2287	60	2654	0	86.2	40-120	2295	0.327	30	
Naphthalene	1872	60	2654	0	70.6	40-105	1906	1.76	30	
Pyrene	2159	60	2654	0	81.4	45-125	2173	0.628	30	
Surr: 2,4,6-Tribromophenol	*2308*	0	*3318*	0	*69.6*	*34-140*	2337	*1.22*	*40*	
Surr: 2-Fluorobiphenyl	*1872*	0	*3318*	0	*56.4*	*12-100*	1888	*0.823*	*40*	
Surr: 2-Fluorophenol	*2020*	0	*3318*	0	*60.9*	*33-117*	2013	*0.36*	*40*	
Surr: 4-Terphenyl-d14	*2228*	0	*3318*	0	*67.2*	*25-137*	2242	*0.618*	*40*	
Surr: Nitrobenzene-d5	*2040*	0	*3318*	0	*61.5*	*37-107*	2047	*0.348*	*40*	
Surr: Phenol-d6	*1995*	0	*3318*	0	*60.1*	*40-106*	1993	*0.124*	*40*	

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **R92572** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110725-R92572** Units: **µg/L** Analysis Date: **7/25/2011 12:54 PM**

Client ID: Run ID: **VMS8_110725A** SeqNo: **1685942** 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	2.0								
Surr: 1,2-Dichloroethane-d4	*97.39*	0	*100*	0	*97.4*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*97.08*	0	*100*	0	*97.1*	*75-120*	0			
Surr: Dibromofluoromethane	*97.8*	0	*100*	0	*97.8*	*85-115*	0			
Surr: Toluene-d8	*96.63*	0	*100*	0	*96.6*	*85-120*	0			

LCS Sample ID: **VLCSW1-110725-R92572** Units: **µg/L** Analysis Date: **7/25/2011 11:40 AM**

Client ID: Run ID: **VMS8_110725A** SeqNo: **1685306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.26	1.0	20	0	96.3	80-120	0			
Ethylbenzene	19.66	1.0	20	0	98.3	75-125	0			
m,p-Xylene	39.93	2.0	40	0	99.8	75-130	0			
o-Xylene	19.54	1.0	20	0	97.7	80-120	0			
Toluene	19.5	1.0	20	0	97.5	75-120	0			
Xylenes, Total	59.47	2.0	60	0	99.1	75-130	0			
Surr: 1,2-Dichloroethane-d4	*94.58*	0	*100*	0	*94.6*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*99.54*	0	*100*	0	*99.5*	*75-120*	0			
Surr: Dibromofluoromethane	*100.7*	0	*100*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*98.84*	0	*100*	0	*98.8*	*85-120*	0			

LCSD Sample ID: **VLCSDW1-110725-R92572** Units: **µg/L** Analysis Date: **7/25/2011 12:05 PM**

Client ID: Run ID: **VMS8_110725A** SeqNo: **1685307** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.43	1.0	20	0	102	80-120	19.26	5.9	30	
Ethylbenzene	20.24	1.0	20	0	101	75-125	19.66	2.91	30	
m,p-Xylene	40.65	2.0	40	0	102	75-130	39.93	1.79	30	
o-Xylene	20.01	1.0	20	0	100	80-120	19.54	2.38	30	
Toluene	20.33	1.0	20	0	102	75-120	19.5	4.17	30	
Xylenes, Total	60.66	2.0	60	0	101	75-130	59.47	1.98	30	
Surr: 1,2-Dichloroethane-d4	*97.05*	0	*100*	0	*97*	*70-120*	94.58	*2.58*	*30*	
Surr: 4-Bromofluorobenzene	*99.76*	0	*100*	0	*99.8*	*75-120*	99.54	*0.221*	*30*	
Surr: Dibromofluoromethane	*102*	0	*100*	0	*102*	*85-115*	100.7	*1.24*	*30*	
Surr: Toluene-d8	*98.15*	0	*100*	0	*98.2*	*85-120*	98.84	*0.701*	*30*	

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **R92572** Instrument ID **VMS8** Method: **SW8260**

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **34503** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-34503-34503** Units: **mg/Kg** Analysis Date: **7/22/2011 03:00 PM**
Client ID: Run ID: **WETCHEM_110722F** SeqNo: **1684520** Prep Date: **7/21/2011** 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-34503-34503** Units: **mg/Kg** Analysis Date: **7/22/2011 03:00 PM**
Client ID: Run ID: **WETCHEM_110722F** SeqNo: **1684518** Prep Date: **7/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.864	0.48	1.938	0	96.2	75-110	0			

LCSD Sample ID: **LCSD-34503-34503** Units: **mg/Kg** Analysis Date: **7/22/2011 03:00 PM**
Client ID: Run ID: **WETCHEM_110722F** SeqNo: **1684519** Prep Date: **7/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.857	0.48	1.931	0	96.2	75-110	1.864	0.387	20	

MS Sample ID: **1107476-05A MS** Units: **mg/Kg** Analysis Date: **7/22/2011 03:00 PM**
Client ID: Run ID: **WETCHEM_110722F** SeqNo: **1684514** Prep Date: **7/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.8224	0.48	1.931	0	42.6	60-130	0			S

MSD Sample ID: **1107476-05A MSD** Units: **mg/Kg** Analysis Date: **7/22/2011 03:00 PM**
Client ID: Run ID: **WETCHEM_110722F** SeqNo: **1684515** Prep Date: **7/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.996	0.50	1.984	0	50.2	60-130	0.8224	19.1	30	S

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **R92489** Instrument ID **WETCHEM** Method: **SW9045D**

DUP Sample ID: **1107523-01ADUP** Units: **s.u.** Analysis Date: **7/21/2011 09:40 AM**

Client ID: **Point of Origin** Run ID: **WETCHEM_110721H** SeqNo: **1682860** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.42	0	0	0	0	0-0	8.42	0	20	H

The following samples were analyzed in this batch: 1107523-01A 1107523-02A

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **R92507** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R92507** Units: **% of sample** Analysis Date: **7/21/2011 01:09 PM**
Client ID: Run ID: **MOIST_110721C** SeqNo: **1683714** 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-R92507** Units: **% of sample** Analysis Date: **7/21/2011 01:09 PM**
Client ID: Run ID: **MOIST_110721C** SeqNo: **1683713** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1107511-05BDUP** Units: **% of sample** Analysis Date: **7/21/2011 01:09 PM**
Client ID: Run ID: **MOIST_110721C** SeqNo: **1683695** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.85	0.050	0	0	0	0-0	9.1	7.92	20	

DUP Sample ID: **1107517-01ADUP** Units: **% of sample** Analysis Date: **7/21/2011 01:09 PM**
Client ID: Run ID: **MOIST_110721C** SeqNo: **1683697** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.05	0.050	0	0	0	0-0	15.47	2.75	20	

The following samples were analyzed in this batch:

1107523-01A	1107523-02A	1107523-03A
1107523-04A	1107523-05A	

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

Client: HRL Compliance Solutions
Work Order: 1107523
Project: PA 21-3 7/15/11

QC BATCH REPORT

Batch ID: **R92755C** Instrument ID **WETCHEM** Method: **SW9045D**

DUP Sample ID: **1107523-03ADUP** Units: **s.u.** Analysis Date: **7/28/2011 10:30 AM**

Client ID: **BG 1** Run ID: **WETCHEM_110728K** SeqNo: **1689679** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.45	0	0	0	0	0-0	8.44	0.118	20	H

The following samples were analyzed in this batch: 1107523-03A

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

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1107523

PAGE 1 of 1

DISPOSAL (By Lab) or Return to Client

PROJECT NAME	PA 21-3	SAMPLER	Reed Wold
PROJECT No.		SITE ID	PA 21-3
		EDD FORMAT	
COMPANY NAME	HRL COMPLIANCE SOLUTIONS Inc.	PURCHASE ORDER	
SEND REPORT TO	Mark Mumby	BILL TO COMPANY	HRL Compliance
ADDRESS	744 HORIZON CT SUITE 140	INVOICE ATTN TO	Mark Mumby
CITY / STATE / ZIP	GRAND JUNCTION CO 81506	ADDRESS	
PHONE	970-243-3271	CITY / STATE / ZIP	
FAX	970-243-3280	PHONE	
E-MAIL	Mmumby@hrlcomp.com	FAX	
		E-MAIL	

DATE 7/20/2011

TURNAROUND 3 day

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX/ GRO	DRO/ PAH/ Metals (table 910-1)	SAR/ EC/ PH	Arsenic
1	Point of Origin	So	7/15/2011	10:10	4	8		X	X	X	
2	Off site	SO	7/15/2011	10:15	4	8		X	X	X	
3	BG 1	SO	7/15/2011	11:15	4	8				X	X
4	BG 2	SO	7/15/2011	11:20	4	8					X
5	BG 3	SO	7/15/2011	11:25	4	8					X

*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: 0.8°c

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		Reed Wold	7/20/11	5 pm
RECEIVED BY		Kerri Wiffenca	7/21/11	1125
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Subcontractor:
A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft. Wayne, IN 46808
TEL: (260) 483-4759
FAX: (260) 483-5274
Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Date: 22-Jul-11
COC ID: 3010
Due Date 25-Jul-11

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	1107523	A Subcontracted Analyses (SUBCONTRACT)
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
1107523-01B (Point of Origin)	Soil	15/Jul/2011 10:10	(1) MISC	X									
1107523-02B (Off Site)	Soil	15/Jul/2011 10:15	(1) MISC	X									
1107523-03B (BG 1)	Soil	15/Jul/2011 11:15	(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
	7/22/11	FedEx			Std
Relinquished by:	Date/Time	Received by:	Date/Time		

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **21-Jul-11 11:25**

Work Order: **1107523** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 21-Jul-11 (Date) Reviewed by: Ann Preston (eSignature) 22-Jul-11 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.8 C		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

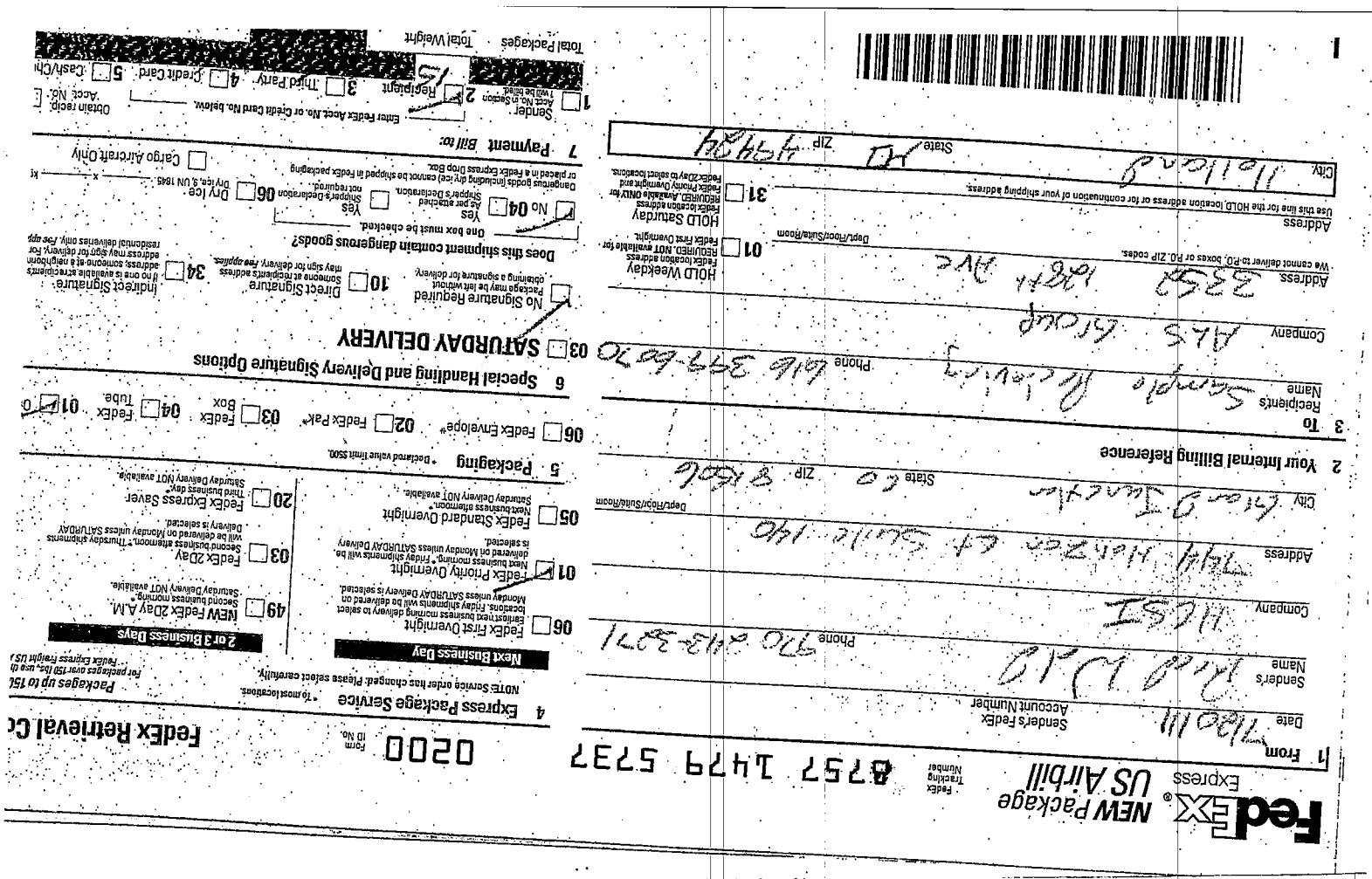
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



Terms And Conditions Summary

For the current FedEx Service Guide, which contains the complete Terms and Conditions, go to ***fedex.com.***

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Responsibility For Packaging And Completing Airbill You are responsible for adequately packaging your goods and properly filling out this A… …er of packages and/or weight … …ll be based on our best estimate of t… …received and/or an estimated "del… determined by us.

Responsibility For F… …e us different payment instructions, yo… …responsible for all delivery costs, as wel… …either returning your package to you or warehousing it pending disposition.

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- We won't be liable:
  - for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking, or addressing, or those of the recipient or anyone else with an interest in the package.
  - if you or the recipient violates any of the terms of our Agreement.
  - for loss of or damage to shipments of prohibited items.
  - for loss, damage, or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts of public authorities with ac…

Declar…

- The l… FedE…
- For o… US$5… of ext… value …
- Items of extraordinary value include shipments containing such items as artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in the current FedEx Service Guide.
- You may send more than one package on this Airbill and fill in the total declared value for all packages, not to exceed the US$500, US$1,000, or US$50,000 per package limit described above. (Example: 5 packages can have a total declared value of up to US$250,000.) In that case, our liability is limited to the actual value of the package(s) lost or damaged, but may not exceed the maximum allowable declared value(s) or the total declared value, whichever is less. You are responsible for proving the actual loss or damage.

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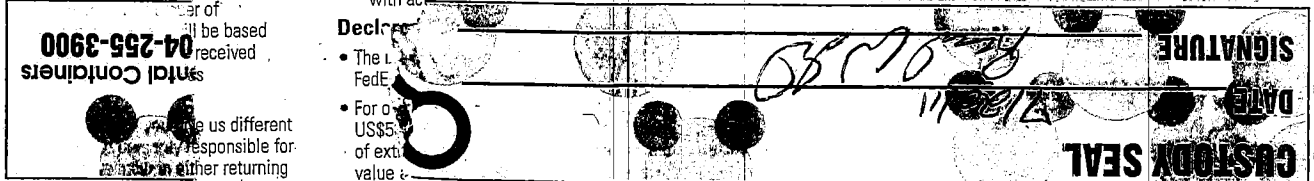
If the recipient accepts your package without noting any damage on the delivery record, we will assume the package was delivered in good condition. For us to process your claim, you must make the original shipping cartons and packing



…FedEx Service Guide.

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08-Aug-2011

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

Re: **PA 21-3 Pad LOE 8/1/11** Work Order: **1108050**

Dear Mark,

ALS Environmental received 1 sample on 02-Aug-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 10.

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

Sincerely,

Ann Preston

Electronically approved by: Joseph Ribar

Ann Preston
Project Manager

Certificate No: IL100452

ALS Group USA, Corp

Date: 08-Aug-11

Client: HRL Compliance Solutions
Project: PA 21-3 Pad LOE 8/1/11
Work Order: **1108050**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1108050-01	PT of Origin	Soil		8/1/2011 08:40	8/2/2011 10:00	☐

ALS Group USA, Corp

Date: 08-Aug-11

Client: HRL Compliance Solutions
Project: PA 21-3 Pad LOE 8/1/11
WorkOrder: **1108050**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *08-Aug-11*

Client: HRL Compliance Solutions
Project: PA 21-3 Pad LOE 8/1/11 **Work Order:** 1108050
Sample ID: PT of Origin **Lab ID:** 1108050-01
Collection Date: 8/1/2011 08:40 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
Benzene	ND		110	µg/Kg-dry	100	8/6/2011 12:19 PM
Ethylbenzene	ND		110	µg/Kg-dry	100	8/6/2011 12:19 PM
m,p-Xylene	ND		110	µg/Kg-dry	100	8/6/2011 12:19 PM
o-Xylene	ND		110	µg/Kg-dry	100	8/6/2011 12:19 PM
Toluene	ND		110	µg/Kg-dry	100	8/6/2011 12:19 PM
Xylenes, Total	ND		340	µg/Kg-dry	100	8/6/2011 12:19 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-120*	*%REC*	100	8/6/2011 12:19 PM
Surr: 4-Bromofluorobenzene	*98.5*		*75-120*	*%REC*	100	8/6/2011 12:19 PM
Surr: Dibromofluoromethane	*105*		*85-115*	*%REC*	100	8/6/2011 12:19 PM
Surr: Toluene-d8	*98.2*		*85-115*	*%REC*	100	8/6/2011 12:19 PM
MOISTURE			**A2540 G**			Analyst: **JS**
Moisture	**12**		**0.050**	**% of sample**	1	8/2/2011 02:03 PM

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

Batch ID: **R93100A** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110805-R93100A** Units: **µg/L** Analysis Date: **8/5/2011 09:59 PM**

Client ID: Run ID: **VMS8_110805B** SeqNo: **1697494** 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	2.0								
Surr: 1,2-Dichloroethane-d4	*90.95*	0	*100*	0	*91*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*100.6*	0	*100*	0	*101*	*75-120*	0			
Surr: Dibromofluoromethane	*90.55*	0	*100*	0	*90.6*	*85-115*	0			
Surr: Toluene-d8	*96.14*	0	*100*	0	*96.1*	*85-120*	0			

LCS Sample ID: **VLCSW2-110805-R93100A** Units: **µg/L** Analysis Date: **8/5/2011 08:49 PM**

Client ID: Run ID: **VMS8_110805B** SeqNo: **1697492** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.08	1.0	20	0	100	80-120	0			
Ethylbenzene	20.3	1.0	20	0	102	75-125	0			
m,p-Xylene	41.4	2.0	40	0	104	75-130	0			
o-Xylene	20.14	1.0	20	0	101	80-120	0			
Toluene	20.04	1.0	20	0	100	75-120	0			
Xylenes, Total	61.54	2.0	60	0	103	75-130	0			
Surr: 1,2-Dichloroethane-d4	*106.4*	0	*100*	0	*106*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*99.94*	0	*100*	0	*99.9*	*75-120*	0			
Surr: Dibromofluoromethane	*108.3*	0	*100*	0	*108*	*85-115*	0			
Surr: Toluene-d8	*99.07*	0	*100*	0	*99.1*	*85-120*	0			

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

Client: HRL Compliance Solutions
Work Order: 1108050
Project: PA 21-3 Pad LOE 8/1/11

QC BATCH REPORT

Batch ID: **R93100A** Instrument ID **VMS8** Method: **SW8260**

LCSD Sample ID: **VLCSDW3-110805-R93100A** Units: **µg/L** Analysis Date: **8/5/2011 11:32 PM**
Client ID: Run ID: **VMS8_110805B** SeqNo: **1697520** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.7	1.0	20	0	98.5	80-120	20.08	1.91	30	
Ethylbenzene	20.07	1.0	20	0	100	75-125	20.3	1.14	30	
m,p-Xylene	41.66	2.0	40	0	104	75-130	41.4	0.626	30	
o-Xylene	20.18	1.0	20	0	101	80-120	20.14	0.198	30	
Toluene	19.5	1.0	20	0	97.5	75-120	20.04	2.73	30	
Xylenes, Total	61.84	2.0	60	0	103	75-130	61.54	0.486	30	
Surr: 1,2-Dichloroethane-d4	*108.7*	0	*100*	0	*109*	*70-120*	106.4	*2.14*	*30*	
Surr: 4-Bromofluorobenzene	*103.1*	0	*100*	0	*103*	*75-120*	99.94	*3.1*	*30*	
Surr: Dibromofluoromethane	*111.7*	0	*100*	0	*112*	*85-115*	108.3	*3.1*	*30*	
Surr: Toluene-d8	*99.63*	0	*100*	0	*99.6*	*85-120*	99.07	*0.564*	*30*	

MS Sample ID: **1108056-04A MS** Units: **µg/L** Analysis Date: **8/6/2011 05:47 AM**
Client ID: Run ID: **VMS8_110805B** SeqNo: **1697606** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.37	1.0	20	0	102	80-120	0			
Ethylbenzene	20.4	1.0	20	0	102	75-125	0			
m,p-Xylene	41.47	2.0	40	0	104	75-130	0			
o-Xylene	19.91	1.0	20	0	99.6	80-120	0			
Toluene	20.21	1.0	20	0	101	75-120	0			
Xylenes, Total	61.38	2.0	60	0	102	75-130	0			
Surr: 1,2-Dichloroethane-d4	*105.5*	0	*100*	0	*106*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*100.2*	0	*100*	0	*100*	*75-120*	0			
Surr: Dibromofluoromethane	*103.7*	0	*100*	0	*104*	*85-115*	0			
Surr: Toluene-d8	*99.82*	0	*100*	0	*99.8*	*85-120*	0			

MSD Sample ID: **1108056-04A MSD** Units: **µg/L** Analysis Date: **8/6/2011 06:10 AM**
Client ID: Run ID: **VMS8_110805B** SeqNo: **1697607** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.17	1.0	20	0	101	80-120	20.37	0.987	30	
Ethylbenzene	20.25	1.0	20	0	101	75-125	20.4	0.738	30	
m,p-Xylene	41.09	2.0	40	0	103	75-130	41.47	0.921	30	
o-Xylene	19.93	1.0	20	0	99.6	80-120	19.91	0.1	30	
Toluene	19.83	1.0	20	0	99.2	75-120	20.21	1.9	30	
Xylenes, Total	61.02	2.0	60	0	102	75-130	61.38	0.588	30	
Surr: 1,2-Dichloroethane-d4	*105.4*	0	*100*	0	*105*	*70-120*	105.5	*0.0853*	*30*	
Surr: 4-Bromofluorobenzene	*100.3*	0	*100*	0	*100*	*75-120*	100.2	*0.12*	*30*	
Surr: Dibromofluoromethane	*106.5*	0	*100*	0	*106*	*85-115*	103.7	*2.63*	*30*	
Surr: Toluene-d8	*99.37*	0	*100*	0	*99.4*	*85-120*	99.82	*0.452*	*30*	

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

Client: HRL Compliance Solutions
Work Order: 1108050
Project: PA 21-3 Pad LOE 8/1/11

QC BATCH REPORT

Batch ID: **R93100A** Instrument ID **VMS8** Method: **SW8260**

The following samples were analyzed in this batch:	1108050-01A

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

Client: HRL Compliance Solutions
Work Order: 1108050
Project: PA 21-3 Pad LOE 8/1/11

QC BATCH REPORT

Batch ID: **R92949** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R92949** Units: **% of sample** Analysis Date: **8/2/2011 02:03 PM**
Client ID: Run ID: **MOIST_110802C** SeqNo: **1694306** 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-R92949** Units: **% of sample** Analysis Date: **8/2/2011 02:03 PM**
Client ID: Run ID: **MOIST_110802C** SeqNo: **1694305** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1108026-01ADUP** Units: **% of sample** Analysis Date: **8/2/2011 02:03 PM**
Client ID: Run ID: **MOIST_110802C** SeqNo: **1694284** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.6	0.050	0	0	0	0-0	0.62	3.28	20	

DUP Sample ID: **1108045-01ADUP** Units: **% of sample** Analysis Date: **8/2/2011 02:03 PM**
Client ID: Run ID: **MOIST_110802C** SeqNo: **1694298** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.11	0.050	0	0	0	0-0	14.54	3	20	

The following samples were analyzed in this batch: 1108050-01A

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

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1108050

PAGE 1 of 1

DISPOSAL By Lab or Return to Client

PROJECT NAME	PA 21-3 Pad LOE	SAMPLER	Reed Wold	DATE	8/1/2011
PROJECT No.		SITE ID	PA 21-3	TURNAROUND	Standard
		EDD FORMAT			
		PURCHASE ORDER			
COMPANY NAME	HRL COMPLIANCE SOLUTIONS Inc.	BILL TO COMPANY	HRL Compliance		
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Mark Mumby		
ADDRESS	744 HORIZON CT SUITE 140	ADDRESS			
CITY / STATE / ZIP	GRAND JUNCTION CO 81506	CITY / STATE / ZIP			
PHONE	970-243-3271	PHONE			
FAX	970-243-3280	FAX			
E-MAIL	Mmumby@hrlcomp.com	E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX
01	PT of Origin	SO	8/1/2011	8:40	1	8		X

*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:

3.2°

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	Reed Wold	Reed Wold	8/1/11	5 pm
RECEIVED BY		WJCAREY	8/2/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **02-Aug-11 10:00**

Work Order: **1108050** Received by: **WJC**

Checklist completed by Diane Shaw (eSignature) 02-Aug-11 (Date) Reviewed by: Ann Preston (eSignature) 03-Aug-11 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

08-Nov-2011

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

Re: **Gonzo PA 21-3 11-230 10/28/11** Work Order: **1111081**

Dear Mark,

ALS Environmental received 1 sample 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 10.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: IL100452

ALS Group USA, Corp

Date: 08-Nov-11

Client: HRL Compliance Solutions
Project: Gonzo PA 21-3 11-230 10/28/11
Work Order: **1111081**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1111081-01	Off Pad	Soil		10/28/2011 12:00	11/2/2011 10:00	☐

ALS Group USA, Corp

Date: 08-Nov-11

Client: HRL Compliance Solutions
Project: Gonzo PA 21-3 11-230 10/28/11
WorkOrder: **1111081**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
as noted	
s.u.	Standard Units

ALS Group USA, Corp

Date: *08-Nov-11*

Client: HRL Compliance Solutions
Project: Gonzo PA 21-3 11-230 10/28/11 **Work Order:** 1111081
Sample ID: Off Pad **Lab ID:** 1111081-01
Collection Date: 10/28/2011 12:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SUBCONTRACTED ANALYSES			**SUBCONTRACT**			Analyst: **A&LGL**
Subcontracted Analyses	**Rcvd 11/5/11**			**as noted**	1	11/5/2011
PH			**SW9045D**			Analyst: **JJG**
pH	**8.28**			**s.u.**	1	11/2/2011 08:40 AM

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

Report Number: F11307-0730
Acount 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: 1111081

DATE RECEIVED: 11/03/2011
DATE REPORTED: 11/05/2011
PAGE: 1
P.O. NUMBER: 20-122011150

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
43750	01B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.50	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	63	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	23	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	45	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	1.2	-	USDA Handbook 60

ALS Group USA, Corp

Date: 08-Nov-11

Client: HRL Compliance Solutions

Work Order: 1111081

Project: Gonzo PA 21-3 11-230 10/28/11

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			

DUP Sample ID: **1111065-01A DUP** Units: **s.u.** Analysis Date: **11/2/2011 08:40 AM**

Client ID: 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	

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	

The following samples were analyzed in this batch: 1111081-01A

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

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1111081

PAGE 1 of 1

DISPOSAL: By Lab or Return to Client

PROJECT NAME	Gonzo PA 21-3	SAMPLER	Reed Wold
PROJECT No.	HCSI Job # 11-230	SITE ID	PA 21-3
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HRL Compliance Solutions, Inc.	BILL TO COMPANY	
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	
ADDRESS	744 Horizon Ct. Suite 140	ADDRESS	
CITY / STATE / ZIP	Grand Junction, CO. 81506	CITY / STATE / ZIP	
PHONE	970-243-3271	PHONE	
FAX	970-243-3280	FAX	
E-MAIL	mmumby@hrlcomp.com	E-MAIL	

DATE: 10/31/2011

TURNAROUND: 5 days STD.

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	SAR, EC, Ph
61	Off Pad	Soil	10/28/2011	12:00 PM	1	8		X

*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: 4.4 c

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 PINGAR	10/31/2011	5:00 PM
RECEIVED BY		Diane F Sha	11/2/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental

Subcontractor:
A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft. Wayne, IN 46808
TEL: (260) 483-4759
FAX: (260) 483-5274
Acct #: 91000

Salesperson: **Debbie Fazio**

CHAIN-OF-CUSTODY RECORD

Date: 02-Nov-11
COC ID: 3274
Due Da 08-Nov-11

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	20-122011150	Project Name	1111081	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
1111081-01B	Soil	28/Oct/2011 12:00	(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
[signature]	11/2/11 1330				Std
Relinquished by:	Date/Time	Received by:	Date/Time		

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **02-Nov-11 10:00**

Work Order: **1111081** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 02-Nov-11 (Date) Reviewed by: Alex Csaszar (eSignature) 02-Nov-11 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.4 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

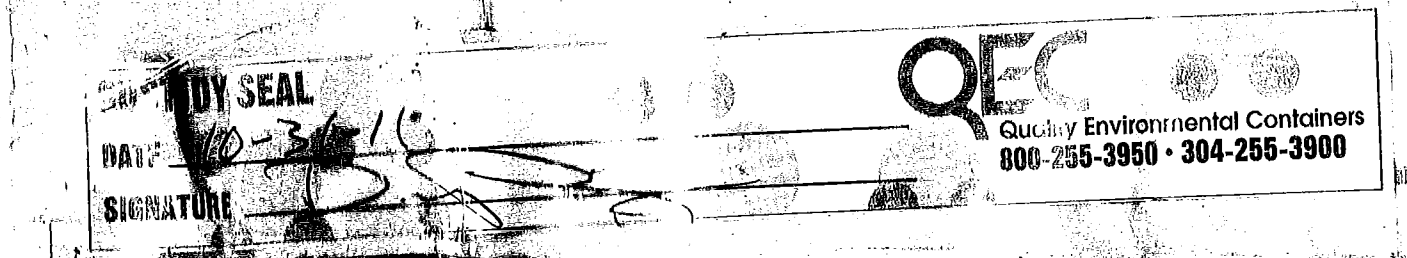
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



FedEx Express NEW Package US Airbill

FedEx Tracking Number 8769 1479 5772

Form ID No. 0200

FedEx Retrieval Copy

1 From

Date

Sender's Name

Phone

Company

Address

Dept/Floor/Suite/Room

City

State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City

State ZIP

01 HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8769 1479 5772

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

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.

2nd Business Day

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

03 SATURDAY DELIVERY

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

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

34 Indirect Signature
If no one is available at recipient's address, someone at a neighboring 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.

06 Dry Ice
Dry Ice, 9, UN 1845

Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

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

Obtain recip. Acct. No.

1 Sender Acct. No. in Section 1 will be billed. 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages

Total Weight

612

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