



REM#: 7938  
PIT FAC ID#: 292430  
DOC#: 2452201  
DATE: 08/02/2016

SUNDRY NOTICE

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

1. OGCC Operator Number: 10150	4. Contact Name Jessica Donahue	Complete the Attachment Checklist  OP OGCC
2. Name of Operator: Black Hills Plateau Production	Phone: (720) 210-1333	
3. Address: 1515 Wynkoop St. Suite 500 City: Denver State: CO Zip: 80202	Fax: (303) 566-3344	
5. API Number 05- 077-09403	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: Federal	7. Well/Facility Number 35-2	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SWSW Sect. 35, T9S R97W, 6th PM		Surface Eqmpt Diagram
9. County: Mesa	10. Field Name: Shire Gulch	Technical Info Page
11. Federal, Indian or State Lease Number: COC22503		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)									
Change of Surface Footage from Exterior Section Lines:	<table><tr><td></td><td>FNL/FSL</td><td></td><td>FEL/FWL</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>		FNL/FSL		FEL/FWL				
	FNL/FSL		FEL/FWL						
Change of Surface Footage to Exterior Section Lines:	<table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>								
Change of Bottomhole Footage from Exterior Section Lines:	<table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>								
Change of Bottomhole Footage to Exterior Section Lines:	<table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>								
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer									
Latitude	Distance to nearest property line								
Longitude	Distance to nearest bldg, public rd, utility or RR								
Ground Elevation	Distance to nearest lease line								
	Is location in a High Density Area (rule 603b)? Yes/No								
	Distance to nearest well same formation								
	Surface owner consultation date:								
GPS DATA: Date of Measurement PDOP Reading Instrument Operator's Name									
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond								
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached								
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME NUMBER From: To: Effective Date:								
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT								
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)								
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries									
Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date									
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately <input type="checkbox"/> Final reclamation is completed and site is ready for inspection.									

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date:	<input type="checkbox"/> Report of Work Done Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Soil Disposal	for Spills and Releases

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

Signed: J. Donahue Date: 8/22/11 Email: jessica.donahue@blackhillscorp.com  
Print Name: Jessica Donahue Title: Regulatory Technician

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	10150	API Number:	05-077-09403
2. Name of Operator:	Black Hills Plateau Production	OGCC Facility ID #	
3. Well/Facility Name:	Federal	Well/Facility Number:	35-2
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SWSW Sect. 35, T9S R97W, 6th PM		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Black Hills Plateau Production respectfully requests permission to dispose of uncovered soils from the Federal 35-2 at the licensed disposal facility Black Mountain Disposal, as per conversations onsite between Black Hills Plateau Production's representative Mike Durham, Julia Christiansen of BLM, and Linda Spry-O'Rourke of COGCC on July 5, 2011.

Sampling methodology consisted of collecting grab samples from five (5) locations throughout the stockpile. Samples were collected by utilizing a hand auger to collect samples as depths from 6" (surface) to 5' (center) from all sides of the stockpile. A grab sample was collected from the lowest point of the pit at the time of construction. The sample was collected at a depth of approximately 12' to 12.6' below pad grade after black soil was excavated.

Three background samples were collected from nearby undisturbed locations at a depth of 0-6" to be analyzed for background arsenic as well as one of those samples collect was analyzed for inorganics within the soil.

Additional samples were collected from the stockpile during a site visit with COGCC representative Linda Spry O'Rourke. Four (4) samples were collected from the stockpile as soil was removed and black staining was encountered. Below is a breakdown of the sample nomenclature and depths at which each sample was collected.

Stockpile Middle – 2-3 ft inward

Stockpile Top – 4-5 ft inward

Stockpile Bottom – 8-9 ft inward

Stockpile South End – 4-5 ft inward

Please see the attached exhibits:

Lab report for the soils sampled from the Federal 35-2 location  
Chart of soil results compared to COGCC Table 910-1 requirements  
Site diagram denoting locations samples were extracted  
Black Hills historical site knowledge



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 black ink 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

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Environmental The ALS logo, a stylized blue triangle with a yellow flame-like shape inside.

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

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

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**Work Order Sample Summary**

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<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"/>

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

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**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**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	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

<b><u>Acronym</u></b>	<b><u>Description</u></b>
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

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% 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
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>RM</b>
<b>DRO (C10-C28)</b>	<b>60</b>		<b>5.1</b>	<b>mg/Kg-dry</b>	1	7/21/2011 06:35 PM
Surr: 4-Terphenyl-d14	104		39-115	%REC	1	7/21/2011 06:35 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015</b>			Analyst: <b>RM</b>
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
<b>MERCURY BY CVAA</b>						
			<b>SW7471</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>CES</b>
<b>Mercury</b>	<b>0.031</b>		<b>0.020</b>	<b>mg/Kg-dry</b>	1	7/21/2011 02:50 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020A</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>CES</b>
<b>Arsenic</b>	<b>4.7</b>		<b>0.98</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
<b>Barium</b>	<b>4,300</b>		<b>98</b>	<b>mg/Kg-dry</b>	200	7/22/2011 01:01 PM
Cadmium	ND		0.39	mg/Kg-dry	2	7/21/2011 07:49 PM
<b>Chromium</b>	<b>12</b>		<b>0.98</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
<b>Copper</b>	<b>11</b>		<b>0.98</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
<b>Lead</b>	<b>11</b>		<b>0.98</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
<b>Nickel</b>	<b>12</b>		<b>0.98</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
<b>Selenium</b>	<b>1.2</b>		<b>0.98</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
Silver	ND		0.98	mg/Kg-dry	2	7/21/2011 07:49 PM
<b>Zinc</b>	<b>220</b>		<b>2.0</b>	<b>mg/Kg-dry</b>	2	7/21/2011 07:49 PM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>See report</b>		<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			<b>as noted</b>		1	7/25/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>JG</b>
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
<b>Naphthalene</b>	<b>50</b>		<b>37</b>	<b>µg/Kg-dry</b>	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
<b>m,p-Xylene</b>	<b>700</b>		<b>250</b>	<b>µg/Kg-dry</b>	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
<b>o-Xylene</b>	<b>250</b>		<b>120</b>	<b>µg/Kg-dry</b>	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
<b>Xylenes, Total</b>	<b>950</b>		<b>370</b>	<b>µg/Kg-dry</b>	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
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	12			mg/kg-dry	1	7/25/2011 07:55 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>7/21/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	7/22/2011 03:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>JS</b>
Moisture	19		0.050	% of sample	1	7/20/2011 12:00 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JJG</b>
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
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>54</b>		<b>5.1</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>Analyst: RM</b> 7/21/2011 06:59 PM
Surr: 4-Terphenyl-d14	90.0		39-115	%REC	1	7/21/2011 06:59 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>6.2</b>	<b>mg/Kg-dry</b>	<b>100</b>	<b>Analyst: RM</b> 7/22/2011 11:28 AM
Surr: Toluene-d8	105		50-150	%REC	100	7/22/2011 11:28 AM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.024</b>	<b>J</b>	<b>0.023</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>Analyst: CES</b> 7/21/2011 02:52 PM
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>4.7</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>Analyst: CES</b> 7/21/2011 07:55 PM
<b>Barium</b>	<b>4,200</b>		<b>95</b>	<b>mg/Kg-dry</b>	<b>200</b>	7/22/2011 01:07 PM
Cadmium	ND		0.38	mg/Kg-dry	2	7/21/2011 07:55 PM
<b>Chromium</b>	<b>11</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	<b>2</b>	7/21/2011 07:55 PM
<b>Copper</b>	<b>11</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	<b>2</b>	7/21/2011 07:55 PM
<b>Lead</b>	<b>11</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	<b>2</b>	7/21/2011 07:55 PM
<b>Nickel</b>	<b>11</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	<b>2</b>	7/21/2011 07:55 PM
<b>Selenium</b>	<b>1.2</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	<b>2</b>	7/21/2011 07:55 PM
Silver	ND		0.95	mg/Kg-dry	2	7/21/2011 07:55 PM
<b>Zinc</b>	<b>210</b>		<b>1.9</b>	<b>mg/Kg-dry</b>	<b>2</b>	7/21/2011 07:55 PM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>See report</b>		<b>SUBCONTRACT</b>		<b>Analyst: A&amp;LGL</b>	
			<b>as noted</b>		<b>1</b>	7/25/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>SW8270</b>					<b>Prep Date: 7/20/2011</b>	<b>Analyst: JG</b>
Acenaphthene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Anthracene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Chrysene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Fluoranthene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Fluorene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Naphthalene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Pyrene	ND		37	µg/Kg-dry	1	7/22/2011 11:52 AM
Surr: 2,4,6-Tribromophenol	60.3		34-140	%REC	1	7/22/2011 11:52 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
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
<b>m,p-Xylene</b>	<b>350</b>		<b>250</b>	<b>µg/Kg-dry</b>	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
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	11			mg/kg-dry	1	7/25/2011 07:55 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>7/21/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	7/22/2011 03:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>JS</b>
Moisture	20		0.050	% of sample	1	7/20/2011 12:00 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JJG</b>
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
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>RM</b>
<b>DRO (C10-C28)</b>	<b>49</b>		<b>5.1</b>	<b>mg/Kg-dry</b>	1	7/21/2011 06:59 PM
Surr: 4-Terphenyl-d14	99.0		39-115	%REC	1	7/21/2011 06:59 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015</b>			Analyst: <b>RM</b>
GRO (C6-C10)	ND		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
<b>MERCURY BY CVAA</b>						
			<b>SW7471</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>CES</b>
<b>Mercury</b>	<b>0.039</b>		<b>0.022</b>	<b>mg/Kg-dry</b>	1	7/21/2011 02:54 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020A</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>CES</b>
<b>Arsenic</b>	<b>4.7</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
<b>Barium</b>	<b>4,200</b>		<b>95</b>	<b>mg/Kg-dry</b>	200	7/22/2011 01:13 PM
Cadmium	ND		0.38	mg/Kg-dry	2	7/21/2011 08:24 PM
<b>Chromium</b>	<b>12</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
<b>Copper</b>	<b>12</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
<b>Lead</b>	<b>11</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
<b>Nickel</b>	<b>11</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
<b>Selenium</b>	<b>1.2</b>		<b>0.95</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
Silver	ND		0.95	mg/Kg-dry	2	7/21/2011 08:24 PM
<b>Zinc</b>	<b>220</b>		<b>1.9</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:24 PM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>See report</b>		<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			<b>as noted</b>		1	7/25/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>JG</b>
Acenaphthene	ND		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
<b>m,p-Xylene</b>	<b>690</b>		<b>250</b>	<b>µg/Kg-dry</b>	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
<b>o-Xylene</b>	<b>250</b>		<b>130</b>	<b>µg/Kg-dry</b>	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
<b>Xylenes, Total</b>	<b>940</b>		<b>380</b>	<b>µg/Kg-dry</b>	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
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	12			mg/kg-dry	1	7/25/2011 07:55 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>7/21/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	7/22/2011 03:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>JS</b>
Moisture	20		0.050	% of sample	1	7/20/2011 12:00 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JJG</b>
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
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>51</b>		<b>SW8015M</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>RM</b>
			<b>5.2</b>	<b>mg/Kg-dry</b>	1	7/21/2011 07:22 PM
Surr: 4-Terphenyl-d14	66.6		39-115	%REC	1	7/21/2011 07:22 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015</b>			Analyst: <b>RM</b>
			<b>6.4</b>	<b>mg/Kg-dry</b>	100	7/22/2011 12:21 PM
Surr: Toluene-d8	105		50-150	%REC	100	7/22/2011 12:21 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.035</b>		<b>SW7471</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>CES</b>
			<b>0.024</b>	<b>mg/Kg-dry</b>	1	7/21/2011 03:01 PM
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>4.5</b>		<b>SW6020A</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>CES</b>
			<b>0.79</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
<b>Barium</b>	<b>3,600</b>		<b>79</b>	<b>mg/Kg-dry</b>	200	7/22/2011 01:19 PM
Cadmium	ND		0.32	mg/Kg-dry	2	7/21/2011 08:30 PM
<b>Chromium</b>	<b>13</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
<b>Copper</b>	<b>12</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
<b>Lead</b>	<b>11</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
<b>Nickel</b>	<b>12</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
<b>Selenium</b>	<b>1.3</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
Silver	ND		0.79	mg/Kg-dry	2	7/21/2011 08:30 PM
<b>Zinc</b>	<b>190</b>		<b>1.6</b>	<b>mg/Kg-dry</b>	2	7/21/2011 08:30 PM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>See report</b>		<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			<b>as noted</b>		1	7/25/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>Acenaphthene</b>	<b>ND</b>		<b>SW8270</b>		Prep Date: <b>7/20/2011</b>	Analyst: <b>JG</b>
			<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Anthracene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Benzo(a)pyrene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Benzo(g,h,i)perylene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Chrysene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Fluoranthene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Fluorene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Naphthalene</b>	<b>45</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
<b>Pyrene</b>	<b>ND</b>		<b>38</b>	<b>µg/Kg-dry</b>	1	7/22/2011 12:59 PM
Surr: 2,4,6-Tribromophenol	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
<b>m,p-Xylene</b>	<b>590</b>		<b>250</b>	<b>µg/Kg-dry</b>	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
<b>o-Xylene</b>	<b>220</b>		<b>130</b>	<b>µg/Kg-dry</b>	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
<b>Xylenes, Total</b>	<b>810</b>		<b>380</b>	<b>µg/Kg-dry</b>	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
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	13			mg/kg-dry	1	7/25/2011 07:55 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>7/21/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.62	mg/Kg-dry	1	7/22/2011 03:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>JS</b>
Moisture	21		0.050	% of sample	1	7/20/2011 12:00 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JJG</b>
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.

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**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**

<b>MBLK</b>	Sample ID: <b>DBLKS1-34440-34440</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/21/2011 05:00 PM</b>			
Client ID:	Run ID: <b>GC8_110721A</b>				SeqNo: <b>1684142</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>	
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>			

<b>LCS</b>	Sample ID: <b>DLCSS1-34440-34440</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/21/2011 03:49 PM</b>			
Client ID:	Run ID: <b>GC8_110721A</b>				SeqNo: <b>1684140</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>	
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>			

<b>LCSD</b>	Sample ID: <b>DLCSDS1-34440-34440</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2011 08:08 PM</b>			
Client ID:	Run ID: <b>GC8_110724A</b>				SeqNo: <b>1685502</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>	
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>	

<b>MS</b>	Sample ID: <b>1107410-03A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/21/2011 04:13 PM</b>			
Client ID:	Run ID: <b>GC8_110721A</b>				SeqNo: <b>1684141</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>	
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>			

<b>MSD</b>	Sample ID: <b>1107410-03A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/21/2011 04:36 PM</b>			
Client ID:	Run ID: <b>GC8_110721A</b>				SeqNo: <b>1684108</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>	
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**

<b>MBLK</b>	Sample ID: <b>MBLK-R92486-R92486</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/22/2011 03:59 AM</b>			
Client ID:	Run ID: <b>GC9_110721B</b>				SeqNo: <b>1682945</b>		Prep Date:		DF: <b>1</b>	
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>			

<b>LCS</b>	Sample ID: <b>LCS-R92486-R92486</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/22/2011 02:40 AM</b>			
Client ID:	Run ID: <b>GC9_110721B</b>				SeqNo: <b>1682943</b>		Prep Date:		DF: <b>1</b>	
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>			

<b>LCSD</b>	Sample ID: <b>LCSD-R92486-R92486</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/22/2011 03:06 AM</b>			
Client ID:	Run ID: <b>GC9_110721B</b>				SeqNo: <b>1682944</b>		Prep Date:		DF: <b>1</b>	
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>	

<b>MS</b>	Sample ID: <b>1107410-03B MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/22/2011 01:13 PM</b>			
Client ID:	Run ID: <b>GC9_110721B</b>				SeqNo: <b>1684418</b>		Prep Date:		DF: <b>50</b>	
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>			

<b>MSD</b>	Sample ID: <b>1107410-03B MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/22/2011 01:40 PM</b>			
Client ID:	Run ID: <b>GC9_110721B</b>				SeqNo: <b>1684419</b>		Prep Date:		DF: <b>50</b>	
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**

<b>MBLK</b>	Sample ID: <b>MBLK-34442-34442</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>7/21/2011 02:35 PM</b>		
Client ID:	Run ID: <b>HG1_110721A</b>				SeqNo: <b>1682781</b>			Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

<b>LCS</b>	Sample ID: <b>LCS-34442-34442</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>7/21/2011 02:37 PM</b>		
Client ID:	Run ID: <b>HG1_110721A</b>				SeqNo: <b>1682802</b>			Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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		

<b>LCSD</b>	Sample ID: <b>LCSD-34442-34442</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>7/21/2011 02:39 PM</b>		
Client ID:	Run ID: <b>HG1_110721A</b>				SeqNo: <b>1682803</b>			Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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

<b>MS</b>	Sample ID: <b>1107478-06BMS</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>7/21/2011 03:33 PM</b>		
Client ID:	Run ID: <b>HG1_110721A</b>				SeqNo: <b>1682828</b>			Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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		

<b>MSD</b>	Sample ID: <b>1107478-06BMSD</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>7/21/2011 03:35 PM</b>		
Client ID:	Run ID: <b>HG1_110721A</b>				SeqNo: <b>1682829</b>			Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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**

<b>MBLK</b>	Sample ID: <b>MBLK-34426-34426</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/20/2011 11:38 AM</b>			
Client ID:	Run ID: <b>ICPMS1_110720A</b>			SeqNo: <b>1681565</b>			Prep Date: <b>7/20/2011</b>		DF: <b>1</b>	
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								

<b>LCS</b>	Sample ID: <b>LCS-34426-34426</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/20/2011 11:44 AM</b>			
Client ID:	Run ID: <b>ICPMS1_110720A</b>			SeqNo: <b>1681566</b>			Prep Date: <b>7/20/2011</b>		DF: <b>2</b>	
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			

<b>LCSD</b>	Sample ID: <b>LCSD-34426-34426</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/20/2011 11:50 AM</b>			
Client ID:	Run ID: <b>ICPMS1_110720A</b>			SeqNo: <b>1681567</b>			Prep Date: <b>7/20/2011</b>		DF: <b>2</b>	
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: <b>1107444-04BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/20/2011 12:25 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110720A</b>				SeqNo: <b>1681573</b>		Prep Date: <b>7/20/2011</b>		DF: <b>4</b>
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: <b>1107456-03BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/21/2011 06:14 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110721A</b>				SeqNo: <b>1683389</b>		Prep Date: <b>7/20/2011</b>		DF: <b>4</b>
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: <b>1107444-04BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/20/2011 12:30 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110720A</b>				SeqNo: <b>1681574</b>		Prep Date: <b>7/20/2011</b>		DF: <b>4</b>
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: <b>SBLKS1-34439-34439</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/21/2011 08:48 PM</b>		
Client ID:		Run ID: <b>SVMS5_110721A</b>				SeqNo: <b>1683514</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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: <b>SLCSS1-34439-34439</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/21/2011 09:25 PM</b>		
Client ID:		Run ID: <b>SVMS5_110721A</b>				SeqNo: <b>1683515</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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>	<i>1193</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>71.6</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>961.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>57.7</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>892.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>53.5</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1226</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>73.6</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1175</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>70.5</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>992.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>59.6</i>	<i>40-106</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: **34439**      Instrument ID **SVMS5**      Method: **SW8270**

LCSD		Sample ID: <b>SLCSDS1-34439-34439</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/21/2011 10:00 PM</b>		
Client ID:		Run ID: <b>SVMS5_110721A</b>				SeqNo: <b>1683516</b>		Prep Date: <b>7/20/2011</b>		DF: <b>1</b>
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>	1212	0	1667	0	72.7	34-140	1193	1.58	40	
<i>Surr: 2-Fluorobiphenyl</i>	735.3	0	1667	0	44.1	12-100	961.7	26.7	40	
<i>Surr: 2-Fluorophenol</i>	738.3	0	1667	0	44.3	33-117	892.3	18.9	40	
<i>Surr: 4-Terphenyl-d14</i>	1256	0	1667	0	75.4	25-137	1226	2.39	40	
<i>Surr: Nitrobenzene-d5</i>	885.3	0	1667	0	53.1	37-107	1175	28.1	40	
<i>Surr: Phenol-d6</i>	797.3	0	1667	0	47.8	40-106	992.7	21.8	40	

**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: <b>1107410-03A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/21/2011 11:12 PM</b>	
Client ID:				Run ID: <b>SVMS5_110721A</b>			SeqNo: <b>1683518</b>		Prep Date: <b>7/20/2011</b>	
									DF: <b>1</b>	
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: <b>VLCSW1-110720-R92473</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/20/2011 07:51 PM</b>		
Client ID:		Run ID: <b>VMS6_110720A</b>				SeqNo: <b>1682495</b>		Prep Date:		DF: <b>1</b>
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			
Surr: 1,2-Dichloroethane-d4										
	102.2	0	100	0	102	70-120	0			
Surr: 4-Bromofluorobenzene										
	100.1	0	100	0	100	75-120	0			
Surr: Dibromofluoromethane										
	102.2	0	100	0	102	85-115	0			
Surr: Toluene-d8										
	101.4	0	100	0	101	85-120	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: **R92473**      Instrument ID **VMS6**      Method: **SW8260**

LCSD		Sample ID: <b>VLCSDW1-110720-R92473</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/20/2011 08:19 PM</b>		
Client ID:		Run ID: <b>VMS6_110720A</b>				SeqNo: <b>1682497</b>		Prep Date:		DF: <b>1</b>
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**

<b>MBLK</b>	Sample ID: <b>MBLK-34503-34503</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/22/2011 03:00 PM</b>			
Client ID:	Run ID: <b>WETCHEM_110722F</b>				SeqNo: <b>1684520</b>		Prep Date: <b>7/21/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.50								

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

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

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

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

<b>DUP</b>	Sample ID: <b>1107468-03ADUP</b>				Units: <b>s.u.</b>			Analysis Date: <b>7/20/2011 08:30 AM</b>		
Client ID:	Run ID: <b>WETCHEM_110720G</b>				SeqNo: <b>1681657</b>			Prep Date:		DF: <b>1</b>
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	

<b>DUP</b>	Sample ID: <b>1107475-01ADUP</b>				Units: <b>s.u.</b>			Analysis Date: <b>7/20/2011 08:30 AM</b>		
Client ID:	Run ID: <b>WETCHEM_110720G</b>				SeqNo: <b>1681665</b>			Prep Date:		DF: <b>1</b>
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**

<b>MBLK</b>	Sample ID: <b>WBLKS1-R92429</b>				Units: <b>% of sample</b>			Analysis Date: <b>7/20/2011 12:00 PM</b>		
Client ID:	Run ID: <b>MOIST_110720A</b>				SeqNo: <b>1681687</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

<b>LCS</b>	Sample ID: <b>LCS-R92429</b>				Units: <b>% of sample</b>			Analysis Date: <b>7/20/2011 12:00 PM</b>		
Client ID:	Run ID: <b>MOIST_110720A</b>				SeqNo: <b>1681686</b>		Prep Date:		DF: <b>1</b>	
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			

<b>DUP</b>	Sample ID: <b>1107467-01ADUP</b>				Units: <b>% of sample</b>			Analysis Date: <b>7/20/2011 12:00 PM</b>		
Client ID:	Run ID: <b>MOIST_110720A</b>				SeqNo: <b>1681675</b>		Prep Date:		DF: <b>1</b>	
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	

<b>DUP</b>	Sample ID: <b>1107474-03ADUP</b>				Units: <b>% of sample</b>			Analysis Date: <b>7/20/2011 12:00 PM</b>		
Client ID:	Run ID: <b>MOIST_110720A</b>				SeqNo: <b>1681685</b>		Prep Date:		DF: <b>1</b>	
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				E-MAIL											
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TEPH - DRO	TYPH - GRO	TOTAL METALS (910-1 LIST)	SEMI VOLTS -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)
		LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

SIGNATURE	PRINTED NAME	DATE	TIME
<i>[Signature]</i>	Kris Rowe	7/19/2011	17:00
RECEIVED BY	<i>[Signature]</i>	7/20/11	1105
RECEIVED BY			
RECEIVED BY			
RECEIVED BY			

**Subcontractor:**A & L Great Lakes Agricultural La  
3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Acct #: 91000

Ft. Wayne, IN 46808

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

Date: 20-Jul-11COC ID: 3005Due 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											
<b>Sample ID</b>	<b>Matrix</b>	<b>Collection Date 24hr</b>	<b>Bottle</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>		
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

Std

Relinquished by:

Date/Time

Received by:

Date/Time

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**

☐ 06

**FedEx First Overnight**

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

☒ 01

**FedEx Priority Overnight**

Next business morning. \* Friday shipments will be  
delivered on Monday unless SATURDAY Delivery  
is selected.

☐ 05

**FedEx Standard Overnight**

Next business afternoon.  
Saturday Delivery NOT available.

**2 or 3 Business Days**

☐ 49

**NEW FedEx 2Day A.M.**

Second business morning.  
Saturday Delivery NOT available.

☐ 03

**FedEx 2Day**

Second business afternoon. \* Thursday shipments  
will be delivered on Monday unless SATURDAY  
Delivery is selected.

☐ 20

**FedEx Express Saver**

Third business day.  
Saturday Delivery NOT available.

**5 Packaging**

\* Declared value limit \$500.

☐ 06

**FedEx Envelope\***

☐ 02

**FedEx Pak\***

☐ 03

**FedEx  
Box**

☐ 04

**FedEx  
Tube**

☒ 01

**Other**

**6 Special Handling and Delivery Signature Options**

☐ 03

**SATURDAY DELIVERY**

☒

**No Signature Required**

Package may be left without  
obtaining a signature for delivery.

☐ 10

**Direct Signature**

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

☐ 34

**Indirect Signature**

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

Does this shipment contain dangerous goods?

One box must be checked.

☒

**No**

☐ 04

**Yes**

As per attached  
Dangerous Goods Declaration

☐ Yes

Shipper's Declaration

☐ 06

**Dry Ice**

Dry Ice 9. UN 1845

☐

**Yg**

**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.

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Black Hills Fed 35-2 Stockpile Sampling Analytical Results	Regulatory Standard	Bottom 8-9ft Inward	Middle 2-3ft Inward	Top 4-5ft Inward	South End 4-5ft Inward
DRO	500	60	54	49	51
GRO		N/D	N/D	N/D	N/D
Mercury	23	0.031	0.024	0.039	0.035
Arsenic	0.39	4.7	4.7	4.7	4.5
Barium	15,000	4,300	4,200	4,200	3,600
Cadmium	70	N/D	N/D	N/D	N/D
Chromium	N/A	12	11	12	13
Copper	3,100	11	11	12	12
Lead	400	11	11	11	11
Nickel	1,600	12	11	11	12
Selenium	390	1.2	1.2	1.2	1.3
Silver	390	N/D	N/D	N/D	N/D
Zinc	23,000	220	210	220	190
Acenaphthene	1,000	N/D	N/D	N/D	N/D
Anthracene	1,000	N/D	N/D	N/D	N/D
Benzo(a)anthracene	0.22	N/D	N/D	N/D	N/D
Benzo(a)pyrene	0.022	N/D	N/D	N/D	N/D
Benzo(b)fluoranthene	0.22	N/D	N/D	N/D	N/D
Benzo(g,h,i)perylene	N/A	N/D	N/D	N/D	N/D
Benzo(k)fluoranthene	2.2	N/D	N/D	N/D	N/D
Chrysene	22	N/D	N/D	N/D	N/D
Dibenzo(a,h)anthracene	0.022	N/D	N/D	N/D	N/D
Fluoranthene	1,000	N/D	N/D	N/D	N/D
Fluorene	1,000	N/D	N/D	N/D	N/D
Indeno(1,2,3-cd)pyrene	0.22	N/D	N/D	N/D	N/D
Naphthalene	23	0.05	N/D	N/D	0.045
Pyrene	1,000	N/D	N/D	N/D	N/D
1,1,1-Trichloroethane	1,000	N/D	N/D	N/D	N/D
1,1,2,2-Tetrachloroethane	0.42	N/D	N/D	N/D	N/D
1,1,2-Trichloroethane	0.85	N/D	N/D	N/D	N/D
1,1-Dichloroethane	480	N/D	N/D	N/D	N/D
1,1-Dichloroethene	480	N/D	N/D	N/D	N/D
1,2-Dichloroethane	0.33	N/D	N/D	N/D	N/D
1,2-Dichloropropane	0.4	N/D	N/D	N/D	N/D
2-Butanone	1,000	N/D	N/D	N/D	N/D
2-Hexanone	N/A	N/D	N/D	N/D	N/D
4-Methyl-2-pentanone	1,000	N/D	N/D	N/D	N/D
Acetone	1,000	N/D	N/D	N/D	N/D
Benzene	0.17	N/D	N/D	N/D	N/D
Bromodichloromethane	0.63	N/D	N/D	N/D	N/D
Bromoform	20	N/D	N/D	N/D	N/D
Bromomethane	3.7	N/D	N/D	N/D	N/D

Carbon disulfide	280	N/D	N/D	N/D	N/D
Carbon tetrachloride	0.18	N/D	N/D	N/D	N/D
Chlorobenzene	N/A	N/D	N/D	N/D	N/D
Chloroethane	2.1	N/D	N/D	N/D	N/D
Chloroform	N/A	N/D	N/D	N/D	N/D
Chloromethane	47	N/D	N/D	N/D	N/D
cis-1,2-Dichloroethene	42	N/D	N/D	N/D	N/D
cis-1,3-Dichloropropene	2	N/D	N/D	N/D	N/D
Dibromochloromethane	0.87	N/D	N/D	N/D	N/D
Ethylbenzene	1000	N/D	N/D	N/D	N/D
o-Xylene	N/A	0.25	N/D	0.25	0.59
m,p-Xylene	N/A	0.70	0.35	0.69	0.22
Xylene, Total	175	0.95	N/D	N/D	810
Methyl iodide	N/A	N/D	N/D	N/D	N/D
Methylene chloride	9	N/D	N/D	N/D	N/D
Styrene	1,000	N/D	N/D	N/D	N/D
Tetrachloroethene	0.45	N/D	N/D	N/D	N/D
Toluene	85	N/D	N/D	N/D	N/D
trans-1,2-Dichloroethene	60	N/D	N/D	N/D	N/D
trans-1,3-Dichloropropene	2	N/D	N/D	N/D	N/D
trans-1,4-Dichloro-2-butene	N/A	N/D	N/D	N/D	N/D
Trichloroethene	0.039	N/D	N/D	N/D	N/D
Vinyl acetate	390	N/D	N/D	N/D	N/D
Chromium, Trivalent	120,000	12	11	12	N/D
Chromium, Hexavalent	23	N/D	N/D	N/D	N/D
pH (unitless)	6-9	8.1	8.37	8.42	8.16
Sodium Absorption Ratio	<12	67.2	57.8	60	57.3
Electrical Conductivity (mmhos/cm)	<4 or 2X BKGD	9.19	6.06	7.13	8.28

Note: Exceedances are highlighted in yellow

All results are in milligram per kilogram (mg/kg)



**BlackHills  
Plateau Production, LLC  
Shire Gulch  
Federal 35-2**

**Legend**

- Pit Bottom Sample Location
- Composite Sample Location
- Background Sample Location

Stockpile

Pad Area

**Background Features**

Drainages

Roads

DISCLAIMER: This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.



## Location History

The Federal 35-2 was onsited with BLM in 2005. The APD was approved by BLM on October 26, 2007 and by COGCC on September 27, 2007. The well was drilled in November 2007 and completed in January 2008. The location is federal minerals, private surface. Prior to drilling, a surface use agreement was reached with the private surface owner that entitled him to perform the interim reclamation dirt work to meet his own specifications. During interim reclamation, Black Hills presumes the landowner decided to bury drilling mud in the location uncovered during the construction of the frac pit in June 2011.

Black Hills Plateau Production is proposing to take the soils to Black Mountain Disposal Facility in Debeque for proper disposal.

Contact: Jeff Been  
Black Mountain Disposal Facility  
15655 County Road 45.5  
De Beque, CO 81630  
970-250-6022