



REM#: 7938
PIT FAC ID# 292430
DOC# 2452192
DATE: 08/02/2016

26-Jul-2011

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

Re: **Black Hills Fed 35-2 Stockpile 11-201**

Work Order: **1107473**

Dear Kris,

ALS Environmental received 4 samples on 20-Jul-2011 11:05 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 39.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Work Order: 1107473

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>
1107473-01	Bottom 8-9 Ft Inward	Soil		7/19/2011 14:46	7/20/2011 11:05	<input type="checkbox"/>
1107473-02	Middle 2-3 Ft Inward	Soil		7/19/2011 13:30	7/20/2011 11:05	<input type="checkbox"/>
1107473-03	Top 4-5 Ft Inward	Soil		7/19/2011 14:21	7/20/2011 11:05	<input type="checkbox"/>
1107473-04	South End 4-5 Ft Inward	Soil		7/19/2011 15:02	7/20/2011 11:05	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Work Order: 1107473

Case Narrative

Batch 34426 MS/MSD data for Metals is not related to this project's samples.

Batch 34439 PAH surrogate in the Method Blank are below control limits, but all samples in this quality control batch surrogate recoveries meet quality control criteria. The RPD between the LCS/LCSD recoveries for Naphthalene was above control limits. The individual LCS/LCSD recoveries met quality control criteria.

Batch R92473 LCS recovery for 4-Methyl-2-pentanone was above control limits. All samples were ND for this compound.

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

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
WorkOrder: 1107473

**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
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: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Bottom 8-9 Ft Inward
Collection Date: 7/19/2011 02:46 PM

Work Order: 1107473
Lab ID: 1107473-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 7/20/2011	Analyst: RM
DRO (C10-C28)	60		5.1	mg/Kg-dry	1	7/21/2011 06:35 PM
Surr: 4-Terphenyl-d14	104		39-115	%REC	1	7/21/2011 06:35 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RM
GRO (C6-C10)	ND		6.2	mg/Kg-dry	100	7/22/2011 11:01 AM
Surr: Toluene-d8	101		50-150	%REC	100	7/22/2011 11:01 AM
MERCURY BY CVAA						
			SW7471		Prep Date: 7/20/2011	Analyst: CES
Mercury	0.031		0.020	mg/Kg-dry	1	7/21/2011 02:50 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 7/20/2011	Analyst: CES
Arsenic	4.7		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Barium	4,300		98	mg/Kg-dry	200	7/22/2011 01:01 PM
Cadmium	ND		0.39	mg/Kg-dry	2	7/21/2011 07:49 PM
Chromium	12		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Copper	11		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Lead	11		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Nickel	12		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Selenium	1.2		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Silver	ND		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
Zinc	220		2.0	mg/Kg-dry	2	7/21/2011 07:49 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	7/25/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 7/20/2011	Analyst: JG
Acenaphthene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Anthracene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Chrysene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Fluorene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Naphthalene	50		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Pyrene	ND		37	µg/Kg-dry	1	7/22/2011 11:18 AM
Surr: 2,4,6-Tribromophenol	64.6		34-140	%REC	1	7/22/2011 11:18 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Bottom 8-9 Ft Inward
Collection Date: 7/19/2011 02:46 PM

Work Order: 1107473
Lab ID: 1107473-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	20.1		12-100	%REC	1	7/22/2011 11:18 AM
Surr: 2-Fluorophenol	53.6		33-117	%REC	1	7/22/2011 11:18 AM
Surr: 4-Terphenyl-d14	87.5		25-137	%REC	1	7/22/2011 11:18 AM
Surr: Nitrobenzene-d5	55.5		37-107	%REC	1	7/22/2011 11:18 AM
Surr: Phenol-d6	56.1		40-106	%REC	1	7/22/2011 11:18 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: BG

1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
1,1,2,2-Tetrachloroethane	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
1,1,2-Trichloroethane	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
1,1-Dichloroethene	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
1,2-Dichloroethane	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
1,2-Dichloropropane	ND		430	µg/Kg-dry	100	7/21/2011 03:44 AM
2-Butanone	ND		930	µg/Kg-dry	100	7/21/2011 03:44 AM
2-Hexanone	ND		620	µg/Kg-dry	100	7/21/2011 03:44 AM
4-Methyl-2-pentanone	ND		620	µg/Kg-dry	100	7/21/2011 03:44 AM
Acetone	ND		560	µg/Kg-dry	100	7/21/2011 03:44 AM
Benzene	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Bromodichloromethane	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM
Bromoform	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Bromomethane	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM
Chloroethane	ND		370	µg/Kg-dry	100	7/21/2011 03:44 AM
Chloroform	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Chloromethane	ND		370	µg/Kg-dry	100	7/21/2011 03:44 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
Ethylbenzene	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
m,p-Xylene	700		250	µg/Kg-dry	100	7/21/2011 03:44 AM
Methyl iodide	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
Methylene chloride	ND		250	µg/Kg-dry	100	7/21/2011 03:44 AM
o-Xylene	250		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Styrene	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM
Tetrachloroethene	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Toluene	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	7/21/2011 03:44 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Bottom 8-9 Ft Inward
Collection Date: 7/19/2011 02:46 PM

Work Order: 1107473
Lab ID: 1107473-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,4-Dichloro-2-butene	ND		430	µg/Kg-dry	100	7/21/2011 03:44 AM
Trichloroethene	ND		120	µg/Kg-dry	100	7/21/2011 03:44 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	7/21/2011 03:44 AM
Xylenes, Total	950		370	µg/Kg-dry	100	7/21/2011 03:44 AM
Surr: 1,2-Dichloroethane-d4	103		70-120	%REC	100	7/21/2011 03:44 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	100	7/21/2011 03:44 AM
Surr: Dibromofluoromethane	93.5		85-115	%REC	100	7/21/2011 03:44 AM
Surr: Toluene-d8	101		85-115	%REC	100	7/21/2011 03:44 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12			mg/kg-dry	1	7/25/2011 07:55 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/21/2011	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	7/22/2011 03:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	19		0.050	% of sample	1	7/20/2011 12:00 PM
PH			SW9045D			Analyst: JJG
pH	8.10			s.u.	1	7/20/2011 08:30 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Middle 2-3 Ft Inward
Collection Date: 7/19/2011 01:30 PM

Work Order: 1107473
Lab ID: 1107473-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	54		SW8015M		Prep Date: 7/20/2011	Analyst: RM
<i>Surr: 4-Terphenyl-d14</i>	<i>90.0</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	<i>7/21/2011 06:59 PM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RM
<i>Surr: Toluene-d8</i>	<i>105</i>		<i>50-150</i>	<i>%REC</i>	<i>100</i>	<i>7/22/2011 11:28 AM</i>
MERCURY BY CVAA						
Mercury	0.024	J	SW7471		Prep Date: 7/20/2011	Analyst: CES
			0.023	mg/Kg-dry	1	<i>7/21/2011 02:52 PM</i>
METALS BY ICP-MS						
Arsenic	4.7		SW6020A		Prep Date: 7/20/2011	Analyst: CES
Barium	4,200		0.95	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Cadmium	ND		95	mg/Kg-dry	200	<i>7/22/2011 01:07 PM</i>
Chromium	11		0.38	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Copper	11		0.95	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Lead	11		0.95	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Nickel	11		0.95	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Selenium	1.2		0.95	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Silver	ND		0.95	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
Zinc	210		1.9	mg/Kg-dry	2	<i>7/21/2011 07:55 PM</i>
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	<i>7/25/2011</i>
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 7/20/2011	Analyst: JG
Anthracene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Chrysene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Fluoranthene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Fluorene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Naphthalene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
Pyrene	ND		37	µg/Kg-dry	1	<i>7/22/2011 11:52 AM</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>60.3</i>		<i>34-140</i>	<i>%REC</i>	<i>1</i>	<i>7/22/2011 11:52 AM</i>

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Middle 2-3 Ft Inward
Collection Date: 7/19/2011 01:30 PM

Work Order: 1107473
Lab ID: 1107473-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	24.7		12-100	%REC	1	7/22/2011 11:52 AM
Surr: 2-Fluorophenol	52.2		33-117	%REC	1	7/22/2011 11:52 AM
Surr: 4-Terphenyl-d14	78.6		25-137	%REC	1	7/22/2011 11:52 AM
Surr: Nitrobenzene-d5	52.8		37-107	%REC	1	7/22/2011 11:52 AM
Surr: Phenol-d6	54.9		40-106	%REC	1	7/22/2011 11:52 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: BG

1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
1,1,2,2-Tetrachloroethane	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
1,1,2-Trichloroethane	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
1,1-Dichloroethene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
1,2-Dichloroethane	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
1,2-Dichloropropane	ND		440	µg/Kg-dry	100	7/21/2011 04:09 AM
2-Butanone	ND		940	µg/Kg-dry	100	7/21/2011 04:09 AM
2-Hexanone	ND		620	µg/Kg-dry	100	7/21/2011 04:09 AM
4-Methyl-2-pentanone	ND		620	µg/Kg-dry	100	7/21/2011 04:09 AM
Acetone	ND		560	µg/Kg-dry	100	7/21/2011 04:09 AM
Benzene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Bromodichloromethane	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM
Bromoform	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Bromomethane	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM
Chloroethane	ND		370	µg/Kg-dry	100	7/21/2011 04:09 AM
Chloroform	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Chloromethane	ND		370	µg/Kg-dry	100	7/21/2011 04:09 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
Ethylbenzene	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
m,p-Xylene	350		250	µg/Kg-dry	100	7/21/2011 04:09 AM
Methyl iodide	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
Methylene chloride	ND		250	µg/Kg-dry	100	7/21/2011 04:09 AM
o-Xylene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Styrene	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM
Tetrachloroethene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Toluene	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	7/21/2011 04:09 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Middle 2-3 Ft Inward
Collection Date: 7/19/2011 01:30 PM

Work Order: 1107473
Lab ID: 1107473-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,4-Dichloro-2-butene	ND		440	µg/Kg-dry	100	7/21/2011 04:09 AM
Trichloroethene	ND		120	µg/Kg-dry	100	7/21/2011 04:09 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	7/21/2011 04:09 AM
Xylenes, Total	ND		370	µg/Kg-dry	100	7/21/2011 04:09 AM
Surr: 1,2-Dichloroethane-d4	104		70-120	%REC	100	7/21/2011 04:09 AM
Surr: 4-Bromofluorobenzene	99.8		75-120	%REC	100	7/21/2011 04:09 AM
Surr: Dibromofluoromethane	93.4		85-115	%REC	100	7/21/2011 04:09 AM
Surr: Toluene-d8	100		85-115	%REC	100	7/21/2011 04:09 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	11			mg/kg-dry	1	7/25/2011 07:55 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/21/2011	Analyst: MB
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	7/22/2011 03:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	20		0.050	% of sample	1	7/20/2011 12:00 PM
PH			SW9045D			Analyst: JJG
pH	8.37			s.u.	1	7/20/2011 08:30 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Top 4-5 Ft Inward
Collection Date: 7/19/2011 02:21 PM

Work Order: 1107473
Lab ID: 1107473-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	49		SW8015M		Prep Date: 7/20/2011	Analyst: RM
			5.1	mg/Kg-dry	1	7/21/2011 06:59 PM
Surr: 4-Terphenyl-d14	99.0		39-115	%REC	1	7/21/2011 06:59 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 7/20/2011	Analyst: RM
			6.3	mg/Kg-dry	100	7/22/2011 11:54 AM
Surr: Toluene-d8	108		50-150	%REC	100	7/22/2011 11:54 AM
MERCURY BY CVAA						
Mercury	0.039		SW7471		Prep Date: 7/20/2011	Analyst: CES
			0.022	mg/Kg-dry	1	7/21/2011 02:54 PM
METALS BY ICP-MS						
Arsenic	4.7		SW6020A		Prep Date: 7/20/2011	Analyst: CES
			0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Barium	4,200		95	mg/Kg-dry	200	7/22/2011 01:13 PM
Cadmium	ND		0.38	mg/Kg-dry	2	7/21/2011 08:24 PM
Chromium	12		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Copper	12		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Lead	11		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Nickel	11		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Selenium	1.2		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Silver	ND		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
Zinc	220		1.9	mg/Kg-dry	2	7/21/2011 08:24 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See report		SUBCONTRACT		Analyst: A&LGL	
			as noted		1	7/25/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 7/20/2011	Analyst: JG
			37	µg/Kg-dry	1	7/22/2011 12:25 PM
Anthracene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Chrysene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Fluorene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Naphthalene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Pyrene	ND		37	µg/Kg-dry	1	7/22/2011 12:25 PM
Surr: 2,4,6-Tribromophenol	57.3		34-140	%REC	1	7/22/2011 12:25 PM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Top 4-5 Ft Inward
Collection Date: 7/19/2011 02:21 PM

Work Order: 1107473
Lab ID: 1107473-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	25.6		12-100	%REC	1	7/22/2011 12:25 PM
Surr: 2-Fluorophenol	49.5		33-117	%REC	1	7/22/2011 12:25 PM
Surr: 4-Terphenyl-d14	77.5		25-137	%REC	1	7/22/2011 12:25 PM
Surr: Nitrobenzene-d5	54.7		37-107	%REC	1	7/22/2011 12:25 PM
Surr: Phenol-d6	54.7		40-106	%REC	1	7/22/2011 12:25 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: BG

1,1,1-Trichloroethane	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
1,1,2,2-Tetrachloroethane	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
1,1,2-Trichloroethane	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
1,1-Dichloroethane	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
1,1-Dichloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
1,2-Dichloroethane	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
1,2-Dichloropropane	ND		440	µg/Kg-dry	100	7/21/2011 04:34 AM
2-Butanone	ND		940	µg/Kg-dry	100	7/21/2011 04:34 AM
2-Hexanone	ND		630	µg/Kg-dry	100	7/21/2011 04:34 AM
4-Methyl-2-pentanone	ND		630	µg/Kg-dry	100	7/21/2011 04:34 AM
Acetone	ND		560	µg/Kg-dry	100	7/21/2011 04:34 AM
Benzene	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Bromodichloromethane	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM
Bromoform	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Bromomethane	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM
Carbon tetrachloride	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM
Chloroethane	ND		380	µg/Kg-dry	100	7/21/2011 04:34 AM
Chloroform	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Chloromethane	ND		380	µg/Kg-dry	100	7/21/2011 04:34 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
cis-1,3-Dichloropropene	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
Ethylbenzene	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
m,p-Xylene	690		250	µg/Kg-dry	100	7/21/2011 04:34 AM
Methyl iodide	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
Methylene chloride	ND		250	µg/Kg-dry	100	7/21/2011 04:34 AM
o-Xylene	250		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Styrene	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM
Tetrachloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Toluene	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM
trans-1,2-Dichloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	7/21/2011 04:34 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: Top 4-5 Ft Inward
Collection Date: 7/19/2011 02:21 PM

Work Order: 1107473
Lab ID: 1107473-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,4-Dichloro-2-butene	ND		440	µg/Kg-dry	100	7/21/2011 04:34 AM
Trichloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:34 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	7/21/2011 04:34 AM
Xylenes, Total	940		380	µg/Kg-dry	100	7/21/2011 04:34 AM
Surr: 1,2-Dichloroethane-d4	103		70-120	%REC	100	7/21/2011 04:34 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	100	7/21/2011 04:34 AM
Surr: Dibromofluoromethane	93.0		85-115	%REC	100	7/21/2011 04:34 AM
Surr: Toluene-d8	99.7		85-115	%REC	100	7/21/2011 04:34 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12			mg/kg-dry	1	7/25/2011 07:55 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/21/2011	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	7/22/2011 03:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	20		0.050	% of sample	1	7/20/2011 12:00 PM
PH			SW9045D			Analyst: JJG
pH	8.42			s.u.	1	7/20/2011 08:30 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: South End 4-5 Ft Inward
Collection Date: 7/19/2011 03:02 PM

Work Order: 1107473
Lab ID: 1107473-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	51		SW8015M		Prep Date: 7/20/2011	Analyst: RM
<i>Surr: 4-Terphenyl-d14</i>	66.6		5.2	mg/Kg-dry	1	7/21/2011 07:22 PM
			39-115	%REC	1	7/21/2011 07:22 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 7/20/2011	Analyst: RM
<i>Surr: Toluene-d8</i>	105		6.4	mg/Kg-dry	100	7/22/2011 12:21 PM
			50-150	%REC	100	7/22/2011 12:21 PM
MERCURY BY CVAA						
Mercury	0.035		SW7471		Prep Date: 7/20/2011	Analyst: CES
			0.024	mg/Kg-dry	1	7/21/2011 03:01 PM
METALS BY ICP-MS						
Arsenic	4.5		SW6020A		Prep Date: 7/20/2011	Analyst: CES
Barium	3,600		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
Cadmium	ND		79	mg/Kg-dry	200	7/22/2011 01:19 PM
Chromium	13		0.32	mg/Kg-dry	2	7/21/2011 08:30 PM
Copper	12		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
Lead	11		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
Nickel	12		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
Selenium	1.3		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
Silver	ND		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
Zinc	190		1.6	mg/Kg-dry	2	7/21/2011 08:30 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See report		SUBCONTRACT		Analyst: A&LGL	
			as noted		1	7/25/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 7/20/2011	Analyst: JG
Anthracene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Benzo(a)anthracene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Benzo(a)pyrene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Benzo(b)fluoranthene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Benzo(g,h,i)perylene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Benzo(k)fluoranthene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Chrysene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Dibenzo(a,h)anthracene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Fluoranthene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Fluorene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Indeno(1,2,3-cd)pyrene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Naphthalene	45		38	µg/Kg-dry	1	7/22/2011 12:59 PM
Pyrene	ND		38	µg/Kg-dry	1	7/22/2011 12:59 PM
<i>Surr: 2,4,6-Tribromophenol</i>	55.4		34-140	%REC	1	7/22/2011 12:59 PM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: South End 4-5 Ft Inward
Collection Date: 7/19/2011 03:02 PM

Work Order: 1107473
Lab ID: 1107473-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	20.1		12-100	%REC	1	7/22/2011 12:59 PM
Surr: 2-Fluorophenol	47.1		33-117	%REC	1	7/22/2011 12:59 PM
Surr: 4-Terphenyl-d14	73.0		25-137	%REC	1	7/22/2011 12:59 PM
Surr: Nitrobenzene-d5	52.0		37-107	%REC	1	7/22/2011 12:59 PM
Surr: Phenol-d6	48.7		40-106	%REC	1	7/22/2011 12:59 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: BG

1,1,1-Trichloroethane	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
1,1,2,2-Tetrachloroethane	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
1,1,2-Trichloroethane	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
1,1-Dichloroethane	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
1,1-Dichloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
1,2-Dichloroethane	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
1,2-Dichloropropane	ND		450	µg/Kg-dry	100	7/21/2011 04:59 AM
2-Butanone	ND		950	µg/Kg-dry	100	7/21/2011 04:59 AM
2-Hexanone	ND		640	µg/Kg-dry	100	7/21/2011 04:59 AM
4-Methyl-2-pentanone	ND		640	µg/Kg-dry	100	7/21/2011 04:59 AM
Acetone	ND		570	µg/Kg-dry	100	7/21/2011 04:59 AM
Benzene	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Bromodichloromethane	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM
Bromoform	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Bromomethane	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM
Carbon tetrachloride	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM
Chloroethane	ND		380	µg/Kg-dry	100	7/21/2011 04:59 AM
Chloroform	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Chloromethane	ND		380	µg/Kg-dry	100	7/21/2011 04:59 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
cis-1,3-Dichloropropene	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
Ethylbenzene	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
m,p-Xylene	590		250	µg/Kg-dry	100	7/21/2011 04:59 AM
Methyl iodide	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
Methylene chloride	ND		250	µg/Kg-dry	100	7/21/2011 04:59 AM
o-Xylene	220		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Styrene	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM
Tetrachloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Toluene	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM
trans-1,2-Dichloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	7/21/2011 04:59 AM

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

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions
Project: Black Hills Fed 35-2 Stockpile 11-201
Sample ID: South End 4-5 Ft Inward
Collection Date: 7/19/2011 03:02 PM

Work Order: 1107473
Lab ID: 1107473-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,4-Dichloro-2-butene	ND		450	µg/Kg-dry	100	7/21/2011 04:59 AM
Trichloroethene	ND		130	µg/Kg-dry	100	7/21/2011 04:59 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	7/21/2011 04:59 AM
Xylenes, Total	810		380	µg/Kg-dry	100	7/21/2011 04:59 AM
Surr: 1,2-Dichloroethane-d4	103		70-120	%REC	100	7/21/2011 04:59 AM
Surr: 4-Bromofluorobenzene	102		75-120	%REC	100	7/21/2011 04:59 AM
Surr: Dibromofluoromethane	94.4		85-115	%REC	100	7/21/2011 04:59 AM
Surr: Toluene-d8	99.7		85-115	%REC	100	7/21/2011 04:59 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	13			mg/kg-dry	1	7/25/2011 07:55 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/21/2011	Analyst: MB
Chromium, Hexavalent	ND		0.62	mg/Kg-dry	1	7/22/2011 03:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	21		0.050	% of sample	1	7/20/2011 12:00 PM
PH			SW9045D			Analyst: JJG
pH	8.16			s.u.	1	7/20/2011 08:30 AM

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

Report Number: F11202-0327

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: 1107473

DATE RECEIVED: 07/21/2011

DATE REPORTED: 07/25/2011

PAGE: 1

P.O. NUMBER: 20-122010433

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
30063	01B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	9.13	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	242	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	286	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	6581	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	67.5	-	USDA Handbook 60
30064	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	6.06	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	157	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	156	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	4292	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	57.8	-	USDA Handbook 60
30065	03B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	7.13	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	196	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	197	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	5000	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	60.0	-	USDA Handbook 60
30066	04B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	8.28	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	299	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	280	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	5768	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	57.3	-	USDA Handbook 60

ALS Group USA, Corp

Date: 26-Jul-11

Client: HRL Compliance Solutions

Work Order: 1107473

Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34440** Instrument ID **GC8** Method: **SW8015M**

MBLK	Sample ID: DBLKS1-34440-34440				Units: mg/Kg		Analysis Date: 7/21/2011 05:00 PM			
Client ID:	Run ID: GC8_110721A				SeqNo: 1684142		Prep Date: 7/20/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.105</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>66.3</i>	<i>39-115</i>	<i>0</i>			

LCS	Sample ID: DLCSS1-34440-34440				Units: mg/Kg		Analysis Date: 7/21/2011 03:49 PM			
Client ID:	Run ID: GC8_110721A				SeqNo: 1684140		Prep Date: 7/20/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	148.9	4.2	166.7	0	89.3	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.352</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>81.1</i>	<i>39-115</i>	<i>0</i>			

LCSD	Sample ID: DLCSDS1-34440-34440				Units: mg/Kg		Analysis Date: 7/24/2011 08:08 PM			
Client ID:	Run ID: GC8_110724A				SeqNo: 1685502		Prep Date: 7/20/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	158.5	4.2	166.7	0	95.1	60-130	148.9	6.25	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.492</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>89.5</i>	<i>39-115</i>	<i>1.352</i>	<i>9.87</i>	<i>30</i>	

MS	Sample ID: 1107410-03A MS				Units: mg/Kg		Analysis Date: 7/21/2011 04:13 PM			
Client ID:	Run ID: GC8_110721A				SeqNo: 1684141		Prep Date: 7/20/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	289.6	8.0	318.6	6.459	88.9	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>2.267</i>	<i>0</i>	<i>3.186</i>	<i>0</i>	<i>71.2</i>	<i>39-115</i>	<i>0</i>			

MSD	Sample ID: 1107410-03A MSD				Units: mg/Kg		Analysis Date: 7/21/2011 04:36 PM			
Client ID:	Run ID: GC8_110721A				SeqNo: 1684108		Prep Date: 7/20/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	278.6	8.1	322.9	6.459	84.3	60-130	289.6	3.88	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.249</i>	<i>0</i>	<i>3.229</i>	<i>0</i>	<i>69.7</i>	<i>39-115</i>	<i>2.267</i>	<i>0.799</i>	<i>30</i>	

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92486** Instrument ID **GC9** Method: **SW8015**

MBLK	Sample ID: MBLK-R92486-R92486				Units: µg/L		Analysis Date: 7/22/2011 03:59 AM			
Client ID:	Run ID: GC9_110721B				SeqNo: 1682945		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>107.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>108</i>	<i>70-130</i>	<i>0</i>			

LCS	Sample ID: LCS-R92486-R92486				Units: µg/L		Analysis Date: 7/22/2011 02:40 AM			
Client ID:	Run ID: GC9_110721B				SeqNo: 1682943		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)	24420	200	25000	0	97.7	70-130	0			
<i>Surr: Toluene-d8</i>	<i>106.5</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>			

LCSD	Sample ID: LCSD-R92486-R92486				Units: µg/L		Analysis Date: 7/22/2011 03:06 AM			
Client ID:	Run ID: GC9_110721B				SeqNo: 1682944		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)	23590	200	25000	0	94.4	70-130	24420	3.46	30	
<i>Surr: Toluene-d8</i>	<i>102.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>106.5</i>	<i>3.66</i>	<i>30</i>	

MS	Sample ID: 1107410-03B MS				Units: µg/Kg		Analysis Date: 7/22/2011 01:13 PM			
Client ID:	Run ID: GC9_110721B				SeqNo: 1684418		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)	1186000	2,500	1250000	0	94.9	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5034</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>101</i>	<i>50-150</i>	<i>0</i>			

MSD	Sample ID: 1107410-03B MSD				Units: µg/Kg		Analysis Date: 7/22/2011 01:40 PM			
Client ID:	Run ID: GC9_110721B				SeqNo: 1684419		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)	1137000	2,500	1250000	0	90.9	70-130	1186000	4.26	30	
<i>Surr: Toluene-d8</i>	<i>4913</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>98.3</i>	<i>50-150</i>	<i>5034</i>	<i>2.44</i>	<i>30</i>	

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34442** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-34442-34442				Units: mg/Kg			Analysis Date: 7/21/2011 02:35 PM		
Client ID:	Run ID: HG1_110721A				SeqNo: 1682781			Prep Date: 7/20/2011		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-34442-34442				Units: mg/Kg			Analysis Date: 7/21/2011 02:37 PM		
Client ID:	Run ID: HG1_110721A				SeqNo: 1682802			Prep Date: 7/20/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1829	0.020	0.1665		0	110	80-120	0		

LCSD	Sample ID: LCSD-34442-34442				Units: mg/Kg			Analysis Date: 7/21/2011 02:39 PM		
Client ID:	Run ID: HG1_110721A				SeqNo: 1682803			Prep Date: 7/20/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1848	0.020	0.1665		0	111	80-120	0.1829	0.997	20

MS	Sample ID: 1107478-06BMS				Units: mg/Kg			Analysis Date: 7/21/2011 03:33 PM		
Client ID:	Run ID: HG1_110721A				SeqNo: 1682828			Prep Date: 7/20/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1679	0.019	0.1591	0.008251	100	75-125	0			

MSD	Sample ID: 1107478-06BMSD				Units: mg/Kg			Analysis Date: 7/21/2011 03:35 PM		
Client ID:	Run ID: HG1_110721A				SeqNo: 1682829			Prep Date: 7/20/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1751	0.019	0.1576	0.008251	106	75-125	0.1679	4.18	35	

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34426** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-34426-34426		Units: mg/Kg		Analysis Date: 7/20/2011 11:38 AM					
Client ID:	Run ID: ICPMS1_110720A		SeqNo: 1681565		Prep Date: 7/20/2011		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	0.006275	0.25								J
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	0.001412	0.25								J
Zinc	ND	0.50								

LCS	Sample ID: LCS-34426-34426		Units: mg/Kg		Analysis Date: 7/20/2011 11:44 AM					
Client ID:	Run ID: ICPMS1_110720A		SeqNo: 1681566		Prep Date: 7/20/2011		DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.475	0.50	5	0	89.5	80-120	0			
Barium	4.564	0.50	5	0	91.3	80-120	0			
Cadmium	4.656	0.20	5	0	93.1	80-120	0			
Chromium	4.745	0.50	5	0	94.9	80-120	0			
Copper	4.769	0.50	5	0	95.4	80-120	0			
Lead	4.719	0.50	5	0	94.4	80-120	0			
Nickel	4.746	0.50	5	0	94.9	80-120	0			
Selenium	4.448	0.50	5	0	89	80-120	0			
Silver	4.431	0.50	5	0	88.6	80-120	0			
Zinc	4.737	1.0	5	0	94.7	80-120	0			

LCSD	Sample ID: LCSD-34426-34426		Units: mg/Kg		Analysis Date: 7/20/2011 11:50 AM					
Client ID:	Run ID: ICPMS1_110720A		SeqNo: 1681567		Prep Date: 7/20/2011		DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.398	0.50	5	0	88	80-120	4.475	1.74	20	
Barium	4.566	0.50	5	0	91.3	80-120	4.564	0.0438	20	
Cadmium	4.618	0.20	5	0	92.4	80-120	4.656	0.819	20	
Chromium	4.689	0.50	5	0	93.8	80-120	4.745	1.19	20	
Copper	4.723	0.50	5	0	94.5	80-120	4.769	0.969	20	
Lead	4.609	0.50	5	0	92.2	80-120	4.719	2.36	20	
Nickel	4.659	0.50	5	0	93.2	80-120	4.746	1.85	20	
Selenium	4.385	0.50	5	0	87.7	80-120	4.448	1.43	20	
Silver	4.377	0.50	5	0	87.5	80-120	4.431	1.23	20	
Zinc	4.696	1.0	5	0	93.9	80-120	4.737	0.869	20	

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34426** Instrument ID **ICPMS1** Method: **SW6020A**

MS		Sample ID: 1107444-04BMS				Units: mg/Kg		Analysis Date: 7/20/2011 12:25 PM		
Client ID:		Run ID: ICPMS1_110720A				SeqNo: 1681573		Prep Date: 7/20/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.252	1.5	7.669	2.722	85.2	80-120	0			
Barium	43.34	1.5	7.669	31.16	159	80-120	0			SO
Cadmium	7.521	0.61	7.669	0.6152	90.1	80-120	0			
Chromium	12.03	1.5	7.669	8.871	41.2	80-120	0			S
Copper	7.791	1.5	7.669	1.865	77.3	80-120	0			S
Lead	9.963	1.5	7.669	4.893	66.1	80-120	0			S
Nickel	9.945	1.5	7.669	4.738	67.9	80-120	0			S
Selenium	7.061	1.5	7.669	0.3197	87.9	80-120	0			
Silver	6.052	1.5	7.669	0.03163	78.5	80-120	0			S
Zinc	29.29	3.1	7.669	28.73	7.22	80-120	0			S

MS		Sample ID: 1107456-03BMS				Units: mg/Kg		Analysis Date: 7/21/2011 06:14 PM		
Client ID:		Run ID: ICPMS1_110721A				SeqNo: 1683389		Prep Date: 7/20/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	21.6	1.5	7.728	12.69	115	80-120	0			
Barium	84.17	1.5	7.728	87.14	-38.4	80-120	0			SO
Cadmium	8	0.62	7.728	0.2736	100	80-120	0			
Chromium	13.38	1.5	7.728	5.588	101	80-120	0			
Copper	12.86	1.5	7.728	5.018	101	80-120	0			
Lead	12.29	1.5	7.728	5.209	91.6	80-120	0			
Nickel	13.04	1.5	7.728	5.015	104	80-120	0			
Selenium	9.029	1.5	7.728	1.098	103	80-120	0			
Silver	7.36	1.5	7.728	0.02293	94.9	80-120	0			
Zinc	32.77	3.1	7.728	26.55	80.4	80-120	0			

MSD		Sample ID: 1107444-04BMSD				Units: mg/Kg		Analysis Date: 7/20/2011 12:30 PM		
Client ID:		Run ID: ICPMS1_110720A				SeqNo: 1681574		Prep Date: 7/20/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.581	1.5	7.485	2.722	91.6	80-120	9.252	3.5	25	
Barium	46.23	1.5	7.485	31.16	201	80-120	43.34	6.44	25	SO
Cadmium	7.377	0.60	7.485	0.6152	90.3	80-120	7.521	1.94	25	
Chromium	11.59	1.5	7.485	8.871	36.3	80-120	12.03	3.76	25	S
Copper	7.437	1.5	7.485	1.865	74.4	80-120	7.791	4.65	25	S
Lead	9.638	1.5	7.485	4.893	63.4	80-120	9.963	3.32	25	S
Nickel	10.83	1.5	7.485	4.738	81.4	80-120	9.945	8.52	25	
Selenium	6.716	1.5	7.485	0.3197	85.4	80-120	7.061	5.02	25	
Silver	5.844	1.5	7.485	0.03163	77.7	80-120	6.052	3.49	25	S
Zinc	25.53	3.0	7.485	28.73	-42.8	80-120	29.29	13.7	25	S

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34426** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1107456-03BMSD				Units: mg/Kg		Analysis Date: 7/21/2011 06:20 PM		
Client ID:		Run ID: ICPMS1_110721A				SeqNo: 1683390		Prep Date: 7/20/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	19.95	1.5	7.321	12.69	99.2	80-120	21.6	7.98	25	
Barium	90.4	1.5	7.321	87.14	44.5	80-120	84.17	7.13	25	SO
Cadmium	7.283	0.59	7.321	0.2736	95.7	80-120	8	9.39	25	
Chromium	12.16	1.5	7.321	5.588	89.8	80-120	13.38	9.61	25	
Copper	11.67	1.5	7.321	5.018	90.9	80-120	12.86	9.65	25	
Lead	10.47	1.5	7.321	5.209	71.9	80-120	12.29	16	25	S
Nickel	12.09	1.5	7.321	5.015	96.7	80-120	13.04	7.52	25	
Selenium	8.266	1.5	7.321	1.098	97.9	80-120	9.029	8.82	25	
Silver	6.729	1.5	7.321	0.02293	91.6	80-120	7.36	8.96	25	
Zinc	28.41	2.9	7.321	26.55	25.4	80-120	32.77	14.2	25	S

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34439** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-34439-34439				Units: µg/Kg		Analysis Date: 7/21/2011 08:48 PM		
Client ID:		Run ID: SVMS5_110721A				SeqNo: 1683514		Prep Date: 7/20/2011		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								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>405.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>24.3</i>	<i>34-140</i>	<i>0</i>			<i>S</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>436.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>26.2</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>516.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>31</i>	<i>33-117</i>	<i>0</i>			<i>S</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>929.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>55.8</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>606</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>36.4</i>	<i>37-107</i>	<i>0</i>			<i>S</i>
<i>Surr: Phenol-d6</i>	<i>517</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>31</i>	<i>40-106</i>	<i>0</i>			<i>S</i>

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34439** Instrument ID **SVMS5** Method: **SW8270**

LCS		Sample ID: SLCSS1-34439-34439				Units: µg/Kg		Analysis Date: 7/21/2011 09:25 PM		
Client ID:		Run ID: SVMS5_110721A				SeqNo: 1683515		Prep Date: 7/20/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	943.7	30	1333	0	70.8	45-110	0			
Anthracene	1071	30	1333	0	80.3	55-105	0			
Benzo(a)anthracene	1041	30	1333	0	78.1	50-110	0			
Benzo(a)pyrene	1128	30	1333	0	84.6	50-110	0			
Benzo(b)fluoranthene	1272	30	1333	0	95.4	45-115	0			
Benzo(g,h,i)perylene	1130	30	1333	0	84.7	40-125	0			
Benzo(k)fluoranthene	1137	30	1333	0	85.3	45-115	0			
Chrysene	1078	30	1333	0	80.9	55-110	0			
Dibenzo(a,h)anthracene	1250	30	1333	0	93.8	40-125	0			
Fluoranthene	1083	30	1333	0	81.2	55-115	0			
Fluorene	1157	30	1333	0	86.8	50-110	0			
Indeno(1,2,3-cd)pyrene	1234	30	1333	0	92.5	40-120	0			
Naphthalene	962.7	30	1333	0	72.2	40-105	0			
Pyrene	1023	30	1333	0	76.7	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	1193	0	1667	0	71.6	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	961.7	0	1667	0	57.7	12-100	0			
<i>Surr: 2-Fluorophenol</i>	892.3	0	1667	0	53.5	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1226	0	1667	0	73.6	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1175	0	1667	0	70.5	37-107	0			
<i>Surr: Phenol-d6</i>	992.7	0	1667	0	59.6	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34439** Instrument ID **SVMS5** Method: **SW8270**

LCSD		Sample ID: SLCSDS1-34439-34439				Units: µg/Kg		Analysis Date: 7/21/2011 10:00 PM		
Client ID:		Run ID: SVMS5_110721A				SeqNo: 1683516		Prep Date: 7/20/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	841.3	30	1333	0	63.1	45-110	943.7	11.5	25	
Anthracene	1120	30	1333	0	84	55-105	1071	4.47	25	
Benzo(a)anthracene	1082	30	1333	0	81.2	50-110	1041	3.83	25	
Benzo(a)pyrene	1176	30	1333	0	88.2	50-110	1128	4.14	25	
Benzo(b)fluoranthene	1151	30	1333	0	86.4	45-115	1272	9.96	25	
Benzo(g,h,i)perylene	1107	30	1333	0	83.1	40-125	1130	2	25	
Benzo(k)fluoranthene	1380	30	1333	0	104	45-115	1137	19.4	25	
Chrysene	1116	30	1333	0	83.7	55-110	1078	3.43	25	
Dibenzo(a,h)anthracene	1271	30	1333	0	95.4	40-125	1250	1.67	25	
Fluoranthene	1121	30	1333	0	84.1	55-115	1083	3.51	25	
Fluorene	1121	30	1333	0	84.1	50-110	1157	3.19	25	
Indeno(1,2,3-cd)pyrene	1240	30	1333	0	93	40-120	1234	0.539	25	
Naphthalene	720.3	30	1333	0	54	40-105	962.7	28.8	25	R
Pyrene	1073	30	1333	0	80.5	45-125	1023	4.8	25	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1212</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>72.7</i>	<i>34-140</i>	<i>1193</i>	<i>1.58</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>735.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>44.1</i>	<i>12-100</i>	<i>961.7</i>	<i>26.7</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>738.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>44.3</i>	<i>33-117</i>	<i>892.3</i>	<i>18.9</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>1256</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>75.4</i>	<i>25-137</i>	<i>1226</i>	<i>2.39</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>885.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>53.1</i>	<i>37-107</i>	<i>1175</i>	<i>28.1</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>797.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>47.8</i>	<i>40-106</i>	<i>992.7</i>	<i>21.8</i>	<i>40</i>	

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34439** Instrument ID **SVMS5** Method: **SW8270**

MS				Sample ID: 1107410-03A MS			Units: µg/Kg		Analysis Date: 7/21/2011 10:36 PM	
Client ID:				Run ID: SVMS5_110721A			SeqNo: 1683517		Prep Date: 7/20/2011	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1558	57	2553	0	61.1	45-110	0			
Anthracene	1989	57	2553	0	77.9	55-105	0			
Benzo(a)anthracene	1967	57	2553	26.88	76	50-110	0			
Benzo(a)pyrene	2070	57	2553	22.56	80.2	50-110	0			
Benzo(b)fluoranthene	2301	57	2553	18.58	89.4	45-115	0			
Benzo(g,h,i)perylene	2106	57	2553	17.92	81.8	40-125	0			
Benzo(k)fluoranthene	2191	57	2553	15.6	85.2	45-115	0			
Chrysene	1999	57	2553	20.57	77.5	55-110	0			
Dibenzo(a,h)anthracene	2274	57	2553	0	89.1	40-125	0			
Fluoranthene	2089	57	2553	26.88	80.8	55-115	0			
Fluorene	2023	57	2553	0	79.3	50-110	0			
Indeno(1,2,3-cd)pyrene	2274	57	2553	13.6	88.5	40-120	0			
Naphthalene	1461	57	2553	0	57.2	40-105	0			
Pyrene	1859	57	2553	25.55	71.8	45-125	0			
Surr: 2,4,6-Tribromophenol	2258	0	3191	0	70.8	34-140	0			
Surr: 2-Fluorobiphenyl	1221	0	3191	0	38.3	12-100	0			
Surr: 2-Fluorophenol	1427	0	3191	0	44.7	33-117	0			
Surr: 4-Terphenyl-d14	1649	0	3191	0	51.7	25-137	0			
Surr: Nitrobenzene-d5	1900	0	3191	0	59.5	37-107	0			
Surr: Phenol-d6	1609	0	3191	0	50.4	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **34439** Instrument ID **SVMS5** Method: **SW8270**

MSD				Sample ID: 1107410-03A MSD			Units: µg/Kg		Analysis Date: 7/21/2011 11:12 PM	
Client ID:				Run ID: SVMS5_110721A			SeqNo: 1683518		Prep Date: 7/20/2011	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1716	56	2505	0	68.5	45-110	1558	9.59	30	
Anthracene	2073	56	2505	0	82.8	55-105	1989	4.16	30	
Benzo(a)anthracene	2012	56	2505	26.88	79.3	50-110	1967	2.28	30	
Benzo(a)pyrene	2096	56	2505	22.56	82.8	50-110	2070	1.25	30	
Benzo(b)fluoranthene	2262	56	2505	18.58	89.6	45-115	2301	1.68	30	
Benzo(g,h,i)perylene	1826	56	2505	17.92	72.2	40-125	2106	14.2	30	
Benzo(k)fluoranthene	2364	56	2505	15.6	93.8	45-115	2191	7.62	30	
Chrysene	2041	56	2505	20.57	80.7	55-110	1999	2.07	30	
Dibenzo(a,h)anthracene	2092	56	2505	0	83.5	40-125	2274	8.34	30	
Fluoranthene	2281	56	2505	26.88	90	55-115	2089	8.77	30	
Fluorene	2193	56	2505	0	87.5	50-110	2023	8.05	30	
Indeno(1,2,3-cd)pyrene	2069	56	2505	13.6	82	40-120	2274	9.45	30	
Naphthalene	1520	56	2505	0	60.7	40-105	1461	3.98	30	
Pyrene	1798	56	2505	25.55	70.8	45-125	1859	3.33	30	
<i>Surr: 2,4,6-Tribromophenol</i>	2288	0	3132	0	73.1	34-140	2258	1.32	40	
<i>Surr: 2-Fluorobiphenyl</i>	1406	0	3132	0	44.9	12-100	1221	14.1	40	
<i>Surr: 2-Fluorophenol</i>	1389	0	3132	0	44.3	33-117	1427	2.73	40	
<i>Surr: 4-Terphenyl-d14</i>	1717	0	3132	0	54.8	25-137	1649	4.06	40	
<i>Surr: Nitrobenzene-d5</i>	1910	0	3132	0	61	37-107	1900	0.512	40	
<i>Surr: Phenol-d6</i>	1615	0	3132	0	51.6	40-106	1609	0.358	40	

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92473** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW2-110720-R92473				Units: µg/L		Analysis Date: 7/20/2011 09:14 PM		
Client ID:		Run ID: VMS6_110720A				SeqNo: 1682498		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methyl iodide	ND	5.0								
Methylene chloride	0.33	5.0								J
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	2.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
trans-1,4-Dichloro-2-butene	ND	5.0								
Trichloroethene	ND	1.0								
Vinyl acetate	ND	1.0								
Xylenes, Total	ND	2.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.7</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>96.7</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>100.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>100.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92473** Instrument ID **VMS6** Method: **SW8260**

LCS		Sample ID: VLCSW1-110720-R92473				Units: µg/L		Analysis Date: 7/20/2011 07:51 PM		
Client ID:		Run ID: VMS6_110720A				SeqNo: 1682495		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.76	1.0	20	0	98.8	65-130	0			
1,1,2,2-Tetrachloroethane	21.53	1.0	20	0	108	65-130	0			
1,1,2-Trichloroethane	20.68	1.0	20	0	103	75-125	0			
1,1-Dichloroethane	19.86	1.0	20	0	99.3	70-135	0			
1,1-Dichloroethene	21.35	1.0	20	0	107	70-130	0			
1,2-Dichloroethane	20.3	1.0	20	0	102	70-130	0			
1,2-Dichloropropane	20.04	2.0	20	0	100	75-125	0			
2-Butanone	22.31	5.0	20	0	112	30-150	0			
2-Hexanone	21.01	5.0	20	0	105	55-130	0			
4-Methyl-2-pentanone	27.16	5.0	20	0	136	60-135	0			S
Acetone	23.58	20	20	0	118	40-140	0			
Benzene	20.96	1.0	20	0	105	80-120	0			
Bromodichloromethane	18.69	1.0	20	0	93.4	75-120	0			
Bromoform	20.34	1.0	20	0	102	70-130	0			
Bromomethane	21.43	1.0	20	0	107	30-145	0			
Carbon disulfide	19.76	2.5	20	0	98.8	35-165	0			
Carbon tetrachloride	19	1.0	20	0	95	65-140	0			
Chlorobenzene	20.03	1.0	20	0	100	80-120	0			
Chloroethane	19.4	1.0	20	0	97	60-135	0			
Chloroform	19.95	1.0	20	0	99.8	65-135	0			
Chloromethane	16.39	1.0	20	0	82	70-125	0			
cis-1,2-Dichloroethene	20.08	1.0	20	0	100	70-125	0			
cis-1,3-Dichloropropene	19.58	1.0	20	0	97.9	70-130	0			
Dibromochloromethane	20.7	1.0	20	0	104	60-135	0			
Ethylbenzene	19.19	1.0	20	0	96	75-125	0			
m,p-Xylene	38.12	2.0	40	0	95.3	75-130	0			
Methyl iodide	23.24	5.0	20	0	116	70-135	0			
Methylene chloride	21.18	5.0	20	0	106	55-140	0			
o-Xylene	19.57	1.0	20	0	97.8	80-120	0			
Styrene	19.47	1.0	20	0	97.4	65-135	0			
Tetrachloroethene	19.28	2.0	20	0	96.4	45-150	0			
Toluene	20.19	1.0	20	0	101	75-120	0			
trans-1,2-Dichloroethene	20.98	1.0	20	0	105	60-140	0			
trans-1,3-Dichloropropene	19.59	1.0	20	0	98	55-140	0			
trans-1,4-Dichloro-2-butene	17.44	5.0	20	0	87.2	70-135	0			
Trichloroethene	19.75	1.0	20	0	98.8	70-125	0			
Xylenes, Total	57.69	2.0	60	0	96.2	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>100.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>102.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>101.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92473** Instrument ID **VMS6** Method: **SW8260**

LCSD		Sample ID: VLCSDW1-110720-R92473				Units: µg/L		Analysis Date: 7/20/2011 08:19 PM		
Client ID:		Run ID: VMS6_110720A				SeqNo: 1682497		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.21	1.0	20	0	101	65-130	19.76	2.25	30	
1,1,2,2-Tetrachloroethane	20.71	1.0	20	0	104	65-130	21.53	3.88	30	
1,1,2-Trichloroethane	20.12	1.0	20	0	101	75-125	20.68	2.75	30	
1,1-Dichloroethane	20.03	1.0	20	0	100	70-135	19.86	0.852	30	
1,1-Dichloroethene	21.95	1.0	20	0	110	70-130	21.35	2.77	30	
1,2-Dichloroethane	20.2	1.0	20	0	101	70-130	20.3	0.494	30	
1,2-Dichloropropane	19.95	2.0	20	0	99.8	75-125	20.04	0.45	30	
2-Butanone	18.93	5.0	20	0	94.6	30-150	22.31	16.4	30	
2-Hexanone	19.74	5.0	20	0	98.7	55-130	21.01	6.23	30	
4-Methyl-2-pentanone	25.36	5.0	20	0	127	60-135	27.16	6.85	30	
Acetone	21.24	20	20	0	106	40-140	23.58	10.4	30	
Benzene	21.19	1.0	20	0	106	80-120	20.96	1.09	30	
Bromodichloromethane	18.74	1.0	20	0	93.7	75-120	18.69	0.267	30	
Bromoform	20.04	1.0	20	0	100	70-130	20.34	1.49	30	
Bromomethane	22.27	1.0	20	0	111	30-145	21.43	3.84	30	
Carbon disulfide	20.16	2.5	20	0	101	35-165	19.76	2	30	
Carbon tetrachloride	19.44	1.0	20	0	97.2	65-140	19	2.29	30	
Chlorobenzene	19.81	1.0	20	0	99	80-120	20.03	1.1	30	
Chloroethane	20.32	1.0	20	0	102	60-135	19.4	4.63	30	
Chloroform	20.15	1.0	20	0	101	65-135	19.95	0.998	30	
Chloromethane	16.7	1.0	20	0	83.5	70-125	16.39	1.87	30	
cis-1,2-Dichloroethene	20.7	1.0	20	0	104	70-125	20.08	3.04	30	
cis-1,3-Dichloropropene	19.38	1.0	20	0	96.9	70-130	19.58	1.03	30	
Dibromochloromethane	20.11	1.0	20	0	101	60-135	20.7	2.89	30	
Ethylbenzene	19.31	1.0	20	0	96.6	75-125	19.19	0.623	30	
m,p-Xylene	38.06	2.0	40	0	95.2	75-130	38.12	0.158	30	
Methyl iodide	23.93	5.0	20	0	120	70-135	23.24	2.93	30	
Methylene chloride	21.28	5.0	20	0	106	55-140	21.18	0.471	30	
o-Xylene	19.47	1.0	20	0	97.4	80-120	19.57	0.512	30	
Styrene	19.28	1.0	20	0	96.4	65-135	19.47	0.981	30	
Tetrachloroethene	19.62	2.0	20	0	98.1	45-150	19.28	1.75	30	
Toluene	20.19	1.0	20	0	101	75-120	20.19	0	30	
trans-1,2-Dichloroethene	21.54	1.0	20	0	108	60-140	20.98	2.63	30	
trans-1,3-Dichloropropene	19.15	1.0	20	0	95.8	55-140	19.59	2.27	30	
trans-1,4-Dichloro-2-butene	16.7	5.0	20	0	83.5	70-135	17.44	4.34	30	
Trichloroethene	19.7	1.0	20	0	98.5	70-125	19.75	0.253	30	
Xylenes, Total	57.53	2.0	60	0	95.9	75-130	57.69	0.278	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102.5</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-120</i>	<i>102.2</i>	<i>0.332</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.39</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.4</i>	<i>75-120</i>	<i>100.1</i>	<i>0.682</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>102.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>102.2</i>	<i>0.225</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>100.5</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>101.4</i>	<i>0.872</i>	<i>30</i>	

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92473** Instrument ID **VMS6** Method: **SW8260**

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

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

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

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.50								

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

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

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

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

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

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

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

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

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92428** Instrument ID **WETCHEM** Method: **SW9045D**

DUP	Sample ID: 1107468-03ADUP				Units: s.u.			Analysis Date: 7/20/2011 08:30 AM		
Client ID:	Run ID: WETCHEM_110720G				SeqNo: 1681657			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.38	0	0	0	0	0-0	8.38	0	20	

DUP	Sample ID: 1107475-01ADUP				Units: s.u.			Analysis Date: 7/20/2011 08:30 AM		
Client ID:	Run ID: WETCHEM_110720G				SeqNo: 1681665			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.56	0	0	0	0	0-0	8.56	0	20	

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107473
Project: Black Hills Fed 35-2 Stockpile 11-201

QC BATCH REPORT

Batch ID: **R92429** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R92429			Units: % of sample			Analysis Date: 7/20/2011 12:00 PM			
Client ID:	Run ID: MOIST_110720A			SeqNo: 1681687			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-R92429			Units: % of sample			Analysis Date: 7/20/2011 12:00 PM			
Client ID:	Run ID: MOIST_110720A			SeqNo: 1681686			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: 1107467-01ADUP			Units: % of sample			Analysis Date: 7/20/2011 12:00 PM			
Client ID:	Run ID: MOIST_110720A			SeqNo: 1681675			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	25.59	0.050	0	0	0	0-0	25.91	1.24	20	

DUP	Sample ID: 1107474-03ADUP			Units: % of sample			Analysis Date: 7/20/2011 12:00 PM			
Client ID:	Run ID: MOIST_110720A			SeqNo: 1681685			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.98	0.050	0	0	0	0-0	10.54	4.09	20	

The following samples were analyzed in this batch:

1107473-01A	1107473-02A	1107473-03A
1107473-04A		

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



ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER
#

1107473

PROJECT NAME		Black Hills Fed 35-2 Stockpile Sampling		SAMPLER		KRIS ROWE		DATE		7/19/2011		PAGE		1 of 1	
PROJECT No.		11-201		SITE ID				TURNAROUND		24 HR		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL COMPLIANCE SOLUTIONS Inc.		PURCHASE ORDER											
SEND REPORT TO		KRIS ROWE		BILL TO COMPANY											
ADDRESS		744 HORIZON CT SUITE 140		INVOICE ATTN TO											
CITY / STATE / ZIP		GRAND JUNCTION CO 81506		ADDRESS											
PHONE		970-243-3271		CITY / STATE / ZIP											
FAX		970-243-3280		PHONE											
E-MAIL		KROWE@HRLCOMP.COM		FAX											
				E-MAIL											
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TEPH - DRO	TYPH - GRO	TOTAL METALS (910-1 LIST)	SEMI VOLS -PAH (910-1)	VOC'S (FULL LIST)	SAR / EC / pH		
1	BOTTOM 8-9 FT INWARD	SO	7/19/2011	14:46	2			X	X	X	X	X	X		
2	MIDDLE 2-3 FT INWARD	SO	7/19/2011	13:30	3			X	X	X	X	X	X		
3	TOP 4-5 FT INWARD	SO	7/19/2011	14:21	4			X	X	X	X	X	X		
4	SOUTH END 4-5 FT INWARD	SO	7/19/2011	15:02	5			X	X	X	X	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 = filter

For metals or anions, please detail analytes below.

Comments:	5.8°C	QC PACKAGE (check below)	
		<input type="checkbox"/>	LEVEL II (Standard QC)
		<input type="checkbox"/>	LEVEL III (Std QC + forms)
		<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
		<input type="checkbox"/>	
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035			

SIGNATURE	PRINTED NAME	DATE	TIME
	Kris Rowe	7/19/2011	17:00
RELINQUISHED BY	RECEIVED BY	DATE	TIME
	Kerry W. Lawrence	7/20/11	1105
RELINQUISHED BY	RECEIVED BY	DATE	TIME
RELINQUISHED BY	RECEIVED BY	DATE	TIME


Subcontractor:

A & L Great Lakes Agricultural La

3505 Conestoga Dr

Ft. Wayne, IN 46808

TEL: (260) 483-4759

FAX: (260) 483-5274

Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: **20-Jul-11**

COC ID: **3005**

Due Date **22-Jul-11**

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	1107473	A	Subcontracted Analyses (SUBCONTRACT)										
Work Order		Project Number		B											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C											
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D											
Address	3352 128th Avenue	Address	3352 128th Avenue	E											
				F											
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G											
Phone	(616) 399-6070	Phone	(616) 399-6070	H											
Fax	(616) 399-6185	Fax	(616) 399-6185	I											
eMail Address	ann.preston@alsglobal.com	eMail CC		J											
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J		
1107473-01B (Bottom 8-9 Ft Inward)	Soil	19/Jul/2011 14:46	(1) MISC	X											
1107473-02B (Middle 2-3 Ft Inward)	Soil	19/Jul/2011 13:30	(1) MISC	X											
1107473-03B (Top 4-5 Ft Inward)	Soil	19/Jul/2011 14:21	(1) MISC	X											
1107473-04B (South End 4-5 Ft Inward)	Soil	19/Jul/2011 15:02	(1) MISC	X											

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

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Relinquished by:

Date/Time

Received by:

Date/Time

Std

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 20-Jul-11 11:05

Work Order: 1107473

Received by: KRW

Checklist completed by Keith Wurenga 20-Jul-11
eSignature Date

Reviewed by: Ann Preston 20-Jul-11
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.8 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:

FedEx Express **NEW Package**
US Airbill

FedEx
Tracking
Number

8757 1479 5759

0200 Form
ID No.

FedEx Retrieval Copy

1 From

Date

7/19/11

Sender's FedEx
Account Number

Sender's
Name

Kris Rowe

Phone 970 243-3271

Company

HR Compliance Solutions Inc.

Address

744 Horizon Ct

140

Dept./Floor/Suite/Room

City

Grand Junction

State

CO

ZIP

81506

2 Your Internal Billing Reference

3 To

Recipient's
Name

Sample Receiving

Phone

970 399-6070

Company

ALS Laboratory

Address

3352 18th AVE

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

Dept./Floor/Suite/Room

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

☐ **HOLD Saturday**

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

QEC



8757 1479 5759

4 Express Package Service

* To most locations.

NOTE: Service order has changed. Please select carefully.

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

Next Business Day

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

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

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

2 or 3 Business Days

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

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

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

5 Packaging

* Declared value limit: \$500.

☐ **FedEx Envelope***

☐ **FedEx Pak***

☐ **FedEx
Box**

☐ **FedEx
Tube**

☒ **Other**

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

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

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

☐ **Indirect Signature**
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ **No** ☐ **04 Yes**
As per instructions
on the label.

☐ **Yes**
Shipper's Declaration

☐ **06 Dry Ice**
Dry Ice, 9, UN 1845

Yg

Argo Aircraft Only

Obtain recip.
Acct. No.

Card 5 Cash/Check

612

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

Rev. Date 11/10 • Part #163136 • ©1994-2010 FedEx • PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339