

State of Colorado
Oil and Gas Conservation Commission

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



SUNDRY NOTICE

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

1. OGCC Operator Number: 6720	4. Contact Name: Habib Guerrero	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Robert L. Bayless LLC	Phone: 505-564-7810	
3. Address: PO BOX 168 City: Farmington State: NM Zip: 87499	Fax: 505-326-6911	
5. API Number 05- See Page 2	OGCC Facility ID Number N/A	Survey Plat
6. Well/Facility Name: Philadelphia Creek	7. Well/Facility Number N/A	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): See Page 2		Surface Eqpm Diagram
9. County: Rio Blanco	10. Field Name: Philadelphia Creek	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number:		Other

General Notice

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

<input type="checkbox"/> Notice of Intent Approximate Start Date:	<input type="checkbox"/> Report of Work Done 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 checked="" type="checkbox"/> Other: Pit Closures
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input 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: Habib Guerrero Date: 1/4/2013 Email: hguerrero@rlbayless.com
Print Name: Habib Guerrero Title: Operation Engineer

COGCC Approved: Title: Date:
CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 6720 API Number: See Below
2. Name of Operator: Robert L. Bayless LLC OGCC Facility ID # N/A
3. Well/Facility Name: Philadelphia Creek Well/Facility Number: N/A
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): See Below

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**

Robert L. Bayless (Bayless) is submitting this Sundry Notice Form 4 as notice of cloures for the pits listed below located in the Philadelphia Creek unit, in Rio Blanco County. By definition as outlined in COGCC Rule 903, these piggings/blow down pits do not require the necessary Form 15 permitting.

Samples have been collected from each of the pits listed from a depth of 0-12" below surface to be analyzed for COGCC Table 910-1. Analysis indicates that soils with the pits do not exceed standards setforth in COGCC Table 910-1. It was noted that these pigging/blowdown pits may have been construced in the early 1980's and were never put into use.

Bayless is requesting approval to backfill the pigging/blowdown pits listed below;

Philadelphia Creek # 30	API # 05-103-08376	Location: NESW, Sec 2, T2S, R101W , 6th PM
Philadelphia Creek # 36	API # 05-103-08422	Location: NWSE, Sec 36, T1S, R101W, 6th PM
Philadelphia Creek # 41	API # 05-103-08515	Location: NWSW, Sec 28, T1S, R101W, 6th PM
Philadephia Creek # 42	API # 05-103-08525	Location: NWNW, Sec 28, T1S, R101W, 6th PM
Philadephia Creek # 43	API # 05-103-08516	Location: SENE, Sec 28, T1S, R101W, 6th PM

Attached is the analyitcal results for each of the pits listed above.

Attachment 1: Philadelphia Creek #30 Analytical Results



06-Jul-2012

Kris Rowe
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Bayless Pit Closure Philadelphia Creek #30 6/26/12**

Work Order: **1206948**

Dear Kris,

ALS Environmental received 4 samples on 28-Jun-2012 09:00 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 29.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: 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 Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12
Work Order: 1206948

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>
1206948-01	Pit Bottom (BAY)	Soil		6/26/2012 13:50	6/28/2012 09:00	<input type="checkbox"/>
1206948-02	BKGD 1	Soil		6/26/2012 13:55	6/28/2012 09:00	<input type="checkbox"/>
1206948-03	BKGD 2	Soil		6/26/2012 14:00	6/28/2012 09:00	<input type="checkbox"/>
1206948-04	BKGD 3	Soil		6/26/2012 14:05	6/28/2012 09:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12
Work Order: 1206948

Case Narrative

Batch 42051 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 42062 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 42154 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12
WorkOrder: 1206948

QUALIFIERS, ACRONYMS, UNITS

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

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

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

Work Order: 1206948

Sample ID: Pit Bottom (BAY)

Lab ID: 1206948-01

Collection Date: 6/26/2012 01:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	58		4.1	mg/Kg-dry	1	Analyst: CW 6/29/2012 07:31 PM
Surr: 4-Terphenyl-d14	47.7		39-115	%REC	1	6/29/2012 07:31 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		2.5	mg/Kg-dry	50	Analyst: CW 7/2/2012 11:54 AM
Surr: Toluene-d8	106		50-150	%REC	50	7/2/2012 11:54 AM
MERCURY BY CVAA						
Mercury	0.028		0.018	mg/Kg-dry	1	Analyst: LR 6/29/2012 01:54 PM
METALS BY ICP-MS						
Arsenic	2.7		0.71	mg/Kg-dry	2	Analyst: ML 6/30/2012 05:17 AM
Barium	39		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Cadmium	0.31		0.28	mg/Kg-dry	2	6/30/2012 05:17 AM
Chromium	7.5		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Copper	12		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Lead	15		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Nickel	9.3		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Selenium	1.0		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Silver	ND		0.71	mg/Kg-dry	2	6/30/2012 05:17 AM
Zinc	48		1.4	mg/Kg-dry	2	6/30/2012 05:17 AM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 7/5/12		as noted		1	Analyst: A&LGL 7/5/2012
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		15	µg/Kg-dry	1	Analyst: RM 7/2/2012 08:01 PM
Anthracene	ND		15	µg/Kg-dry	1	7/2/2012 08:01 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	7/2/2012 08:01 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	7/2/2012 08:01 PM
Benzo(b)fluoranthene	ND		20	µg/Kg-dry	1	7/2/2012 08:01 PM
Benzo(g,h,i)perylene	ND		30	µg/Kg-dry	1	7/2/2012 08:01 PM
Benzo(k)fluoranthene	ND		30	µg/Kg-dry	1	7/2/2012 08:01 PM
Chrysene	ND		15	µg/Kg-dry	1	7/2/2012 08:01 PM
Dibenzo(a,h)anthracene	ND		18	µg/Kg-dry	1	7/2/2012 08:01 PM
Fluoranthene	ND		15	µg/Kg-dry	1	7/2/2012 08:01 PM
Fluorene	15		15	µg/Kg-dry	1	7/2/2012 08:01 PM
Indeno(1,2,3-cd)pyrene	ND		20	µg/Kg-dry	1	7/2/2012 08:01 PM
Naphthalene	ND		15	µg/Kg-dry	1	7/2/2012 08:01 PM
Pyrene	ND		15	µg/Kg-dry	1	7/2/2012 08:01 PM
Surr: 2-Fluorobiphenyl	73.0		12-100	%REC	1	7/2/2012 08:01 PM

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

Work Order: 1206948

Sample ID: Pit Bottom (BAY)

Lab ID: 1206948-01

Collection Date: 6/26/2012 01:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Terphenyl-d14	84.1		25-137	%REC	1	7/2/2012 08:01 PM
Surr: Nitrobenzene-d5	64.1		37-107	%REC	1	7/2/2012 08:01 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 6/29/2012	Analyst: BG
Benzene	ND		30	µg/Kg-dry	1	7/3/2012 06:24 PM
Ethylbenzene	ND		30	µg/Kg-dry	1	7/3/2012 06:24 PM
m,p-Xylene	ND		60	µg/Kg-dry	1	7/3/2012 06:24 PM
o-Xylene	ND		30	µg/Kg-dry	1	7/3/2012 06:24 PM
Toluene	ND		30	µg/Kg-dry	1	7/3/2012 06:24 PM
Xylenes, Total	ND		90	µg/Kg-dry	1	7/3/2012 06:24 PM
Surr: 1,2-Dichloroethane-d4	99.7		70-130	%REC	1	7/3/2012 06:24 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	7/3/2012 06:24 PM
Surr: Dibromofluoromethane	101		70-130	%REC	1	7/3/2012 06:24 PM
Surr: Toluene-d8	102		70-130	%REC	1	7/3/2012 06:24 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	7.5		0.50	mg/Kg-dry	1	7/5/2012 05:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/2/2012	Analyst: MB
Chromium, Hexavalent	ND		0.50	mg/Kg-dry	1	7/5/2012 03:00 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	0.47		0.050	% of sample	1	6/28/2012 03:09 PM
PH			SW9045D			Analyst: NZ
pH	8.91			s.u.	1	6/29/2012 12:00 PM

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

ALS Group USA, Corp**Date:** 06-Jul-12**Client:** HRL Compliance Solutions**Project:** Bayless Pit Closure Philadelphia Creek #30 6/26/12**Work Order:** 1206948**Sample ID:** BKGD 1**Lab ID:** 1206948-02**Collection Date:** 6/26/2012 01:55 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/29/2012	Analyst: ML
Arsenic	3.1		0.79	mg/Kg-dry	2	6/30/2012 05:36 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 7/5/12		as noted		1	7/5/2012
MOISTURE			A2540 G			Analyst: CG
Moisture	0.21		0.050	% of sample	1	6/28/2012 03:09 PM
PH			SW9045D			Analyst: NZ
pH	7.78			s.u.	1	6/29/2012 08:00 AM

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

Work Order: 1206948

Sample ID: BKGD 2

Lab ID: 1206948-03

Collection Date: 6/26/2012 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/29/2012	Analyst: ML
Arsenic	2.5		0.73	mg/Kg-dry	2	6/30/2012 05:42 AM
MOISTURE			A2540 G			Analyst: CG
Moisture	0.35		0.050	% of sample	1	6/28/2012 03:09 PM

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

Work Order: 1206948

Sample ID: BKGD 3

Lab ID: 1206948-04

Collection Date: 6/26/2012 02:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/29/2012	Analyst: ML
Arsenic	2.3		0.75	mg/Kg-dry	2	6/30/2012 05:48 AM
MOISTURE			A2540 G			Analyst: CG
Moisture	0.39		0.050	% of sample	1	6/28/2012 03:09 PM

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

Report Number: F12185-0122

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

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

www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

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

RE: PROJECT 1206948

DATE RECEIVED: 07/03/2012

DATE REPORTED: 07/05/2012

PAGE: 1

P.O. NUMBER: 20-1206948

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
55336	PITBOTTOMBAY	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	12.89	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	214	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	116	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	6878	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	93.7	-	USDA Handbook 60
55337	BKGD1	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	0.37	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	38	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	9	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	222	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	8.4	-	USDA Handbook 60

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1206948

Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

Batch ID: **42052A**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-42052-42052A				Units: mg/Kg		Analysis Date: 6/29/2012 04:13 PM		
Client ID:		Run ID: GC8_120629A				SeqNo: 2018148		Prep Date: 6/29/2012		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	0.7427	0	1.667	0	44.6	39-115	0			

LCS		Sample ID: DLCSS1-42052-42052A				Units: mg/Kg		Analysis Date: 6/29/2012 04:13 PM		
Client ID:		Run ID: GC8_120629A				SeqNo: 2018142		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.2	4.2	166.7	0	80.5	60-130	0			
Surr: 4-Terphenyl-d14	0.9407	0	1.667	0	56.4	39-115	0			

MS		Sample ID: 1206946-01B MS				Units: mg/Kg		Analysis Date: 6/29/2012 04:38 PM		
Client ID:		Run ID: GC8_120629A				SeqNo: 2018149		Prep Date: 6/29/2012		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	395.5	41	327.3	113	86.3	60-130	0			
Surr: 4-Terphenyl-d14	1.466	0	3.273	0	44.8	39-115	0			

MSD		Sample ID: 1206946-01B MSD				Units: mg/Kg		Analysis Date: 6/29/2012 04:38 PM		
Client ID:		Run ID: GC8_120629A				SeqNo: 2018143		Prep Date: 6/29/2012		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	495.1	42	332.4	113	115	60-130	395.5	22.4	30	
Surr: 4-Terphenyl-d14	1.802	0	3.324	0	54.2	39-115	1.466	20.5	30	

The following samples were analyzed in this batch: | 1206948-01B |

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **R106827** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-R106827-R106827				Units: µg/L		Analysis Date: 7/2/2012 09:02 AM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018643		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>100.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-R106827-R106827				Units: µg/L		Analysis Date: 7/2/2012 08:37 AM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018642		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)	25360	200	25000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	<i>101.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1206960-01A MS				Units: µg/Kg		Analysis Date: 7/2/2012 05:39 PM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018663		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1498000	2,500	1250000	0	120	70-130	0			
<i>Surr: Toluene-d8</i>	<i>4880</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>97.6</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1206960-01A MSD				Units: µg/Kg		Analysis Date: 7/2/2012 06:04 PM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018664		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1457000	2,500	1250000	0	117	70-130	1498000	2.78	30	
<i>Surr: Toluene-d8</i>	<i>4864</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>97.3</i>	<i>50-150</i>	<i>4880</i>	<i>0.318</i>	<i>30</i>	

The following samples were analyzed in this batch:

1206948-01A

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42057** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-42057-42057				Units: mg/Kg		Analysis Date: 6/29/2012 12:58 PM		
Client ID:		Run ID: HG1_120629A			SeqNo: 2016879		Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002417	0.020								J

LCS		Sample ID: LCS-42057-42057					Units: mg/Kg		Analysis Date: 6/29/2012 01:00 PM		
Client ID:		Run ID: HG1_120629A			SeqNo: 2016880		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.177	0.020	0.1665	0	106	80-120	0				

MS		Sample ID: 1206943-05AMS				Units: mg/Kg		Analysis Date: 6/29/2012 01:04 PM		
Client ID:		Run ID: HG1_120629A			SeqNo: 2016882		Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1436	0.016	0.1355	0.00768	100	75-125	0			

MSD		Sample ID: 1206943-05AMSD				Units: mg/Kg		Analysis Date: 6/29/2012 01:07 PM		
Client ID:		Run ID: HG1_120629A			SeqNo: 2016883		Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1377	0.016	0.1359	0.00768	95.7	75-125	0.1436	4.17	35	

The following samples were analyzed in this batch:

1206948-01B

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42062** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-42062-42062				Units: mg/Kg		Analysis Date: 6/30/2012 04:22 AM		
Client ID:		Run ID: ICPMS1_120629A				SeqNo: 2017769		Prep Date: 6/29/2012		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	0.01954	0.25								J
Cadmium	ND	0.10								
Chromium	0.02042	0.25								J
Copper	0.01811	0.25								J
Lead	ND	0.25								
Nickel	0.00845	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.0844	0.50								J

LCS		Sample ID: LCS-42062-42062				Units: mg/Kg		Analysis Date: 6/30/2012 04:28 AM		
Client ID:		Run ID: ICPMS1_120629A				SeqNo: 2017770		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.738	0.25	5	0	94.8	80-120	0			
Barium	4.989	0.25	5	0	99.8	80-120	0			
Cadmium	5.085	0.10	5	0	102	80-120	0			
Chromium	4.699	0.25	5	0	94	80-120	0			
Copper	4.655	0.25	5	0	93.1	80-120	0			
Lead	5.09	0.25	5	0	102	80-120	0			
Nickel	4.59	0.25	5	0	91.8	80-120	0			
Selenium	4.462	0.25	5	0	89.2	80-120	0			
Silver	4.789	0.25	5	0	95.8	80-120	0			
Zinc	4.691	0.50	5	0	93.8	80-120	0			

MS		Sample ID: 1206949-02AMS				Units: mg/Kg		Analysis Date: 6/30/2012 06:07 AM		
Client ID:		Run ID: ICPMS1_120629A				SeqNo: 2017786		Prep Date: 6/29/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.97	0.82	8.21	2.597	89.8	80-120	0			
Barium	58.98	0.82	8.21	52.33	81	80-120	0			O
Cadmium	8.007	0.33	8.21	0.2129	94.9	80-120	0			
Chromium	11.41	0.82	8.21	4.983	78.3	80-120	0			S
Copper	14.2	0.82	8.21	7.029	87.3	80-120	0			
Lead	17.67	0.82	8.21	8.652	110	80-120	0			
Nickel	14.31	0.82	8.21	6.89	90.3	80-120	0			
Selenium	7.524	0.82	8.21	0.821	81.6	80-120	0			
Silver	6.755	0.82	8.21	0.04296	81.8	80-120	0			
Zinc	44.42	1.6	8.21	33.23	136	80-120	0			SO

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42062** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1206949-02AMSD				Units: mg/Kg		Analysis Date: 6/30/2012 06:13 AM		
Client ID:		Run ID: ICPMS1_120629A				SeqNo: 2017787		Prep Date: 6/29/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.411	0.82	8.157	2.597	83.5	80-120	9.97	5.77	25	
Barium	55.92	0.82	8.157	52.33	44.1	80-120	58.98	5.33	25	SO
Cadmium	7.692	0.33	8.157	0.2129	91.7	80-120	8.007	4.01	25	
Chromium	10.81	0.82	8.157	4.983	71.4	80-120	11.41	5.43	25	S
Copper	13.28	0.82	8.157	7.029	76.6	80-120	14.2	6.71	25	S
Lead	15.85	0.82	8.157	8.652	88.2	80-120	17.67	10.9	25	
Nickel	13.23	0.82	8.157	6.89	77.7	80-120	14.31	7.85	25	S
Selenium	7.271	0.82	8.157	0.821	79.1	80-120	7.524	3.42	25	S
Silver	6.476	0.82	8.157	0.04296	78.9	80-120	6.755	4.22	25	S
Zinc	40.05	1.6	8.157	33.23	83.6	80-120	44.42	10.3	25	O

The following samples were analyzed in this batch:

1206948-01B	1206948-02A	1206948-03A
1206948-04A		

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42051** Instrument ID: **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-42051-42051				Units: µg/Kg		Analysis Date: 7/2/2012 01:55 PM		
Client ID:		Run ID: SVMS5_120702A				SeqNo: 2018517		Prep Date: 6/29/2012		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>	1607	0	1667	0	96.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1495	0	1667	0	89.7	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1453	0	1667	0	87.2	37-107	0			

LCS		Sample ID: SLCSS1-42051-42051				Units: µg/Kg		Analysis Date: 7/2/2012 01:19 PM		
Client ID:		Run ID: SVMS5_120702A				SeqNo: 2018516		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	488.7	30	666.7	0	73.3	45-110	0			
Anthracene	500.7	30	666.7	0	75.1	55-105	0			
Benzo(a)anthracene	530	30	666.7	0	79.5	50-110	0			
Benzo(a)pyrene	537	30	666.7	0	80.5	50-110	0			
Benzo(b)fluoranthene	556	30	666.7	0	83.4	45-115	0			
Benzo(g,h,i)perylene	581	30	666.7	0	87.1	40-125	0			
Benzo(k)fluoranthene	574.7	30	666.7	0	86.2	45-115	0			
Chrysene	532.7	30	666.7	0	79.9	55-110	0			
Dibenzo(a,h)anthracene	522.7	30	666.7	0	78.4	40-125	0			
Fluoranthene	521.7	30	666.7	0	78.2	55-115	0			
Fluorene	529	30	666.7	0	79.3	50-110	0			
Indeno(1,2,3-cd)pyrene	535.3	30	666.7	0	80.3	40-120	0			
Naphthalene	532	30	666.7	0	79.8	40-105	0			
Pyrene	510.7	30	666.7	0	76.6	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1400	0	1667	0	84	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1304	0	1667	0	78.2	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1359	0	1667	0	81.5	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42051** Instrument ID **SVMS5** Method: **SW8270**

MS				Units: µg/Kg				Analysis Date: 7/2/2012 03:43 PM		
Sample ID: 1206946-01B MS		Run ID: SVMS5_120702A		SeqNo: 2020561		Prep Date: 6/29/2012		DF: 20		
Client ID:										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	916.4	1,200	1309	0	70	45-110	0			J
Anthracene	968.7	1,200	1309	0	74	55-105	0			J
Benzo(a)anthracene	2435	1,200	1309	703.2	132	50-110	0			S
Benzo(a)pyrene	1335	1,200	1309	0	102	50-110	0			
Benzo(b)fluoranthene	3260	1,200	1309	1179	159	45-115	0			S
Benzo(g,h,i)perylene	1833	1,200	1309	481.8	103	40-125	0			
Benzo(k)fluoranthene	2631	1,200	1309	1224	107	45-115	0			
Chrysene	2121	1,200	1309	1211	69.5	55-110	0			
Dibenzo(a,h)anthracene	1178	1,200	1309	0	90	40-125	0			J
Fluoranthene	2304	1,200	1309	1224	82.5	55-115	0			
Fluorene	968.7	1,200	1309	0	74	50-110	0			J
Indeno(1,2,3-cd)pyrene	1649	1,200	1309	436.3	92.7	40-120	0			
Naphthalene	811.6	1,200	1309	0	62	40-105	0			J
Pyrene	2095	1,200	1309	696.7	107	45-125	0			
Surr: 2-Fluorobiphenyl	1990	0	3273	0	60.8	12-100	0			
Surr: 4-Terphenyl-d14	1911	0	3273	0	58.4	25-137	0			
Surr: Nitrobenzene-d5	1767	0	3273	0	54	37-107	0			

MSD				Units: µg/Kg				Analysis Date: 7/2/2012 04:19 PM		
Sample ID: 1206946-01B MSD		Run ID: SVMS5_120702A		SeqNo: 2020562		Prep Date: 6/29/2012		DF: 20		
Client ID:										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	944	1,200	1330	0	71	45-110	916.4	0	30	J
Anthracene	1064	1,200	1330	0	80	55-105	968.7	0	30	J
Benzo(a)anthracene	2420	1,200	1330	703.2	129	50-110	2435	0.617	30	S
Benzo(a)pyrene	1449	1,200	1330	0	109	50-110	1335	8.19	30	
Benzo(b)fluoranthene	3058	1,200	1330	1179	141	45-115	3260	6.38	30	S
Benzo(g,h,i)perylene	2008	1,200	1330	481.8	115	40-125	1833	9.11	30	
Benzo(k)fluoranthene	2766	1,200	1330	1224	116	45-115	2631	4.98	30	S
Chrysene	2792	1,200	1330	1211	119	55-110	2121	27.3	30	S
Dibenzo(a,h)anthracene	1316	1,200	1330	0	99	40-125	1178	11.1	30	
Fluoranthene	2872	1,200	1330	1224	124	55-115	2304	21.9	30	S
Fluorene	997.2	1,200	1330	0	75	50-110	968.7	0	30	J
Indeno(1,2,3-cd)pyrene	1808	1,200	1330	436.3	103	40-120	1649	9.19	30	
Naphthalene	784.5	1,200	1330	0	59	40-105	811.6	0	30	J
Pyrene	2380	1,200	1330	696.7	127	45-125	2095	12.8	30	S
Surr: 2-Fluorobiphenyl	1795	0	3324	0	54	12-100	1990	10.3	40	
Surr: 4-Terphenyl-d14	2247	0	3324	0	67.6	25-137	1911	16.2	40	
Surr: Nitrobenzene-d5	1728	0	3324	0	52	37-107	1767	2.22	40	

The following samples were analyzed in this batch: 1206948-01B

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 6/29/2012 08:27 PM		
Client ID:		Run ID: VMS7_120629B				SeqNo: 2017648		Prep Date: 6/29/2012		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	920.5	0	1000	0	92	70-130	0			
Surr: 4-Bromofluorobenzene	921	0	1000	0	92.1	70-130	0			
Surr: Dibromofluoromethane	931.5	0	1000	0	93.2	70-130	0			
Surr: Toluene-d8	960.5	0	1000	0	96	70-130	0			

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 7/2/2012 01:30 PM		
Client ID:		Run ID: VMS8_120702A				SeqNo: 2018992		Prep Date: 6/29/2012		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	1023	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	964.5	0	1000	0	96.4	70-130	0			
Surr: Dibromofluoromethane	941	0	1000	0	94.1	70-130	0			
Surr: Toluene-d8	997.5	0	1000	0	99.8	70-130	0			

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 7/3/2012 03:54 PM		
Client ID:		Run ID: VMS7_120703A				SeqNo: 2020238		Prep Date: 6/29/2012		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	1071	0	1000	0	107	70-130	0			
Surr: 4-Bromofluorobenzene	1047	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	1026	0	1000	0	103	70-130	0			
Surr: Toluene-d8	1060	0	1000	0	106	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 7/5/2012 04:24 PM		
Client ID:		Run ID: VMS5_120705A				SeqNo: 2021107		Prep Date: 6/29/2012		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	976.5	0	1000	0	97.6	70-130	0			
Surr: 4-Bromofluorobenzene	968.5	0	1000	0	96.8	70-130	0			
Surr: Dibromofluoromethane	1018	0	1000	0	102	70-130	0			
Surr: Toluene-d8	962.5	0	1000	0	96.2	70-130	0			

LCS		Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 6/29/2012 07:37 PM		
Client ID:		Run ID: VMS7_120629B				SeqNo: 2017647		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	948.5	30	1000	0	94.8	75-125	0			
Ethylbenzene	1018	30	1000	0	102	75-125	0			
m,p-Xylene	2035	60	2000	0	102	80-125	0			
o-Xylene	1019	30	1000	0	102	75-125	0			
Toluene	981	30	1000	0	98.1	70-125	0			
Xylenes, Total	3054	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	874.5	0	1000	0	87.4	70-130	0			
Surr: 4-Bromofluorobenzene	939	0	1000	0	93.9	70-130	0			
Surr: Dibromofluoromethane	918	0	1000	0	91.8	70-130	0			
Surr: Toluene-d8	954	0	1000	0	95.4	70-130	0			

LCS		Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 7/2/2012 12:18 PM		
Client ID:		Run ID: VMS8_120702A				SeqNo: 2018991		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1018	30	1000	0	102	75-125	0			
Ethylbenzene	1028	30	1000	0	103	75-125	0			
m,p-Xylene	2039	60	2000	0	102	80-125	0			
o-Xylene	1013	30	1000	0	101	75-125	0			
Toluene	1027	30	1000	0	103	70-125	0			
Xylenes, Total	3052	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	1019	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	990.5	0	1000	0	99	70-130	0			
Surr: Dibromofluoromethane	1018	0	1000	0	102	70-130	0			
Surr: Toluene-d8	1019	0	1000	0	102	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 7/3/2012 02:38 PM				
Client ID:		Run ID: VMS7_120703A		SeqNo: 2020237		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1074	30	1000	0	107	75-125	0			
Ethylbenzene	1134	30	1000	0	113	75-125	0			
m,p-Xylene	2255	60	2000	0	113	80-125	0			
o-Xylene	1112	30	1000	0	111	75-125	0			
Toluene	1106	30	1000	0	111	70-125	0			
Xylenes, Total	3368	90	3000	0	112	75-125	0			
Surr: 1,2-Dichloroethane-d4	1027	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1034	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	1059	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1074	0	1000	0	107	70-130	0			

LCS Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 7/5/2012 02:20 PM				
Client ID:		Run ID: VMS5_120705A		SeqNo: 2021106		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	950	30	1000	0	95	75-125	0			
Ethylbenzene	994	30	1000	0	99.4	75-125	0			
m,p-Xylene	1846	60	2000	0	92.3	80-125	0			
o-Xylene	912.5	30	1000	0	91.2	75-125	0			
Toluene	1001	30	1000	0	100	70-125	0			
Xylenes, Total	2758	90	3000	0	92	75-125	0			
Surr: 1,2-Dichloroethane-d4	960	0	1000	0	96	70-130	0			
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	941	0	1000	0	94.1	70-130	0			
Surr: Toluene-d8	980.5	0	1000	0	98	70-130	0			

MS Sample ID: 1206960-07A MS				Units: µg/Kg		Analysis Date: 6/30/2012 04:48 AM				
Client ID:		Run ID: VMS7_120629B		SeqNo: 2018318		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	912	30	1000	0	91.2	75-125	0			
Ethylbenzene	977.5	30	1000	0	97.8	75-125	0			
m,p-Xylene	1936	60	2000	0	96.8	80-125	0			
o-Xylene	973.5	30	1000	0	97.4	75-125	0			
Toluene	936	30	1000	0	93.6	70-125	0			
Xylenes, Total	2909	90	3000	0	97	75-125	0			
Surr: 1,2-Dichloroethane-d4	855	0	1000	0	85.5	70-130	0			
Surr: 4-Bromofluorobenzene	935	0	1000	0	93.5	70-130	0			
Surr: Dibromofluoromethane	874.5	0	1000	0	87.4	70-130	0			
Surr: Toluene-d8	949.5	0	1000	0	95	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

MSD				Sample ID: 1206960-07A MSD				Units: µg/Kg		Analysis Date: 6/30/2012 05:13 AM	
Client ID:			Run ID: VMS7_120629B			SeqNo: 2018319		Prep Date: 6/29/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	898	30	1000	0	89.8	75-125	912	1.55	30		
Ethylbenzene	958.5	30	1000	0	95.8	75-125	977.5	1.96	30		
m,p-Xylene	1910	60	2000	0	95.5	80-125	1936	1.35	30		
o-Xylene	957.5	30	1000	0	95.8	75-125	973.5	1.66	30		
Toluene	927	30	1000	0	92.7	70-125	936	0.966	30		
Xylenes, Total	2867	90	3000	0	95.6	75-125	2909	1.45	30		
Surr: 1,2-Dichloroethane-d4	815	0	1000	0	81.5	70-130	855	4.79	30		
Surr: 4-Bromofluorobenzene	935	0	1000	0	93.5	70-130	935	0	30		
Surr: Dibromofluoromethane	867.5	0	1000	0	86.8	70-130	874.5	0.804	30		
Surr: Toluene-d8	951.5	0	1000	0	95.2	70-130	949.5	0.21	30		

The following samples were analyzed in this batch: | 1206948-01A |

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **42154** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-42154-42154					Units: mg/Kg		Analysis Date: 7/5/2012 03:00 PM		
Client ID:	Run ID: WETCHEM_120705E				SeqNo: 2020974		Prep Date: 7/2/2012		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-42154-42154					Units: mg/Kg		Analysis Date: 7/5/2012 03:00 PM		
Client ID:	Run ID: WETCHEM_120705E				SeqNo: 2020973		Prep Date: 7/2/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.96 0.50 1.992 0 98.4 75-110 0

MS	Sample ID: 1206951-02B MS					Units: mg/Kg		Analysis Date: 7/5/2012 03:00 PM		
Client ID:	Run ID: WETCHEM_120705E				SeqNo: 2020961		Prep Date: 7/2/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.035 0.49 1.961 0 52.8 60-130 0 S

MSD	Sample ID: 1206951-02B MSD					Units: mg/Kg		Analysis Date: 7/5/2012 03:00 PM		
Client ID:	Run ID: WETCHEM_120705E				SeqNo: 2020962		Prep Date: 7/2/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.189 0.49 1.969 0 60.4 60-130 1.035 13.8 30

The following samples were analyzed in this batch:

1206948-01B

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **R106729** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-R106729-R106729					Units: s.u.			Analysis Date: 6/29/2012 08:00 AM			
Client ID:					Run ID: WETCHEM_120629B					SeqNo: 2016561			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					3.98		0	4.4	0	90.5	90-110	0				

DUP	Sample ID: 1206951-03A DUP					Units: s.u.		Analysis Date: 6/29/2012 08:00 AM		
Client ID:			Run ID: WETCHEM_120629B			SeqNo: 2016607		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.84	0	0	0	0	0-0	7.84	0	20	

DUP					Sample ID: 1206960-01B DUP					Units: s.u.			Analysis Date: 6/29/2012 08:00 AM		
Client ID:				Run ID: WETCHEM_120629B				SeqNo: 2016617			Prep Date:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		5.8	0	0	0	0	0-0	5.8	0	20					

The following samples were analyzed in this batch:

1206948-02A

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **R106734** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R106734					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016671		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-R106734					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016670		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: 1206947-05ADUP					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016626		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 0 0 0 0-0 0 0 20

DUP	Sample ID: 1206950-05ADUP					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016657		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 0.18 0.050 0 0 0 0-0 0.18 0 20

The following samples were analyzed in this batch:

1206948-01B	1206948-02A	1206948-03A
1206948-04A		

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

Client: HRL Compliance Solutions
Work Order: 1206948
Project: Bayless Pit Closure Philadelphia Creek #30 6/26/12

QC BATCH REPORT

Batch ID: **R106759** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-R106759-R106759					Units: s.u.			Analysis Date: 6/29/2012 12:00 PM		
Client ID:				Run ID: WETCHEM_120629G				SeqNo: 2017222			Prep Date:			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		3.99	0	4.4	0	90.7	90-110	0							

DUP					Sample ID: 12061001-01A DUP					Units: s.u.			Analysis Date: 6/29/2012 12:00 PM				
Client ID:					Run ID: WETCHEM_120629G					SeqNo: 2017462			Prep Date:			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH					10.81		0	0	0	0	0-0	10.81	0	20			

The following samples were analyzed in this batch:

1206948-01B

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



Environmental

Subcontractor:

A & L Great Lakes Agricultural La

3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Ft. Wayne, IN 46808

Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: **28-Jun-12**

COC ID: **3727**

Due D **05-Jul-12**

Salesperson **Bruce Schlatter**

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	1206948	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												
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J		
1206948-01C	Pit Bottom (BAY)	Soil	26/Jun/2012 13:50	(1) MISC	X											
1206948-02B	BKGD 1	Soil	26/Jun/2012 13:55	(1) MISC	X											

Comments:

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

Relinquished by:

[Signature]

Date/Time

6/29/12

Received by:

[Signature]

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 28-Jun-12 09:00

Work Order: 1206948

Received by: DS

Checklist completed by Diane Shaw 28-Jun-12
eSignature Date

Reviewed by: Ann Preston 28-Jun-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>4.0-5.4 c</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

4.0 - 5.4'c

CUSTODY SEAL

DATE

SIGNATURE

QEC

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

Express **US Airbill**

8001 2142 0359

0200 Form ID No.

FedEx Retrieval Copy

1 From Date 6/27/12

Sender's Name Mr. May Phone 770 343-7557

Company TEST

Address 744 Horizon Ct SL 140

City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To Recipient's Name Sample Receiving Phone 616 399-6070

Company AL S Group

Address 3332 128th Ave

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

City Denver State CO ZIP 80174

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

06 FedEx First Overnight

01X FedEx Priority Overnight

05 FedEx Standard Overnight

49 NEW FedEx 2Day A.M.

03 FedEx 2Day

20 FedEx Express Saver

5 Packaging Declared value limit \$200

06 FedEx Envelope 02 FedEx Pak 03 FedEx Box 04 FedEx Tube 01X Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

No Signature Required Direct Signature Indirect Signature

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

7 Payment Bill to:

Sender Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight



8001 2142 0359

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