

State of Colorado Oil and Gas Conservation Commission

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



RECEIVED	
OCT 03 2016	
COGCC	
OGCC Employee	
<input type="checkbox"/> Spill	<input type="checkbox"/> Complaint
<input type="checkbox"/> Inspection	<input type="checkbox"/> NOAV
Tracking No:	

SITE INVESTIGATION AND REMEDIATION WORKPLAN

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

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

OGCC Operator Number: 10150	Contact Name and Telephone: Jessica Donahue
Name of Operator: Black Hills Plateau Production, LLC	No: 303-566-3446
Address: 1515 Wynkoop St. Ste 500	Fax: 303-566-3344
City: Denver State: CO Zip: 80202	
API Number: N/A	County: Mesa
Facility Name: HSC 22-1DK Pit #2	Facility Number: COGCC #112389, Loc. ID 312577
Well Name: HSC 22-1DK	Well Number: HSC 22-1DK
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NENE, Sec 22, T9S, R97W, 6th PM	Latitude: 39 263681 Longitude: -108 198312

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): NA - Pit Closure

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

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Open Rangeland w/ Oil and Gas Operations

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Bunkwater very fine sandy loam

Potential receptors (water wells within 1/4 mi, surface waters, etc.): GW Well Permit #157807 ~910 ft. S/SE

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

Impacted Media (check):

- ☐ Soils
☐ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

None

How Determined:

Soil Sample

REMEDIALTION WORKPLAN

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

On April 5, 2011 one (1) grab sample was collected from within the footprint of the pit area at a depth of 3' to 3.6' below the grade of the pad. The soil sample was submitted to ALS Laboratory for constituents outlined in COGCC Table 910-1.

Analytical results indicated that the pit area satisfies COGCC Table 910-1 standards with exception of metals (arsenic); refer to COGCC Form 4 Sundry #2221286 for arsenic concentrations. Attached are the analytical results (ALS Work Order #1104136)

Describe how source is to be removed:

Not Applicable; Since analytical results are below COGCC Table 910-1 standards, the pit did not require any remediation and was backfilled with clean fill material from the surrounding location.

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

Not Applicable; remediation not necessary.



REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

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

Groundwater not impacted.

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

The pit was backfilled with clean fill material and the location has been reclaimed.

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

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

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

Not Applicable.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 4/5/2011 Date Site Investigation Completed: 4/5/2011 Date Remediation Plan Submitted: N/A
Remediation Start Date: N/A Anticipated Completion Date: N/A Actual Completion Date: N/A

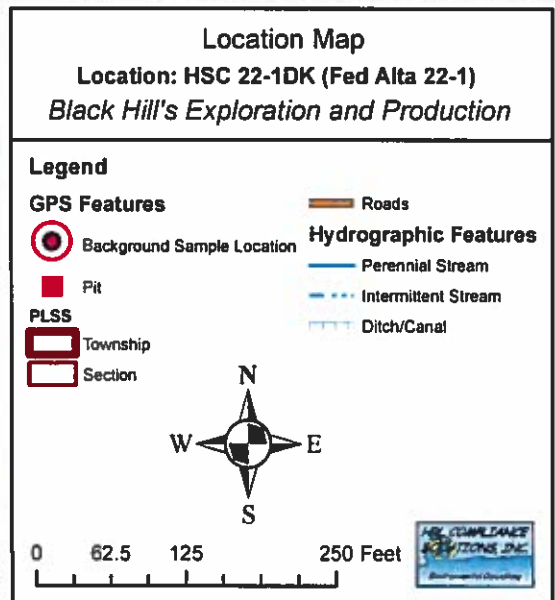
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Jessica Donahue Signed: *J Donahue*

Title: Regulatory Tech Date: 10/3/16

OGCC Approved: *Reg. Tech* Title: Env. Sup. Date: 10/3/16

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





15-Apr-2011

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Dear Kris,

ALS Environmental received 5 samples on 06-Apr-2011 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 34.

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

Sincerely,

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

Electronically approved by Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

ADDRESS 3352 128th Avenue Holland Michigan 49424-9253 | PHONE (616) 399-6070 | FAX (616) 399-6185

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

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
 Project: Fed Alta 22-1 Pit Closure 4/5/11
 Work Order: 1104136

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>
1104136-01	Pit #1 Confirmation	Soil		4/5/2011 11:00	4/6/2011 09:30	<input type="checkbox"/>
1104136-02	Pit #2 Confirmation	Soil		4/5/2011 11:30	4/6/2011 09:30	<input type="checkbox"/>
1104136-03	BKGD 1	Soil		4/5/2011 12:00	4/6/2011 09:30	<input type="checkbox"/>
1104136-04	BKGD 2	Soil		4/5/2011 12:15	4/6/2011 09:30	<input type="checkbox"/>
1104136-05	BKGD 3	Soil		4/5/2011 12:20	4/6/2011 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Fed Alta 22-1 Pit Closure 4/5/11
Work Order: 1104136

Case Narrative

Batch 32690 MS/MSD data for Metals is not related to this project's samples.

Batch 32696 LCS recoveries for Anthracene and Chrysene were below control limits causing the RPD to be above control limits. The LCSD recoveries met quality control criteria. Sample 1104136-01B was run at a dilution due to high DRO in the sample.

Client: HRL Compliance Solutions
Project: Fed Alta 22-1 Pit Closure 4/5/11
WorkOrder: 1104136

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

ALS Group USA, Corp

Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Sample ID: Pit #1 Confirmation

Lab ID: 1104136-01

Collection Date: 4/5/2011 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	370		SW8015M		Prep Date: 4/7/2011	Analyst: RM
			4.9	mg/Kg-dry	1	4/8/2011 06:54 PM
Surr: 4-Terphenyl-d14	50.8		39-115	%REC	1	4/8/2011 06:54 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RM
			6.0	mg/Kg-dry	100	4/9/2011 06:06 PM
Surr: Toluene-d8	92.0		50-150	%REC	100	4/9/2011 06:06 PM
MERCURY BY CVAA						
Mercury	0.13		SW7471		Prep Date: 4/8/2011	Analyst: LR
			0.023	mg/Kg-dry	1	4/8/2011 04:15 PM
METALS BY ICP-MS						
Arsenic	1.8		SW6020A		Prep Date: 4/6/2011	Analyst: RH
			0.87	mg/Kg-dry	2	4/7/2011 09:06 PM
Barium	930			mg/L-dry	20	4/8/2011 11:30 AM
Cadmium	ND			mg/Kg-dry	2	4/7/2011 09:06 PM
Chromium	6.4			mg/Kg-dry	2	4/7/2011 09:06 PM
Copper	10			mg/Kg-dry	2	4/7/2011 09:06 PM
Lead	9.3			mg/Kg-dry	2	4/7/2011 09:06 PM
Nickel	6.6			mg/Kg-dry	2	4/7/2011 09:06 PM
Selenium	ND			mg/Kg-dry	2	4/7/2011 09:06 PM
Silver	ND			mg/Kg-dry	2	4/7/2011 09:06 PM
Zinc	47			mg/Kg-dry	2	4/7/2011 09:06 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 4/14/11		SUBCONTRACT	as noted	1	Analyst: A&LGL
						4/14/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 4/7/2011	Analyst: CW
			350	µg/Kg-dry	10	4/8/2011 05:19 PM
Anthracene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Benzo(a)anthracene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Benzo(a)pyrene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Chrysene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Fluoranthene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Fluorene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Naphthalene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Pyrene	ND			µg/Kg-dry	10	4/8/2011 05:19 PM
Surr: 2,4,6-Tribromophenol	81.2		34-140	%REC	10	4/8/2011 05:19 PM

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

ALS Group USA, Corp
Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Sample ID: Pit #1 Confirmation

Lab ID: 1104136-01

Collection Date: 4/5/2011 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	57.0		12-100	%REC	10	4/8/2011 05:19 PM
Surr: 2-Fluorophenol	54.4		33-117	%REC	10	4/8/2011 05:19 PM
Surr: 4-Terphenyl-d14	64.6		25-137	%REC	10	4/8/2011 05:19 PM
Surr: Nitrobenzene-d5	57.8		37-107	%REC	10	4/8/2011 05:19 PM
Surr: Phenol-d6	58.0		40-106	%REC	10	4/8/2011 05:19 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		21	µg/Kg-dry	100	4/9/2011 05:40 PM
Ethylbenzene	ND		14	µg/Kg-dry	100	4/9/2011 05:40 PM
m,p-Xylene	ND		19	µg/Kg-dry	100	4/9/2011 05:40 PM
o-Xylene	ND		15	µg/Kg-dry	100	4/9/2011 05:40 PM
Toluene	ND		14	µg/Kg-dry	100	4/9/2011 05:40 PM
Xylenes, Total	ND		33	µg/Kg-dry	100	4/9/2011 05:40 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	6.4			mg/Kg-dry	1	4/12/2011 04:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 4/11/2011	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	4/12/2011 03:30 PM
MOISTURE			A2540 G			Analyst: KV
Moisture	17		0.010	% of sample	1	4/6/2011 01:29 PM
PH			SW9045D			Analyst: KV
pH	9.98			s.u.	1	4/6/2011 07:45 AM

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

ALS Group USA, Corp

Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Sample ID: Pit #2 Confirmation

Collection Date: 4/5/2011 11:30 AM

Work Order: 1104136

Lab ID: 1104136-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	ND		SW8015M 4.8	mg/Kg-dry	1	Prep Date: 4/7/2011 Analyst: RM 4/8/2011 06:54 PM
Surr: 4-Terphenyl-d14	112		39-115	%REC	1	4/8/2011 06:54 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015 5.9	mg/Kg-dry	100	Analyst: RM 4/9/2011 06:31 PM
Surr: Toluene-d8	91.8		50-150	%REC	100	4/9/2011 06:31 PM
MERCURY BY CVAA						
Mercury	ND		SW7471 0.022	mg/Kg-dry	1	Prep Date: 4/8/2011 Analyst: LR 4/8/2011 04:17 PM
METALS BY ICP-MS						
Arsenic	3.1		SW6020A 0.87	mg/Kg-dry	2	Prep Date: 4/6/2011 Analyst: RH 4/7/2011 09:11 PM
Barium	290		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Cadmium	ND		0.35	mg/Kg-dry	2	4/7/2011 09:11 PM
Chromium	8.2		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Copper	11		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Lead	12		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Nickel	8.5		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Selenium	ND		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Silver	ND		0.87	mg/Kg-dry	2	4/7/2011 09:11 PM
Zinc	35		1.7	mg/Kg-dry	2	4/7/2011 09:11 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 4/14/11		SUBCONTRACT	as noted	1	Analyst: A&LGL 4/14/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270 34	µg/Kg-dry	1	Prep Date: 4/7/2011 Analyst: CW 4/8/2011 04:02 PM
Anthracene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Benzo(a)anthracene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Benzo(a)pyrene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Benzo(b)fluoranthene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Benzo(g,h,i)perylene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Benzo(k)fluoranthene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Chrysene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Dibenzo(a,h)anthracene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Fluoranthene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Fluorene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Indeno(1,2,3-cd)pyrene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Naphthalene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Pyrene	ND		34	µg/Kg-dry	1	4/8/2011 04:02 PM
Surr: 2,4,6-Tribromophenol	57.8		34-140	%REC	1	4/8/2011 04:02 PM

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

ALS Group USA, Corp
Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Sample ID: Pit #2 Confirmation

Lab ID: 1104136-02

Collection Date: 4/5/2011 11:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	52.0		12-100	%REC	1	4/8/2011 04:02 PM
Surr: 2-Fluorophenol	58.2		33-117	%REC	1	4/8/2011 04:02 PM
Surr: 4-Terphenyl-d14	79.0		25-137	%REC	1	4/8/2011 04:02 PM
Surr: Nitrobenzene-d5	52.8		37-107	%REC	1	4/8/2011 04:02 PM
Surr: Phenol-d6	56.0		40-106	%REC	1	4/8/2011 04:02 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		20	µg/Kg-dry	100	4/9/2011 06:06 PM
Ethylbenzene	ND		14	µg/Kg-dry	100	4/9/2011 06:06 PM
m,p-Xylene	ND		18	µg/Kg-dry	100	4/9/2011 06:06 PM
o-Xylene	ND		14	µg/Kg-dry	100	4/9/2011 06:06 PM
Toluene	ND		14	µg/Kg-dry	100	4/9/2011 06:06 PM
Xylenes, Total	ND		33	µg/Kg-dry	100	4/9/2011 06:06 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	8.2			mg/Kg-dry	1	4/12/2011 04:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 4/11/2011	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	4/12/2011 03:30 PM
MOISTURE			A2540 G			Analyst: KV
Moisture	16		0.010	% of sample	1	4/6/2011 01:29 PM
PH			SW9045D			Analyst: KV
pH	8.85			s.u.	1	4/6/2011 07:45 AM

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

ALS Group USA, Corp

Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Sample ID: BKGD 1

Lab ID: 1104136-03

Collection Date: 4/5/2011 12:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 4/7/2011	Analyst: CES
Arsenic	1.7		0.98	mg/Kg-dry	2	4/8/2011 04:55 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 4/14/11		as noted		1	4/14/2011
MOISTURE			A2540 G			Analyst: KV
Moisture	15		0.010	% of sample	1	4/6/2011 01:44 PM
PH			SW9045D			Analyst: KV
pH	9.52			s.u.	1	4/6/2011 07:45 AM

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

ALS Group USA, Corp

Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Sample ID: BKGD 2

Lab ID: 1104136-04

Collection Date: 4/5/2011 12:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 4/7/2011	Analyst: CES
Arsenic	2.3		0.92	mg/Kg-dry	2	4/8/2011 05:01 PM
MOISTURE			A2540 G			Analyst: KV
Moisture	12		0.010	% of sample	1	4/6/2011 01:44 PM

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

ALS Group USA, Corp

Date: 15-Apr-11

Client: HRL Compliance Solutions

Project: Fed Alta 22-1 Pit Closure 4/5/11

Work Order: 1104136

Sample ID: BKGD 3

Lab ID: 1104136-05

Collection Date: 4/5/2011 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 4/7/2011	Analyst: CES
Arsenic	1.3		0.92	mg/Kg-dry	2	4/8/2011 05:07 PM
MOISTURE			A2540 G			Analyst: KV
Moisture	16		0.010	% of sample	1	4/6/2011 01:44 PM

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

Report Number: F11098-0214
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: 1104136 PROJECT

DATE RECEIVED: 04/08/2011
DATE REPORTED: 04/14/2011
PAGE: 1
P.O. NUMBER: 20-122009952

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
78265	01C	Sat'd Paste Extraction with DIW Conductivity (ECe) Calcium (Sat'd Paste) Magnesium (Sat'd Paste) Sodium (Sat'd Paste) Sodium Adsorption Ratio	1 1.10 7 4 766 57.0	mmho/cm ppm ppm ppm -	USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60
78266	02C	Sat'd Paste Extraction with DIW Conductivity (ECe) Calcium (Sat'd Paste) Magnesium (Sat'd Paste) Sodium (Sat'd Paste) Sodium Adsorption Ratio	1 0.40 30 6 226 9.6	mmho/cm ppm ppm ppm -	USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60
78270	03B	Sat'd Paste Extraction with DIW Conductivity (ECe) Calcium (Sat'd Paste) Magnesium (Sat'd Paste) Sodium (Sat'd Paste) Sodium Adsorption Ratio	1 0.33 7 2 281 24.0	mmho/cm ppm ppm ppm -	USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60 USDA Handbook 60

ALS Group USA, Corp

Date: 15-Apr-11

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32697 Instrument ID GC8 Method: SW8015M

MBLK Sample ID: DBLKS1-32697-32697 Units: mg/Kg Analysis Date: 4/8/2011 03:13 PM
Client ID: Run ID: GC8_110408A SeqNo: 1594890 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	2.148	0	2	0	107	39-115	0			

LCS Sample ID: DLCSS1-32697-32697 Units: mg/Kg Analysis Date: 4/8/2011 01:58 PM
Client ID: Run ID: GC8_110408A SeqNo: 1594888 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	154.4	5.0	200	0	77.2	60-130	0			
Surr: 4-Terphenyl-d14	1.634	0	2	0	81.7	39-115	0			

LCSD Sample ID: DLCSDS1-32697-32697 Units: mg/Kg Analysis Date: 4/8/2011 01:58 PM
Client ID: Run ID: GC8_110408A SeqNo: 1594902 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	164.5	5.0	200	0	82.3	60-130	154.4	6.34	30	
Surr: 4-Terphenyl-d14	1.755	0	2	0	87.7	39-115	1.634	7.1	30	

MS Sample ID: 1104122-05A MS Units: mg/Kg Analysis Date: 4/8/2011 02:24 PM
Client ID: Run ID: GC8_110408A SeqNo: 1594889 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	316.5	8.2	326.3	0	97	60-130	0			
Surr: 4-Terphenyl-d14	3.145	0	3.263	0	96.4	39-115	0			

MSD Sample ID: 1104122-05A MSD Units: mg/Kg Analysis Date: 4/8/2011 02:24 PM
Client ID: Run ID: GC8_110408A SeqNo: 1594903 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	252.7	8.0	318.4	0	79.4	60-130	316.5	22.4	30	
Surr: 4-Terphenyl-d14	2.92	0	3.184	0	91.7	39-115	3.145	7.42	30	

The following samples were analyzed in this batch: 1104136-01B 1104136-02B

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

Client: HRL Compliance Solutions
 Work Order: 1104136
 Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: R88864 Instrument ID GC9 Method: SW8015

MBLK	Sample ID: MBLK-R88864-R88864					Units: µg/L		Analysis Date: 4/9/2011 12:07 PM		
Client ID:	Run ID: GC9_110409A				SeqNo: 1596519		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	97.49	0	100	0	97.5	70-130	0			

LCS	Sample ID: LCS-R88864-R88864				Units: µg/L		Analysis Date: 4/9/2011 10:50 AM			
Client ID:	Run ID: GC9_110409A				SeqNo: 1596517		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)	26750	200	25000	0	107	70-130	0			
Surr: Toluene-d8	105.8	0	100	0	106	70-130	0			

LCSD	Sample ID: LCSD-R88864-R88864				Units: µg/L		Analysis Date: 4/9/2011 11:16 AM			
Client ID:	Run ID: GC9_110409A				SeqNo: 1596518		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)	26530	200	25000	0	106	70-130	26750	0.826	30	
Surr: Toluene-d8	99.27	0	100	0	99.3	70-130	105.8	6.37	30	

MS	Sample ID: 1104118-05C MS				Units: µg/L		Analysis Date: 4/9/2011 09:05 PM			
Client ID:	Run ID: GC9_110409A				SeqNo: 1596534		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)	24020	200	25000	0	96.1	70-130	0			
Surr: Toluene-d8	91.52	0	100	0	91.5	70-130	0			

MS	Sample ID: 1104153-05B MS				Units: µg/Kg		Analysis Date: 4/9/2011 09:31 PM			
Client ID:	Run ID: GC9_110409A				SeqNo: 1596563		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2512000	5,000	2500000	0	100	70-130	0			
Surr: Toluene-d8	9137	0	10000	0	91.4	50-150	0			

MSD	Sample ID: 1104118-05C MSD				Units: µg/L		Analysis Date: 4/9/2011 09:57 PM			
Client ID:	Run ID: GC9_110409A				SeqNo: 1596536		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)	22890	200	25000	0	91.5	70-130	24020	4.81	30	
Surr: Toluene-d8	95.54	0	100	0	95.5	70-130	91.52	4.3	30	

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: R88864 Instrument ID GC9 Method: SW8015

MSD	Sample ID: 1104153-05B MSD				Units: µg/Kg		Analysis Date: 4/9/2011 10:22 PM			
Client ID:	Run ID: GC9_110409A				SeqNo: 1596564		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2380000	5,000	2500000	0	95.2	70-130	2512000	5.43	30	
Surr: Toluene-d8	8826	0	10000	0	88.3	50-150	9137	3.46	30	

The following samples were analyzed in this batch:

1104136-01A 1104136-02A

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32719 Instrument ID HG1 Method: SW7471

MBLK	Sample ID: MBLK-32719-32719				Units: mg/Kg		Analysis Date: 4/8/2011 02:40 PM			
Client ID:	Run ID: HG1_110408A				SeqNo: 1594718		Prep Date: 4/8/2011		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-32719-32719					Units: mg/Kg		Analysis Date: 4/8/2011 02:42 PM		
Client ID:	Run ID: HG1_110408A				SeqNo: 1594719		Prep Date: 4/8/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1787	0.020	0.1665	0	107	80-120	0			

LCSD	Sample ID: LCSD-32719-32719					Units: mg/Kg		Analysis Date: 4/8/2011 02:44 PM		
Client ID:	Run ID: HG1_110408A				SeqNo: 1594720		Prep Date: 4/8/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1867	0.020	0.1665	0	112	80-120	0.1787	4.38	20	

MS	Sample ID: 1104139-04AMS					Units: mg/Kg		Analysis Date: 4/8/2011 04:32 PM		
Client ID:	Run ID: HG1_110408B				SeqNo: 1594817		Prep Date: 4/8/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1985	0.019	0.1583	0.01659	115	75-125	0			

MSD	Sample ID: 1104139-04AMSD					Units: mg/Kg		Analysis Date: 4/8/2011 04:34 PM		
Client ID:	Run ID: HG1_110408B				SeqNo: 1594818		Prep Date: 4/8/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2057	0.019	0.1609	0.01659	118	75-125	0.1985	3.57	35	

The following samples were analyzed in this batch: 1104136-01B 1104136-02B

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

Client: HRL Compliance Solutions
 Work Order: 1104136
 Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32690 Instrument ID ICPMS2 Method: SW6020A

MBLK	Sample ID: MBLK-32690-32690				Units: mg/Kg		Analysis Date: 4/7/2011 06:34 PM			
Client ID:	Run ID: ICPMS2_110407A				SeqNo: 1594137		Prep Date: 4/6/2011		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	0.00565	0.25								J
Copper	0.04572	0.25								J
Lead	0.001092	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.09835	0.50								J

LCS	Sample ID: LCS-32690-32690					Units: mg/Kg		Analysis Date: 4/7/2011 06:38 PM		
Client ID:	Run ID: ICPMS2_110407A				SeqNo: 1594138		Prep Date: 4/6/2011		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.603	0.50	5	0	92.1	80-120	0			
Barium	4.719	0.50	5	0	94.4	80-120	0			
Cadmium	4.68	0.20	5	0	93.6	80-120	0			
Chromium	4.843	0.50	5	0	96.9	80-120	0			
Copper	4.737	0.50	5	0	94.7	80-120	0			
Lead	4.727	0.50	5	0	94.5	80-120	0			
Nickel	4.678	0.50	5	0	93.6	80-120	0			
Selenium	4.555	0.50	5	0	91.1	80-120	0			
Silver	4.864	0.50	5	0	97.3	80-120	0			
Zinc	4.697	1.0	5	0	93.9	80-120	0			

LCSD	Sample ID: LCSD-32690-32690					Units: mg/Kg		Analysis Date: 4/7/2011 06:43 PM		
Client ID:	Run ID: ICPMS2_110407A				SeqNo: 1594139		Prep Date: 4/6/2011		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.679	0.50	5	0	93.6	80-120	4.603	1.64	20	
Barium	4.736	0.50	5	0	94.7	80-120	4.719	0.36	20	
Cadmium	4.715	0.20	5	0	94.3	80-120	4.68	0.745	20	
Chromium	4.888	0.50	5	0	97.8	80-120	4.843	0.925	20	
Copper	4.743	0.50	5	0	94.9	80-120	4.737	0.127	20	
Lead	4.735	0.50	5	0	94.7	80-120	4.727	0.169	20	
Nickel	4.672	0.50	5	0	93.4	80-120	4.678	0.128	20	
Selenium	4.57	0.50	5	0	91.4	80-120	4.555	0.329	20	
Silver	4.899	0.50	5	0	98	80-120	4.864	0.717	20	
Zinc	4.694	1.0	5	0	93.9	80-120	4.697	0.0639	20	

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

Client: HRL Compliance Solutions
 Work Order: 1104136
 Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32690 Instrument ID ICPMS2 Method: SW6020A

MS		Sample ID: 1104122-05AMS				Units: mg/Kg		Analysis Date: 4/7/2011 07:13 PM		
Client ID:		Run ID: ICPMS2_110407A				SeqNo: 1594145		Prep Date: 4/6/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.97	1.8	8.929	4.885	102	80-120	0			
Barium	91.82	1.8	8.929	90.08	19.5	80-120	0			SO
Cadmium	8.218	0.71	8.929	0.03399	91.7	80-120	0			
Chromium	15.71	1.8	8.929	8.537	80.3	80-120	0			
Copper	16.7	1.8	8.929	15.25	16.2	80-120	0			S
Lead	15.19	1.8	8.929	6.339	99.2	80-120	0			
Nickel	26.23	1.8	8.929	8.968	193	80-120	0			S
Selenium	8.279	1.8	8.929	0.2604	89.8	80-120	0			
Silver	7.761	1.8	8.929	-0.143	88.5	80-120	0			
Zinc	24.09	3.6	8.929	14.57	107	80-120	0			

MSD		Sample ID: 1104122-05AMSD				Units: mg/Kg		Analysis Date: 4/7/2011 07:18 PM		
Client ID:		Run ID: ICPMS2_110407A				SeqNo: 1594146		Prep Date: 4/6/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.98	1.7	8.569	4.885	106	80-120	13.97	0.0706	25	
Barium	112.9	1.7	8.569	90.08	266	80-120	91.82	20.6	25	SO
Cadmium	7.962	0.69	8.569	0.03399	92.5	80-120	8.218	3.16	25	
Chromium	14.74	1.7	8.569	8.537	72.4	80-120	15.71	6.36	25	S
Copper	20.05	1.7	8.569	15.25	56	80-120	16.7	18.2	25	S
Lead	14.23	1.7	8.569	6.339	92.1	80-120	15.19	6.54	25	
Nickel	16.56	1.7	8.569	8.968	88.5	80-120	26.23	45.2	25	R
Selenium	7.637	1.7	8.569	0.2604	86.1	80-120	8.279	8.07	25	
Silver	7.578	1.7	8.569	-0.143	90.1	80-120	7.761	2.38	25	
Zinc	24.58	3.4	8.569	14.57	117	80-120	24.09	2.01	25	

The following samples were analyzed in this batch: 1104136-01B 1104136-02B

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32707 Instrument ID ICPMS1 Method: SW6020A

MBLK Sample ID: MBLK-32707-32707 Units: mg/Kg Analysis Date: 4/8/2011 02:56 PM

Client ID: Run ID: ICPMS1_110408A SeqNo: 1595610 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS Sample ID: LCS-32707-32707 Units: mg/Kg Analysis Date: 4/8/2011 03:02 PM

Client ID: Run ID: ICPMS1_110408A SeqNo: 1595611 Prep Date: 4/7/2011 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.044	0.50	5	0	80.9	80-120	0			

LCSD Sample ID: LCSD-32707-32707 Units: mg/Kg Analysis Date: 4/8/2011 03:08 PM

Client ID: Run ID: ICPMS1_110408A SeqNo: 1595612 Prep Date: 4/7/2011 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.293	0.50	5	0	85.9	80-120	4.044	5.97	20	

MS Sample ID: 1104153-05AMS Units: mg/Kg Analysis Date: 4/8/2011 03:49 PM

Client ID: Run ID: ICPMS1_110408A SeqNo: 1595619 Prep Date: 4/7/2011 DF: 4

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.26	1.7	8.621	5.735	87.3	80-120	0			

MSD Sample ID: 1104153-05AMSD Units: mg/Kg Analysis Date: 4/8/2011 04:20 PM

Client ID: Run ID: ICPMS1_110408A SeqNo: 1595622 Prep Date: 4/7/2011 DF: 4

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.9	1.7	8.547	5.735	83.8	80-120	13.26	2.75	25	

The following samples were analyzed in this batch: 1104136-03A 1104136-04A 1104136-05A

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

Client: HRL Compliance Solutions
 Work Order: 1104136
 Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32696 Instrument ID SVMS4 Method: SW8270

MBLK Sample ID: SBLKS1-32696-32696 Units: µg/Kg Analysis Date: 4/8/2011 02:27 PM

Client ID: Run ID: SVMS4_110408A SeqNo: 1594628 Prep Date: 4/7/2011 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	1139	0	1667	0	68.4	34-140	0			
Surr: 2-Fluorobiphenyl	951	0	1667	0	57.1	12-100	0			
Surr: 2-Fluorophenol	1181	0	1667	0	70.8	33-117	0			
Surr: 4-Terphenyl-d14	1434	0	1667	0	86	25-137	0			
Surr: Nitrobenzene-d5	1185	0	1667	0	71.1	37-107	0			
Surr: Phenol-d6	1241	0	1667	0	74.5	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32696 Instrument ID SVMS4 Method: SW8270

LCS		Sample ID: SLCSS1-32696-32696			Units: µg/Kg		Analysis Date: 4/8/2011 11:48 AM			
Client ID:		Run ID: SVMS4_110408A			SeqNo: 1594623		Prep Date: 4/7/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	601	30	1333	0	45.1	45-110	0			
Anthracene	687	30	1333	0	51.5	55-105	0			S
Benzo(a)anthracene	758.7	30	1333	0	56.9	50-110	0			
Benzo(a)pyrene	796.7	30	1333	0	59.8	50-110	0			
Benzo(b)fluoranthene	758.7	30	1333	0	56.9	45-115	0			
Benzo(g,h,i)perylene	792	30	1333	0	59.4	40-125	0			
Benzo(k)fluoranthene	1011	30	1333	0	75.8	45-115	0			
Chrysene	675.7	30	1333	0	50.7	55-110	0			S
Dibenzo(a,h)anthracene	830.7	30	1333	0	62.3	40-125	0			
Fluoranthene	767	30	1333	0	57.5	55-115	0			
Fluorene	704.7	30	1333	0	52.9	50-110	0			
Indeno(1,2,3-cd)pyrene	820	30	1333	0	61.5	40-120	0			
Naphthalene	599.3	30	1333	0	45	40-105	0			
Pyrene	734	30	1333	0	55.1	45-125	0			
Surr: 2,4,6-Tribromophenol	850	0	1667	0	51	34-140	0			
Surr: 2-Fluorobiphenyl	734	0	1667	0	44	12-100	0			
Surr: 2-Fluorophenol	836.3	0	1667	0	50.2	33-117	0			
Surr: 4-Terphenyl-d14	1033	0	1667	0	62	25-137	0			
Surr: Nitrobenzene-d5	901	0	1667	0	54.1	37-107	0			
Surr: Phenol-d6	859	0	1667	0	51.5	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32696 Instrument ID: SVMS4 Method: SW8270

LCSD		Sample ID: SLCSDS1-32696-32696			Units: µg/Kg		Analysis Date: 4/8/2011 12:19 PM			
Client ID:		Run ID: SVMS4_110408A			SeqNo: 1594624		Prep Date: 4/7/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	961.7	30	1333	0	72.1	45-110	601	46.2	25	R
Anthracene	1032	30	1333	0	77.4	55-105	687	40.1	25	R
Benzo(a)anthracene	1132	30	1333	0	84.9	50-110	758.7	39.5	25	R
Benzo(a)pyrene	1204	30	1333	0	90.3	50-110	796.7	40.7	25	R
Benzo(b)fluoranthene	1284	30	1333	0	96.3	45-115	758.7	51.5	25	R
Benzo(g,h,i)perylene	1105	30	1333	0	82.9	40-125	792	33	25	R
Benzo(k)fluoranthene	1373	30	1333	0	103	45-115	1011	30.4	25	R
Chrysene	1040	30	1333	0	78	55-110	675.7	42.5	25	R
Dibenzo(a,h)anthracene	1249	30	1333	0	93.7	40-125	830.7	40.3	25	R
Fluoranthene	1127	30	1333	0	84.5	55-115	767	38	25	R
Fluorene	1158	30	1333	0	86.8	50-110	704.7	48.6	25	R
Indeno(1,2,3-cd)pyrene	1212	30	1333	0	90.9	40-120	820	38.6	25	R
Naphthalene	947.3	30	1333	0	71.1	40-105	599.3	45	25	R
Pyrene	1077	30	1333	0	80.8	45-125	734	37.9	25	R
Surr: 2,4,6-Tribromophenol	1302	0	1667	0	78.1	34-140	850	42	40	R
Surr: 2-Fluorobiphenyl	1188	0	1667	0	71.3	12-100	734	47.3	40	R
Surr: 2-Fluorophenol	1325	0	1667	0	79.5	33-117	836.3	45.2	40	R
Surr: 4-Terphenyl-d14	1533	0	1667	0	92	25-137	1033	39	40	
Surr: Nitrobenzene-d5	1466	0	1667	0	88	37-107	901	47.7	40	R
Surr: Phenol-d6	1330	0	1667	0	79.8	40-106	859	43	40	R

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32696 Instrument ID SVMS4 Method: SW8270

MS Sample ID: 1104122-05A MS Units: µg/Kg Analysis Date: 4/8/2011 12:51 PM

Client ID: Run ID: SVMS4_110408A SeqNo: 1594625 Prep Date: 4/7/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1756	58	2561	0	68.6	45-110	0			
Anthracene	1945	58	2561	0	76	55-105	0			
Benzo(a)anthracene	2120	58	2561	0	82.8	50-110	0			
Benzo(a)pyrene	2300	58	2561	0	89.8	50-110	0			
Benzo(b)fluoranthene	2489	58	2561	0	97.2	45-115	0			
Benzo(g,h,i)perylene	2248	58	2561	0	87.8	40-125	0			
Benzo(k)fluoranthene	2582	58	2561	0	101	45-115	0			
Chrysene	1946	58	2561	0	76	55-110	0			
Dibenzo(a,h)anthracene	2431	58	2561	0	94.9	40-125	0			
Fluoranthene	2123	58	2561	8.917	82.6	55-115	0			
Fluorene	2130	58	2561	0	83.2	50-110	0			
Indeno(1,2,3-cd)pyrene	2381	58	2561	0	93	40-120	0			
Naphthalene	1691	58	2561	0	66	40-105	0			
Pyrene	2037	58	2561	0	79.6	45-125	0			
Surr: 2,4,6-Tnbromophenol	2447	0	3201	0	76.4	34-140	0			
Surr: 2-Fluorobiphenyl	2090	0	3201	0	65.3	12-100	0			
Surr: 2-Fluorophenol	2298	0	3201	0	71.8	33-117	0			
Surr: 4-Terphenyl-d14	2888	0	3201	0	90.2	25-137	0			
Surr: Nitrobenzene-d5	2576	0	3201	0	80.5	37-107	0			
Surr: Phenol-d6	2364	0	3201	0	73.8	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32696 Instrument ID SVMS4 Method: SW8270

MSD		Sample ID: 1104122-05A MSD			Units: µg/Kg		Analysis Date: 4/8/2011 01:23 PM			
Client ID:		Run ID: SVMS4_110408A			SeqNo: 1594626		Prep Date: 4/7/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1684	56	2502	0	67.3	45-110	1756	4.18	30	
Anthracene	1917	56	2502	0	76.6	55-105	1945	1.46	30	
Benzo(a)anthracene	2071	56	2502	0	82.8	50-110	2120	2.31	30	
Benzo(a)pyrene	2248	56	2502	0	89.9	50-110	2300	2.31	30	
Benzo(b)fluoranthene	2342	56	2502	0	93.6	45-115	2489	6.09	30	
Benzo(g,h,i)perylene	2217	56	2502	0	88.6	40-125	2248	1.41	30	
Benzo(k)fluoranthene	2618	56	2502	0	105	45-115	2582	1.38	30	
Chrysene	1929	56	2502	0	77.1	55-110	1946	0.872	30	
Dibenzo(a,h)anthracene	2393	56	2502	0	95.7	40-125	2431	1.58	30	
Fluoranthene	2088	56	2502	8.917	83.1	55-115	2123	1.65	30	
Fluorene	2099	56	2502	0	83.9	50-110	2130	1.47	30	
Indeno(1,2,3-cd)pyrene	2337	56	2502	0	93.4	40-120	2381	1.86	30	
Naphthalene	1592	56	2502	0	63.7	40-105	1691	6	30	
Pyrene	1975	56	2502	0	79	45-125	2037	3.1	30	
Surr: 2,4,6-Tribromophenol	2447	0	3127	0	78.3	34-140	2447	0.0118	40	
Surr: 2-Fluorobiphenyl	1974	0	3127	0	63.1	12-100	2090	5.67	40	
Surr: 2-Fluorophenol	2260	0	3127	0	72.3	33-117	2298	1.65	40	
Surr: 4-Terphenyl-d14	2840	0	3127	0	90.8	25-137	2888	1.68	40	
Surr: Nitrobenzene-d5	2455	0	3127	0	78.5	37-107	2576	4.81	40	
Surr: Phenol-d6	2297	0	3127	0	73.4	40-106	2364	2.88	40	

The following samples were analyzed in this batch: 1104136-01B 1104136-02B

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

Client: HRL Compliance Solutions
 Work Order: 1104136
 Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: R88809 Instrument ID VMS6 Method: SW8260

MBLK Sample ID: VBLKW1-110409-R88809 Units: µg/L Analysis Date: 4/9/2011 09:47 AM

Client ID: Run ID: VMS6_110409A SeqNo: 1594935 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								

LCS Sample ID: VLCSW1-110409-R88809 Units: µg/L Analysis Date: 4/9/2011 08:30 AM

Client ID: Run ID: VMS6_110409A SeqNo: 1594933 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.06	1.0	20	0	110	80-120	0			
Ethylbenzene	22.52	1.0	20	0	113	75-125	0			
m,p-Xylene	44.73	2.0	40	0	112	75-130	0			
o-Xylene	22.76	1.0	20	0	114	80-120	0			
Toluene	21.64	1.0	20	0	108	75-120	0			
Xylenes, Total	67.49	2.0	60	0	112	75-130	0			

LCSD Sample ID: VLCSW1-110409-R88809 Units: µg/L Analysis Date: 4/9/2011 08:55 AM

Client ID: Run ID: VMS6_110409A SeqNo: 1594934 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.59	1.0	20	0	113	80-120	22.06	2.37	30	
Ethylbenzene	22.96	1.0	20	0	115	75-125	22.52	1.93	30	
m,p-Xylene	45.59	2.0	40	0	114	75-130	44.73	1.9	30	
o-Xylene	23.16	1.0	20	0	116	80-120	22.76	1.74	30	
Toluene	22.16	1.0	20	0	111	75-120	21.64	2.37	30	
Xylenes, Total	68.75	2.0	60	0	115	75-130	67.49	1.85	30	

MS Sample ID: 1104118-05C MS Units: µg/L Analysis Date: 4/9/2011 06:32 PM

Client ID: Run ID: VMS6_110409A SeqNo: 1595011 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.23	1.0	20	0	111	80-120	0			
Ethylbenzene	22.05	1.0	20	0	110	75-125	0			
m,p-Xylene	43.67	2.0	40	0	109	75-130	0			
o-Xylene	22.36	1.0	20	0	112	80-120	0			
Toluene	21.23	1.0	20	0	106	75-120	0			
Xylenes, Total	66.03	2.0	60	0	110	75-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: R88809 Instrument ID VMS6 Method: SW8260

MSD Sample ID: 1104118-05C MSD Units: µg/L Analysis Date: 4/9/2011 06:59 PM

Client ID: Run ID: VMS6_110409A SeqNo: 1595012 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.66	1.0	20	0	108	80-120	22.23	2.6	30	
Ethylbenzene	21.63	1.0	20	0	108	75-125	22.05	1.92	30	
m,p-Xylene	42.94	2.0	40	0	107	75-130	43.67	1.69	30	
o-Xylene	22.11	1.0	20	0	111	80-120	22.36	1.12	30	
Toluene	20.7	1.0	20	0	104	75-120	21.23	2.53	30	
Xylenes, Total	65.05	2.0	60	0	108	75-130	66.03	1.5	30	

The following samples were analyzed in this batch: 1104136-01A 1104136-02A

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: 32792 Instrument ID WETCHEM Method: SW7196A

MBLK Sample ID: MBLK-32792-32792 Units: mg/Kg Analysis Date: 4/12/2011 03:30 PM

Client ID: Run ID: WETCHEM_110412D SeqNo: 1597578 Prep Date: 4/11/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.49								

LCS Sample ID: LCS-32792-32792 Units: mg/Kg Analysis Date: 4/12/2011 03:30 PM

Client ID: Run ID: WETCHEM_110412D SeqNo: 1597576 Prep Date: 4/11/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.753	0.49	1.961	0	89.4	75-110	0			

LCSD Sample ID: LCSD-32792-32792 Units: mg/Kg Analysis Date: 4/12/2011 03:30 PM

Client ID: Run ID: WETCHEM_110412D SeqNo: 1597577 Prep Date: 4/11/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.776	0.48	1.931	0	92	75-110	1.753	1.31	20	

MS Sample ID: 1104139-05A MS Units: mg/Kg Analysis Date: 4/12/2011 03:30 PM

Client ID: Run ID: WETCHEM_110412D SeqNo: 1597570 Prep Date: 4/11/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.726	0.48	1.931	0	89.4	60-130	0			

MSD Sample ID: 1104139-05A MSD Units: mg/Kg Analysis Date: 4/12/2011 03:30 PM

Client ID: Run ID: WETCHEM_110412D SeqNo: 1597571 Prep Date: 4/11/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.753	0.49	1.961	0	89.4	60-130	1.726	1.56	30	

The following samples were analyzed in this batch:

1104136-01B 1104136-02B

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

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: **R88725** Instrument ID **WETCHEM** Method: **SW9045D**

DUP Sample ID: **1104136-01B DUP** Units: **s.u.** Analysis Date: **4/6/2011 07:45 AM**

Client ID: **Pit #1 Confirmation** Run ID: **WETCHEM_110406G** SeqNo: **1592773** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.98	0	0	0	0	0-0	9.98	0	20	

DUP Sample ID: **1104139-05A DUP** Units: **s.u.** Analysis Date: **4/6/2011 07:45 AM**

Client ID: Run ID: **WETCHEM_110406G** SeqNo: **1592781** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.06	0	0	0	0	0-0	9.06	0	20	

The following samples were analyzed in this batch:

1104136-01B	1104136-02B	1104136-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1104136
Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: **R88741** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-110406-R88741** Units: % of sample Analysis Date: **4/6/2011 01:29 PM**
 Client ID: Run ID: **MOIST_110406A** SeqNo: **1593368** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.010								

DUP Sample ID: **1104122-05A DUP1** Units: % of sample Analysis Date: **4/6/2011 01:29 PM**
 Client ID: Run ID: **MOIST_110406A** SeqNo: **1593349** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.1	0.010	0	0	0	0-0	3	31	20	R

DUP Sample ID: **1104122-05A DUP2** Units: % of sample Analysis Date: **4/6/2011 01:29 PM**
 Client ID: Run ID: **MOIST_110406A** SeqNo: **1593350** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.1	0.010	0	0	0	0-0	3	31	20	R

DUP Sample ID: **1104136-01B DUP** Units: % of sample Analysis Date: **4/6/2011 01:29 PM**
 Client ID: **Pit #1 Confirmation** Run ID: **MOIST_110406A** SeqNo: **1593365** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.8	0.010	0	0	0	0-0	16.7	0.597	20	

The following samples were analyzed in this batch:

1104136-01B	1104136-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1104136
 Project: Fed Alta 22-1 Pit Closure 4/5/11

QC BATCH REPORT

Batch ID: R88742 Instrument ID MOIST Method: A2540 G

MBLK Sample ID: WBLKS1-110406-R88742 Units: % of sample Analysis Date: 4/6/2011 01:44 PM
 Client ID: Run ID: MOIST_110406B SeqNo: 1593405 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.010								

DUP Sample ID: 1104136-04A DUP Units: % of sample Analysis Date: 4/6/2011 01:44 PM
 Client ID: BKGD 2 Run ID: MOIST_110406B SeqNo: 1593382 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.1	0.010	0	0	0	0-0	12	8.76	20	

DUP Sample ID: 1104139-01A DUP Units: % of sample Analysis Date: 4/6/2011 01:44 PM
 Client ID: Run ID: MOIST_110406B SeqNo: 1593388 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.3	0.010	0	0	0	0-0	5.8	8.26	20	

The following samples were analyzed in this batch: 1104136-03A 1104136-04A 1104136-05A

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



Chain-of-Custody

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

WORKORDER # 1104136

Form 202r8

PROJECT NAME	Fed Alta 22-1 Pit Closure	SAMPLER	KRIS ROWE	DATE	4/5/2011	STD	DISPOSAL	PAGE	1	of	1			
PROJECT No.		SITE ID		TURNAROUND										
COMPANY NAME	HRL COMPLIANCE SOLUTIONS Inc.	EDD FORMAT												
SEND REPORT TO	KRIS ROWE	PURCHASE ORDER												
ADDRESS	744 HORIZON CT SUITE 140	BILL TO COMPANY												
CITY / STATE / ZIP	GRAND JUNCTION CO 81506	INVOICE ATTN TO												
PHONE	970-243-3271	ADDRESS												
FAX	970-243-3280	CITY / STATE / ZIP												
E-MAIL	KRWE@HRLCOMP.COM	PHONE												
		FAX												
		E-MAIL												
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TEPH	TPH	BTEX	Semi Vois - PAH	910-1 Total Metals (see comments)	SAR / EC / PH	Arsenic
61	Pit #1 Confirmation	SO	4/5/2011	11:00	2			X	X	X	X	X	X	
62	Pit #2 Confirmation	SO	4/5/2011	11:30	2			X	X	X	X	X	X	
63	BKGD 1	SO	4/5/2011	12:00	1							X	X	
64	BKGD 2	SO	4/5/2011	12:15	1							X	X	
65	BKGD 3	SO	4/5/2011	12:20	1							X	X	

Time Zone (Circle):	EST	CST	MST	PST	Matrix:	O = oil	S = soil	NS = non-soil solid	W = water	L = liquid	E = extract	F = filler
For metals or anions, please detail analytes below.												
Comments:												
Report Barium as total Barium and do not run Boron												
COC has correct sample ID nomenclature												
Preservative Key:	1-HCl	2-HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Other	8-4 degrees C	9-5035				
RELINQUISHED BY	SIGNATURE				PRINTED NAME	DATE	TIME					
RECEIVED BY	Kris Rowe				Kris Rowe	4/5/2011	17:00					
RELINQUISHED BY	Diane F Shaw				Diane F Shaw	4/6/11	0930					
RECEIVED BY												
RELINQUISHED BY												
RECEIVED BY												



Subcontractor:
A & L Great Lakes Agricultural La
3505 Conestoga Dr
FL Wayne, IN 46808

TEL: (260) 483-4759
FAX:
Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Date: 07-Apr-11
COC ID: 2692
Due Date 12-Apr-11

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	Project Name	Project Number	Subcontracted Analyses (SUBCONTRACT)	A	B	C	D	E	F	G	H	I	J			
Work Order	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp													
Company Name	Ann Preston	Inv Attn	Accounts Payable													
Send Report To	3352 128th Avenue	Address	3352 128th Avenue													
Address																
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263													
Phone	(616) 399-6070	Phone	(616) 399-6070													
Fax	(616) 399-6185	Fax	(616) 399-6185													
eMail Address	ann.preston@alsglobal.com	eMail CC														
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J			
1104136-04G (Pit #1 Confirmation)	Soil	5/4/2011 11:00	(1) TLWMGNEAT	X												
1104136-02C (Pit #2 Confirmation)	Soil	5/4/2011 11:30	(1) TLWMGNEAT	X												
1104136-03B (BKGD-1)	Soil	5/4/2011 12:00	(1) TLWMGNEAT	X												

4/12/11 Extra sample sent for -03
See Buon.

Comments:

Please run SAR-EC

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level
Std

Relinquished by:

Date/Time

Received by:

Date/Time

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 06-Apr-11 09:30

Work Order: 1104136

Received by: DS

Checklist completed by Diane Shaw
eSignature

06-Apr-11
Date

Reviewed by: Ann Preston
eSignature

07-Apr-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):

5.6 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:

