



11-Feb-2013

Mark Mumby
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Gunnison SPU 23-33 Prod. Water Spill 13-121**

Work Order: **1302160**

Dear Mark,

ALS Environmental received 6 samples on 06-Feb-2013 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 30.

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

Sincerely,

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

Electronically approved by: Alex Cszaszar

Ann Preston
Project Manager



Certificate No: MN331938

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

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121
Work Order: 1302160

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1302160-01	Spill Source	Soil		2/4/2013 13:55	2/6/2013 10:00	<input type="checkbox"/>
1302160-02	Diversion Ditch	Soil		2/4/2013 14:00	2/6/2013 10:00	<input type="checkbox"/>
1302160-03	Right of Way	Water		2/4/2013 14:05	2/6/2013 10:00	<input type="checkbox"/>
1302160-04	BKGD 1	Soil		2/4/2013 15:20	2/6/2013 10:00	<input type="checkbox"/>
1302160-05	BKGD 2	Soil		2/4/2013 15:50	2/6/2013 10:00	<input type="checkbox"/>
1302160-06	BKGD 3	Soil		2/4/2013 16:10	2/6/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121
Work Order: 1302160

Case Narrative**QC and Sample Comments:**

Batch 46284, MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

Batch 46287, MS/MSD data for Semi-Volatiles is not related to this project's samples. No data requires qualification.

Batch 46291, MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 46291, Method ICP_6020_S, Sample 1302160-01B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 46291, Method ICP_6020_S, Sample 1302160-02B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 46300, Method CR6_7196_S, Sample 1302160-01B MS and MSD: The MS and MSD recoveries were below the control limits for CR6. The reported result in the parent sample may be biased low.

Client: HRL Compliance Solutions
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121
WorkOrder: 1302160

QUALIFIERS, ACRONYMS, UNITS

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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
µmhos/cm @25°	
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Sample ID: Spill Source

Collection Date: 2/4/2013 01:55 PM

Work Order: 1302160

Lab ID: 1302160-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	81		SW8015M		Prep Date: 2/7/2013	Analyst: CW
			6.0	mg/Kg-dry	1	2/8/2013 11:17 AM
Surr: 4-Terphenyl-d14	65.0		39-115	%REC	1	2/8/2013 11:17 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	11		SW8015			Analyst: CW
			3.6	mg/Kg-dry	50	2/7/2013 12:40 PM
Surr: Toluene-d8	106		50-150	%REC	50	2/7/2013 12:40 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 2/7/2013	Analyst: LR
			0.020	mg/Kg-dry	1	2/7/2013 02:55 PM
METALS BY ICP-MS						
Arsenic	2.1		SW6020A		Prep Date: 2/7/2013	Analyst: CES
			0.43	mg/Kg-dry	2	2/7/2013 05:04 PM
Barium	180		1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Cadmium	ND		0.43	mg/Kg-dry	2	2/7/2013 05:04 PM
Chromium	14		1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Copper	10		1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Lead	11		1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Nickel	17		1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Selenium	1.1	J	1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Silver	ND		1.1	mg/Kg-dry	2	2/7/2013 05:04 PM
Zinc	39		2.2	mg/Kg-dry	2	2/7/2013 05:04 PM
SOLUBLE CATIONS FOR SAR						
Calcium	170		SW6020A		Prep Date: 2/8/2013	Analyst: RH
			7.2	mg/L-dry	10	2/8/2013 04:39 PM
Magnesium	41		2.9	mg/L-dry	10	2/8/2013 04:39 PM
Sodium	1,200		2.9	mg/L-dry	10	2/8/2013 04:39 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	17		USDA H60 METHO		Prep Date: 2/8/2013	Analyst: RH
			0.010	none	1	2/8/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 2/7/2013	Analyst: RM
			21	µg/Kg-dry	1	2/8/2013 11:00 AM
Acenaphthylene	ND		43	µg/Kg-dry	1	2/8/2013 11:00 AM
Anthracene	ND		21	µg/Kg-dry	1	2/8/2013 11:00 AM
Benzo(a)anthracene	ND		24	µg/Kg-dry	1	2/8/2013 11:00 AM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	2/8/2013 11:00 AM
Benzo(b)fluoranthene	ND		26	µg/Kg-dry	1	2/8/2013 11:00 AM
Benzo(g,h,i)perylene	ND		40	µg/Kg-dry	1	2/8/2013 11:00 AM
Benzo(k)fluoranthene	ND		26	µg/Kg-dry	1	2/8/2013 11:00 AM
Chrysene	ND		21	µg/Kg-dry	1	2/8/2013 11:00 AM
Dibenzo(a,h)anthracene	ND		26	µg/Kg-dry	1	2/8/2013 11:00 AM
Fluoranthene	ND		21	µg/Kg-dry	1	2/8/2013 11:00 AM

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

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Work Order: 1302160

Sample ID: Spill Source

Lab ID: 1302160-01

Collection Date: 2/4/2013 01:55 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		21	µg/Kg-dry	1	2/8/2013 11:00 AM
Indeno(1,2,3-cd)pyrene	ND		29	µg/Kg-dry	1	2/8/2013 11:00 AM
Naphthalene	28		21	µg/Kg-dry	1	2/8/2013 11:00 AM
Pyrene	ND		21	µg/Kg-dry	1	2/8/2013 11:00 AM
Surr: 2-Fluorobiphenyl	74.7		12-100	%REC	1	2/8/2013 11:00 AM
Surr: 4-Terphenyl-d14	98.9		25-137	%REC	1	2/8/2013 11:00 AM
Surr: Nitrobenzene-d5	79.5		37-107	%REC	1	2/8/2013 11:00 AM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 2/6/2013	Analyst: RS
Benzene	70		43	µg/Kg-dry	1	2/7/2013 08:24 PM
Ethylbenzene	ND		43	µg/Kg-dry	1	2/7/2013 08:24 PM
m,p-Xylene	430		87	µg/Kg-dry	1	2/7/2013 08:24 PM
o-Xylene	130		43	µg/Kg-dry	1	2/7/2013 08:24 PM
Toluene	250		43	µg/Kg-dry	1	2/7/2013 08:24 PM
Xylenes, Total	560		130	µg/Kg-dry	1	2/7/2013 08:24 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	2/7/2013 08:24 PM
Surr: 4-Bromofluorobenzene	99.0		70-130	%REC	1	2/7/2013 08:24 PM
Surr: Dibromofluoromethane	99.6		70-130	%REC	1	2/7/2013 08:24 PM
Surr: Toluene-d8	94.0		70-130	%REC	1	2/7/2013 08:24 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 2/8/2013	Analyst: JB
Electrical Conductivity @ Saturation	3.3		0.0075	mmhos/cm @2	1.5	2/8/2013 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	14		0.72	mg/Kg-dry	1	2/8/2013 04:55 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 2/7/2013	Analyst: JB
Chromium, Hexavalent	ND		0.74	mg/Kg-dry	1	2/8/2013 12:00 PM
MOISTURE			A2540 G			Analyst: LR
Moisture	31		0.050	% of sample	1	2/6/2013 03:25 PM
PH			SW9045D			Analyst: JB
pH	6.18			s.u.	1	2/6/2013 10:00 AM

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

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Sample ID: Diversion Ditch

Collection Date: 2/4/2013 02:00 PM

Work Order: 1302160

Lab ID: 1302160-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	230		SW8015M		Prep Date: 2/7/2013	Analyst: CW
			5.9	mg/Kg-dry	1	2/8/2013 11:42 AM
Surr: 4-Terphenyl-d14	102		39-115	%REC	1	2/8/2013 11:42 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: CW
			3.5	mg/Kg-dry	50	2/7/2013 01:04 PM
Surr: Toluene-d8	114		50-150	%REC	50	2/7/2013 01:04 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 2/7/2013	Analyst: LR
			0.020	mg/Kg-dry	1	2/7/2013 02:58 PM
METALS BY ICP-MS						
Arsenic	2.3		SW6020A		Prep Date: 2/7/2013	Analyst: CES
			0.44	mg/Kg-dry	2	2/7/2013 05:41 PM
Barium	220		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Cadmium	ND		0.44	mg/Kg-dry	2	2/7/2013 05:41 PM
Chromium	14		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Copper	11		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Lead	14		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Nickel	17		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Selenium	1.2		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Silver	ND		1.1	mg/Kg-dry	2	2/7/2013 05:41 PM
Zinc	40		2.2	mg/Kg-dry	2	2/7/2013 05:41 PM
SOLUBLE CATIONS FOR SAR						
Calcium	440		SW6020A		Prep Date: 2/8/2013	Analyst: RH
			7.1	mg/L-dry	10	2/8/2013 04:49 PM
Magnesium	110		2.8	mg/L-dry	10	2/8/2013 04:49 PM
Sodium	990		2.8	mg/L-dry	10	2/8/2013 04:49 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	9.1		USDA H60 METHO		Prep Date: 2/8/2013	Analyst: RH
			0.010	none	1	2/8/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 2/7/2013	Analyst: RM
			21	µg/Kg-dry	1	2/8/2013 11:25 AM
Acenaphthylene	ND		42	µg/Kg-dry	1	2/8/2013 11:25 AM
Anthracene	ND		21	µg/Kg-dry	1	2/8/2013 11:25 AM
Benzo(a)anthracene	ND		24	µg/Kg-dry	1	2/8/2013 11:25 AM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	2/8/2013 11:25 AM
Benzo(b)fluoranthene	ND		25	µg/Kg-dry	1	2/8/2013 11:25 AM
Benzo(g,h,i)perylene	ND		39	µg/Kg-dry	1	2/8/2013 11:25 AM
Benzo(k)fluoranthene	ND		25	µg/Kg-dry	1	2/8/2013 11:25 AM
Chrysene	ND		21	µg/Kg-dry	1	2/8/2013 11:25 AM
Dibenzo(a,h)anthracene	ND		25	µg/Kg-dry	1	2/8/2013 11:25 AM
Fluoranthene	ND		21	µg/Kg-dry	1	2/8/2013 11:25 AM

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

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Sample ID: Diversion Ditch

Collection Date: 2/4/2013 02:00 PM

Work Order: 1302160

Lab ID: 1302160-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	38		21	µg/Kg-dry	1	2/8/2013 11:25 AM
Indeno(1,2,3-cd)pyrene	ND		28	µg/Kg-dry	1	2/8/2013 11:25 AM
Naphthalene	94		21	µg/Kg-dry	1	2/8/2013 11:25 AM
Pyrene	ND		21	µg/Kg-dry	1	2/8/2013 11:25 AM
Surr: 2-Fluorobiphenyl	66.5		12-100	%REC	1	2/8/2013 11:25 AM
Surr: 4-Terphenyl-d14	96.4		25-137	%REC	1	2/8/2013 11:25 AM
Surr: Nitrobenzene-d5	67.1		37-107	%REC	1	2/8/2013 11:25 AM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 2/6/2013	Analyst: RS
Benzene	ND		43	µg/Kg-dry	1	2/7/2013 08:49 PM
Ethylbenzene	ND		43	µg/Kg-dry	1	2/7/2013 08:49 PM
m,p-Xylene	230		85	µg/Kg-dry	1	2/7/2013 08:49 PM
o-Xylene	82		43	µg/Kg-dry	1	2/7/2013 08:49 PM
Toluene	51		43	µg/Kg-dry	1	2/7/2013 08:49 PM
Xylenes, Total	310		130	µg/Kg-dry	1	2/7/2013 08:49 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	2/7/2013 08:49 PM
Surr: 4-Bromofluorobenzene	99.3		70-130	%REC	1	2/7/2013 08:49 PM
Surr: Dibromofluoromethane	99.8		70-130	%REC	1	2/7/2013 08:49 PM
Surr: Toluene-d8	91.2		70-130	%REC	1	2/7/2013 08:49 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 2/8/2013	Analyst: JB
Electrical Conductivity @ Saturation	5.4		0.0075	mmhos/cm @2	1.5	2/8/2013 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	14		0.71	mg/Kg-dry	1	2/8/2013 04:55 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 2/7/2013	Analyst: JB
Chromium, Hexavalent	ND		0.70	mg/Kg-dry	1	2/8/2013 12:00 PM
MOISTURE			A2540 G			Analyst: LR
Moisture	30		0.050	% of sample	1	2/6/2013 03:25 PM
PH			SW9045D			Analyst: JB
pH	6.47			s.u.	1	2/6/2013 10:00 AM

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

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Work Order: 1302160

Sample ID: Right of Way

Lab ID: 1302160-03

Collection Date: 2/4/2013 02:05 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 2/7/2013	Analyst: CW
DRO (C10-C28)	2.3		0.10	mg/L	1	2/7/2013 02:46 PM
Surr: 4-Terphenyl-d14	26.0		21-90	%REC	1	2/7/2013 02:46 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	0.63		0.20	mg/L	1	2/7/2013 01:28 PM
Surr: Toluene-d8	112		70-130	%REC	1	2/7/2013 01:28 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: AK
Benzene	8.1		1.0	µg/L	1	2/7/2013 05:14 PM
Ethylbenzene	4.9		1.0	µg/L	1	2/7/2013 05:14 PM
m,p-Xylene	58		2.0	µg/L	1	2/7/2013 05:14 PM
o-Xylene	21		1.0	µg/L	1	2/7/2013 05:14 PM
Toluene	30		1.0	µg/L	1	2/7/2013 05:14 PM
Xylenes, Total	79		3.0	µg/L	1	2/7/2013 05:14 PM
Surr: 1,2-Dichloroethane-d4	97.3		70-120	%REC	1	2/7/2013 05:14 PM
Surr: 4-Bromofluorobenzene	102		75-120	%REC	1	2/7/2013 05:14 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	2/7/2013 05:14 PM
Surr: Toluene-d8	95.4		85-120	%REC	1	2/7/2013 05:14 PM
ANIONS BY ION CHROMATOGRAPHY						
			SW9056			Analyst: ED
Chloride	780		100	mg/L	100	2/7/2013 01:28 PM

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

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Work Order: 1302160

Sample ID: BKGD 1

Lab ID: 1302160-04

Collection Date: 2/4/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 2/7/2013	Analyst: CES
Arsenic	2.6		1.2	mg/Kg-dry	5	2/7/2013 05:46 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 2/8/2013	Analyst: RH
Calcium	180		7.9	mg/L-dry	10	2/8/2013 04:08 PM
Magnesium	69		3.1	mg/L-dry	10	2/8/2013 04:08 PM
Sodium	21		3.1	mg/L-dry	10	2/8/2013 04:08 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 2/8/2013	Analyst: RH
Sodium Adsorption Ratio	0.27		0.010	none	1	2/8/2013
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 2/8/2013	Analyst: JB
Electrical Conductivity @ Saturation	0.54		0.0075	mmhos/cm @2	1.5	2/8/2013 03:00 PM
MOISTURE			A2540 G			Analyst: LR
Moisture	36		0.050	% of sample	1	2/6/2013 03:25 PM
PH			SW9045D			Analyst: JB
pH	6.88			s.u.	1	2/6/2013 10:00 AM

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

ALS Group USA, Corp**Date:** 11-Feb-13**Client:** HRL Compliance Solutions**Project:** Gunnison SPU 23-33 Prod. Water Spill 13-121**Work Order:** 1302160**Sample ID:** BKGD 2**Lab ID:** 1302160-05**Collection Date:** 2/4/2013 03:50 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 2/7/2013	Analyst: CES
Arsenic	2.2		1.3	mg/Kg-dry	5	2/7/2013 05:52 PM
MOISTURE			A2540 G			Analyst: LR
Moisture	36		0.050	% of sample	1	2/6/2013 03:25 PM

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

ALS Group USA, Corp

Date: 11-Feb-13

Client: HRL Compliance Solutions

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

Work Order: 1302160

Sample ID: BKGD 3

Lab ID: 1302160-06

Collection Date: 2/4/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 2/7/2013	Analyst: CES
Arsenic	1.9		1.2	mg/Kg-dry	5	2/7/2013 05:58 PM
MOISTURE			A2540 G			Analyst: LR
Moisture	37		0.050	% of sample	1	2/6/2013 03:25 PM

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

Client: HRL Compliance Solutions

Work Order: 1302160

Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: 46288

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-46288-46288				Units: mg/Kg		Analysis Date: 2/8/2013 09:11 AM		
Client ID:		Run ID: GC8_130208A				SeqNo: 2211777		Prep Date: 2/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	0.858	0	1.667	0	51.5	39-115	0			

LCS		Sample ID: DLCSS1-46288-46288				Units: mg/Kg		Analysis Date: 2/8/2013 09:36 AM		
Client ID:		Run ID: GC8_130208A				SeqNo: 2211778		Prep Date: 2/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	129.4	4.2	166.7	0	77.6	49-124	0			
Surr: 4-Terphenyl-d14	0.94	0	1.667	0	56.4	39-115	0			

MS		Sample ID: 1302178-01A MS				Units: mg/Kg		Analysis Date: 2/8/2013 10:02 AM		
Client ID:		Run ID: GC8_130208A				SeqNo: 2211779		Prep Date: 2/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	233.7	7.9	316.4	15	69.1	49-130	0			
Surr: 4-Terphenyl-d14	1.721	0	3.164	0	54.4	39-115	0			

MSD		Sample ID: 1302178-01A MSD				Units: mg/Kg		Analysis Date: 2/8/2013 10:27 AM		
Client ID:		Run ID: GC8_130208A				SeqNo: 2211780		Prep Date: 2/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	259.9	7.9	317.3	15	77.2	49-130	233.7	10.6	30	
Surr: 4-Terphenyl-d14	1.946	0	3.173	0	61.3	39-115	1.721	12.3	30	

The following samples were analyzed in this batch: | 1302160-01B | 1302160-02B |

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46296** Instrument ID **GC11** Method: **SW8015M**

MBLK	Sample ID: DBLKW1-46296-46296					Units: mg/L		Analysis Date: 2/7/2013 12:23 PM		
Client ID:	Run ID: GC11_130207A				SeqNo: 2211463		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) ND 0.10
Surr: 4-Terphenyl-d14 0.06747 0 0.1143 0 59 21-90 0

MBLK	Sample ID: DBLKW2-46296-46296					Units: mg/L		Analysis Date: 2/7/2013 03:22 PM		
Client ID:	Run ID: GC11_130207A				SeqNo: 2211468		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) ND 0.10
Surr: 4-Terphenyl-d14 0.05342 0 0.1143 0 46.7 21-90 0

LCS	Sample ID: DLCWS1-46296-46296					Units: mg/L		Analysis Date: 2/7/2013 12:59 PM		
Client ID:	Run ID: GC11_130207A				SeqNo: 2211464		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 5.095 0.10 11.43 0 44.6 44-116 0
Surr: 4-Terphenyl-d14 0.07294 0 0.1143 0 63.8 21-90 0

MS	Sample ID: 1302160-03B MS					Units: mg/L		Analysis Date: 2/7/2013 01:35 PM		
Client ID: Right of Way	Run ID: GC11_130207A				SeqNo: 2211465		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 26.76 0.35 40 2.293 61.2 44-116 0
Surr: 4-Terphenyl-d14 0.2138 0 0.4 0 53.5 21-90 0

MSD	Sample ID: 1302160-03B MSD					Units: mg/L		Analysis Date: 2/7/2013 02:10 PM		
Client ID: Right of Way	Run ID: GC11_130207A				SeqNo: 2211466		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 23.23 0.35 40 2.293 52.3 44-116 26.76 14.1 30
Surr: 4-Terphenyl-d14 0.2305 0 0.4 0 57.6 21-90 0.2138 7.49 30

The following samples were analyzed in this batch: 1302160-03B

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **R116030** Instrument ID **GC10** Method: **SW8015**

MBLK	Sample ID: GBLK1-130207-R116030					Units: µg/L		Analysis Date: 2/7/2013 12:15 PM		
Client ID:	Run ID: GC10_130207A				SeqNo: 2211319		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	ND	200								
Surr: Toluene-d8	118.3	0	100	0	118	70-130	0			

LCS	Sample ID: GLCS1-130207-R116030					Units: µg/L		Analysis Date: 2/7/2013 11:51 AM		
Client ID:	Run ID: GC10_130207A				SeqNo: 2211318		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	8830	200	10000	0	88.3	70-130	0			
Surr: Toluene-d8	122.5	0	100	0	122	70-130	0			

MS	Sample ID: 1302160-01A MS					Units: µg/Kg		Analysis Date: 2/7/2013 08:00 PM		
Client ID: Spill Source	Run ID: GC10_130207A				SeqNo: 2211335		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	468200	2,500	500000	7592	92.1	70-130	0			
Surr: Toluene-d8	5890	0	5000	0	118	50-150	0			

MSD	Sample ID: 1302160-01A MSD					Units: µg/Kg		Analysis Date: 2/7/2013 08:24 PM		
Client ID: Spill Source	Run ID: GC10_130207A				SeqNo: 2211336		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	460700	2,500	500000	7592	90.6	70-130	468200	1.62	30	
Surr: Toluene-d8	5948	0	5000	0	119	50-150	5890	0.971	30	

The following samples were analyzed in this batch:

1302160-01A	1302160-02A	1302160-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46297** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-46297-46297					Units: mg/Kg		Analysis Date: 2/7/2013 02:45 PM		
Client ID:	Run ID: HG1_130207A				SeqNo: 2210946		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001167 0.020 J

LCS	Sample ID: LCS-46297-46297					Units: mg/Kg		Analysis Date: 2/7/2013 02:47 PM		
Client ID:	Run ID: HG1_130207A				SeqNo: 2210947		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1772 0.020 0.1665 0 106 80-120 0

MS	Sample ID: 1302160-02BMS					Units: mg/Kg		Analysis Date: 2/7/2013 03:00 PM		
Client ID: Diversion Ditch	Run ID: HG1_130207A				SeqNo: 2210954		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1252 0.014 0.1199 0.009401 96.6 75-125 0

MSD	Sample ID: 1302160-02BMSD					Units: mg/Kg		Analysis Date: 2/7/2013 03:09 PM		
Client ID: Diversion Ditch	Run ID: HG1_130207A				SeqNo: 2210958		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1342 0.015 0.1226 0.009401 102 75-125 0.1252 6.96 35

The following samples were analyzed in this batch:

1302160-01B 1302160-02B

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46279** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

DUP		Sample ID: 1302160-01C DUP				Units: mg/L		Analysis Date: 2/8/2013 04:44 PM		
Client ID: Spill Source		Run ID: ICPMS2_130208A				SeqNo: 2212226		Prep Date:		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	132.1	5.0	0	0	0	-0 0	119.3	10.2		
Magnesium	31.96	2.0	0	0	0	-0 0	28.16	12.6		
Sodium	855.6	2.0	0	0	0	-0 0	810.7	5.39		

The following samples were analyzed in this batch:

1302160-01C	1302160-02C	1302160-04B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46291** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-46291-46291				Units: mg/Kg		Analysis Date: 2/7/2013 03:21 PM		
Client ID:		Run ID: ICPMS1_130207A				SeqNo: 2211215		Prep Date: 2/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	0.009635	0.25								J
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.1603	0.50								J

LCS		Sample ID: LCS-46291-46291				Units: mg/Kg		Analysis Date: 2/7/2013 03:27 PM		
Client ID:		Run ID: ICPMS1_130207A				SeqNo: 2211216		Prep Date: 2/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.424	0.25	5	0	88.5	80-120	0			
Barium	4.462	0.25	5	0	89.2	80-120	0			
Cadmium	4.748	0.10	5	0	95	80-120	0			
Chromium	4.525	0.25	5	0	90.5	80-120	0			
Copper	4.772	0.25	5	0	95.4	80-120	0			
Lead	4.588	0.25	5	0	91.8	80-120	0			
Nickel	4.482	0.25	5	0	89.6	80-120	0			
Selenium	4.344	0.25	5	0	86.9	80-120	0			
Silver	4.548	0.25	5	0	91	80-120	0			
Zinc	4.591	0.50	5	0	91.8	80-120	0			

MS		Sample ID: 1302080-13AMS				Units: mg/Kg		Analysis Date: 2/7/2013 04:17 PM		
Client ID:		Run ID: ICPMS1_130207A				SeqNo: 2211224		Prep Date: 2/7/2013		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.37	1.5	7.576	7.099	56.3	75-125	0			S
Barium	38.12	1.5	7.576	28.38	129	75-125	0			S
Cadmium	7.679	0.61	7.576	0.2899	97.5	75-125	0			
Chromium	18.18	1.5	7.576	9.455	115	75-125	0			
Copper	14.33	1.5	7.576	7.78	86.4	75-125	0			
Lead	41.21	1.5	7.576	34.99	82.1	75-125	0			O
Nickel	15.3	1.5	7.576	7.109	108	75-125	0			
Selenium	7.63	1.5	7.576	0.5946	92.9	75-125	0			
Silver	6.888	1.5	7.576	0.1127	89.4	75-125	0			
Zinc	53.88	3.0	7.576	44.57	123	75-125	0			O

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46291** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1302080-13AMSD				Units: mg/Kg		Analysis Date: 2/7/2013 04:23 PM		
Client ID:		Run ID: ICPMS1_130207A				SeqNo: 2211225		Prep Date: 2/7/2013		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.13	1.6	8.091	7.099	49.8	75-125	11.37	2.11	25	S
Barium	38.83	1.6	8.091	28.38	129	75-125	38.12	1.85	25	S
Cadmium	7.958	0.65	8.091	0.2899	94.8	75-125	7.679	3.57	25	
Chromium	17.92	1.6	8.091	9.455	105	75-125	18.18	1.44	25	
Copper	15.2	1.6	8.091	7.78	91.8	75-125	14.33	5.94	25	
Lead	39.32	1.6	8.091	34.99	53.5	75-125	41.21	4.7	25	SO
Nickel	15.34	1.6	8.091	7.109	102	75-125	15.3	0.28	25	
Selenium	7.725	1.6	8.091	0.5946	88.1	75-125	7.63	1.23	25	
Silver	7.11	1.6	8.091	0.1127	86.5	75-125	6.888	3.17	25	
Zinc	54.72	3.2	8.091	44.57	126	75-125	53.88	1.56	25	SO

The following samples were analyzed in this batch:

1302160-01B	1302160-02B	1302160-04A
1302160-05A	1302160-06A	

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46284** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-46284-46284				Units: µg/Kg		Analysis Date: 2/6/2013 12:05 PM		
Client ID:		Run ID: VMS7_130206A				SeqNo: 2210369		Prep Date: 2/6/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	36.5	60								J
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	36.5	90								J
Surr: 1,2-Dichloroethane-d4	917	0	1000	0	91.7	70-130	0			
Surr: 4-Bromofluorobenzene	1050	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	929	0	1000	0	92.9	70-130	0			
Surr: Toluene-d8	923	0	1000	0	92.3	70-130	0			

MBLK		Sample ID: MBLK-46284-46284				Units: µg/Kg		Analysis Date: 2/6/2013 02:36 PM		
Client ID:		Run ID: VMS9_130206A				SeqNo: 2210617		Prep Date: 2/6/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1023	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	907	0	1000	0	90.7	70-130	0			
Surr: Dibromofluoromethane	1003	0	1000	0	100	70-130	0			
Surr: Toluene-d8	937.5	0	1000	0	93.8	70-130	0			

MBLK		Sample ID: MBLK-46284-46284				Units: µg/Kg		Analysis Date: 2/7/2013 12:43 PM		
Client ID:		Run ID: VMS9_130207A				SeqNo: 2211276		Prep Date: 2/6/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1023	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	925.5	0	1000	0	92.6	70-130	0			
Surr: Dibromofluoromethane	986	0	1000	0	98.6	70-130	0			
Surr: Toluene-d8	919	0	1000	0	91.9	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46284** Instrument ID **VMS7** Method: **SW8260**

LCS		Sample ID: LCS-46284-46284				Units: µg/Kg		Analysis Date: 2/6/2013 10:50 AM		
Client ID:		Run ID: VMS7_130206A				SeqNo: 2210368		Prep Date: 2/6/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	972	30	1000	0	97.2	75-125	0			
Ethylbenzene	1011	30	1000	0	101	75-125	0			
m,p-Xylene	1988	60	2000	0	99.4	80-125	0			
o-Xylene	1027	30	1000	0	103	75-125	0			
Toluene	978	30	1000	0	97.8	70-125	0			
Xylenes, Total	3016	90	3000	0	101	75-125	0			
Surr: 1,2-Dichloroethane-d4	913.5	0	1000	0	91.4	70-130	0			
Surr: 4-Bromofluorobenzene	1031	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	967	0	1000	0	96.7	70-130	0			
Surr: Toluene-d8	953.5	0	1000	0	95.4	70-130	0			

LCS		Sample ID: LCS-46284-46284				Units: µg/Kg		Analysis Date: 2/6/2013 01:19 PM		
Client ID:		Run ID: VMS9_130206A				SeqNo: 2210615		Prep Date: 2/6/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	886	30	1000	0	88.6	75-125	0			
Ethylbenzene	934.5	30	1000	0	93.4	75-125	0			
m,p-Xylene	1939	60	2000	0	97	80-125	0			
o-Xylene	966	30	1000	0	96.6	75-125	0			
Toluene	899.5	30	1000	0	90	70-125	0			
Xylenes, Total	2905	90	3000	0	96.8	75-125	0			
Surr: 1,2-Dichloroethane-d4	1000	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	1024	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	1023	0	1000	0	102	70-130	0			
Surr: Toluene-d8	980.5	0	1000	0	98	70-130	0			

LCS		Sample ID: LCS-46284-46284				Units: µg/Kg		Analysis Date: 2/7/2013 11:26 AM		
Client ID:		Run ID: VMS9_130207A				SeqNo: 2211274		Prep Date: 2/6/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	845	30	1000	0	84.5	75-125	0			
Ethylbenzene	890.5	30	1000	0	89	75-125	0			
m,p-Xylene	1840	60	2000	0	92	80-125	0			
o-Xylene	911	30	1000	0	91.1	75-125	0			
Toluene	874	30	1000	0	87.4	70-125	0			
Xylenes, Total	2750	90	3000	0	91.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	967.5	0	1000	0	96.8	70-130	0			
Surr: 4-Bromofluorobenzene	1034	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	1003	0	1000	0	100	70-130	0			
Surr: Toluene-d8	999	0	1000	0	99.9	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46284** Instrument ID **VMS7** Method: **SW8260**

MS				Sample ID: 1302178-03B MS			Units: µg/Kg		Analysis Date: 2/6/2013 10:26 PM	
Client ID:		Run ID: VMS9_130206A			SeqNo: 2210624		Prep Date: 2/6/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	913.4	33	1089	0	83.8	75-125	0			
Ethylbenzene	896	33	1089	0	82.2	75-125	0			
m,p-Xylene	1920	65	2179	0	88.1	80-125	0			
o-Xylene	963.5	33	1089	0	88.4	75-125	0			
Toluene	868.7	33	1089	0	79.8	70-125	0			
Xylenes, Total	2883	98	3268	0	88.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	1117	0	1089	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1125	0	1089	0	103	70-130	0			
Surr: Dibromofluoromethane	1158	0	1089	0	106	70-130	0			
Surr: Toluene-d8	1022	0	1089	0	93.8	70-130	0			

MSD				Sample ID: 1302178-03B MSD			Units: µg/Kg		Analysis Date: 2/6/2013 10:52 PM	
Client ID:		Run ID: VMS9_130206A			SeqNo: 2210626		Prep Date: 2/6/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	885.6	33	1089	0	81.3	75-125	913.4	3.09	30	
Ethylbenzene	898.1	33	1089	0	82.4	75-125	896	0.243	30	
m,p-Xylene	1905	65	2179	0	87.4	80-125	1920	0.797	30	
o-Xylene	964.1	33	1089	0	88.5	75-125	963.5	0.0565	30	
Toluene	861.1	33	1089	0	79	70-125	868.7	0.882	30	
Xylenes, Total	2869	98	3268	0	87.8	75-125	2883	0.511	30	
Surr: 1,2-Dichloroethane-d4	1089	0	1089	0	100	70-130	1117	2.52	30	
Surr: 4-Bromofluorobenzene	1136	0	1089	0	104	70-130	1125	0.963	30	
Surr: Dibromofluoromethane	1124	0	1089	0	103	70-130	1158	3.01	30	
Surr: Toluene-d8	1059	0	1089	0	97.2	70-130	1022	3.51	30	

The following samples were analyzed in this batch:

1302160-01A 1302160-02A

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46279** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1302160-01C DUP				Units: mmhos/cm @25°F		Analysis Date: 2/8/2013 03:00 PM		
Client ID: Spill Source			Run ID: WETCHEM_130208G			SeqNo: 2211862		Prep Date:		DF: 1.5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturatio	3.57	0.0075	0	0	0		3.3	7.86	50	

The following samples were analyzed in this batch:

1302160-01C	1302160-02C	1302160-04B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **46300** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-46300-46300					Units: mg/Kg		Analysis Date: 2/8/2013 12:00 PM		
Client ID:	Run ID: WETCHEM_130208A				SeqNo: 2211658		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.49

LCS	Sample ID: LCS-46300-46300					Units: mg/Kg		Analysis Date: 2/8/2013 12:00 PM		
Client ID:	Run ID: WETCHEM_130208A				SeqNo: 2211659		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.602 0.49 1.969 0 81.4 75-110 0

MS	Sample ID: 1302160-01B MS					Units: mg/Kg		Analysis Date: 2/8/2013 12:00 PM		
Client ID: Spill Source	Run ID: WETCHEM_130208A				SeqNo: 2211661		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.51 2.033 0 0 60-130 0 S

MSD	Sample ID: 1302160-01B MSD					Units: mg/Kg		Analysis Date: 2/8/2013 12:00 PM		
Client ID: Spill Source	Run ID: WETCHEM_130208A				SeqNo: 2211662		Prep Date: 2/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50 2.016 0 0 60-130 0 0 30 S

The following samples were analyzed in this batch:

1302160-01B 1302160-02B

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **R115972** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: WLCSS1-130206-R115972				Units: s.u.		Analysis Date: 2/6/2013 10:00 AM		
Client ID:		Run ID: WETCHEM_130206N		SeqNo: 2210265		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.35	0	4.4	0	98.9	90-110	0			

DUP		Sample ID: 1302160-04A DUP				Units: s.u.		Analysis Date: 2/6/2013 10:00 AM		
Client ID: BKGD 1		Run ID: WETCHEM_130206N		SeqNo: 2210269		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.87	0	0	0	0	-0 0	6.88	0.145	20	

The following samples were analyzed in this batch:

1302160-01B	1302160-02B	1302160-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **R116038** Instrument ID **IC3** Method: **SW9056**

MBLK		Sample ID: MBLK-R116038				Units: mg/L		Analysis Date: 2/7/2013 09:40 AM		
Client ID:		Run ID: IC3_130207A				SeqNo: 2211547		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride ND 1.0

LCS		Sample ID: LCS-R116038				Units: mg/L		Analysis Date: 2/7/2013 09:20 AM		
Client ID:		Run ID: IC3_130207A				SeqNo: 2211545		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 9.461 1.0 10 0 94.6 88-107 0

MS		Sample ID: 1302168-03B MS				Units: mg/L		Analysis Date: 2/7/2013 03:09 PM		
Client ID:		Run ID: IC3_130207A				SeqNo: 2211566		Prep Date:		DF: 3
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 43.06 3.0 10 33.08 99.8 75-125 0

MSD		Sample ID: 1302168-03B MSD				Units: mg/L		Analysis Date: 2/7/2013 03:29 PM		
Client ID:		Run ID: IC3_130207A				SeqNo: 2211567		Prep Date:		DF: 3
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 43.27 3.0 10 33.08 102 75-125 43.06 0.491 20

The following samples were analyzed in this batch:

1302160-03C

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

Client: HRL Compliance Solutions
Work Order: 1302160
Project: Gunnison SPU 23-33 Prod. Water Spill 13-121

QC BATCH REPORT

Batch ID: **R116046** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R116046					Units: % of sample		Analysis Date: 2/6/2013 03:25 PM		
Client ID:	Run ID: MOIST_130206A				SeqNo: 2211710		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R116046					Units: % of sample		Analysis Date: 2/6/2013 03:25 PM		
Client ID:	Run ID: MOIST_130206A				SeqNo: 2211706		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1302075-01A DUP					Units: % of sample		Analysis Date: 2/6/2013 03:25 PM		
Client ID:	Run ID: MOIST_130206A				SeqNo: 2211684		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 19.47 0.050 0 0 0 -0 0 18.68 4.14 20

DUP	Sample ID: 1302160-06A DUP					Units: % of sample		Analysis Date: 2/6/2013 03:25 PM		
Client ID: BKGD 3	Run ID: MOIST_130206A				SeqNo: 2211701		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 37.49 0.050 0 0 0 -0 0 37.35 0.374 20

The following samples were analyzed in this batch:

1302160-01B	1302160-02B	1302160-04A
1302160-05A	1302160-06A	

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
#

1302160

PROJECT NAME		Gunnison Energy SPU 23-33 Production Water Spill		SAMPLER		Dan Pinegar		DATE		2/5/2013		PAGE		1 of 1	
PROJECT No.		HCSI JOB# 13-121		SITE ID		SPU 23-33		TURNAROUND		3 day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance Solutions, Inc.		EDD FORMAT				BTEX/GRO							
SEND REPORT TO		Mark Mumby		PURCHASE ORDER				DRO							
ADDRESS		2385 F1/2 Rd		BILL TO COMPANY		Same		SEMI VOLS (Table 910.1)							
CITY / STATE / ZIP		Grand Junction, CO. 81505		INVOICE ATTN TO				Metals (Table 910.1)							
PHONE		970-243-3271		ADDRESS				SAR, EC, Ph							
FAX		970-243-3280		CITY / STATE / ZIP				Arsenic							
E-MAIL		kramsay@hrlcomp.com, mmumby@hrlcomp.com		PHONE				BTEX							
				FAX				GRO							
				E-MAIL				DRO							
								CHLORIDES							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
1	Spill Source	S	2/4/2013	1:55 PM	3	8		X	X	X	X	X	X		
2	Diversion Ditch	S	2/4/2013	2:00 PM	3	8		X	X	X	X	X	X		
3	Right Of Way	W	2/4/2013	2:05 PM	9	1&8							X	X	X
4	BKGD 1	S	2/4/2013	3:20 PM	2	8					X	X			
5	BKGD 2	S	2/4/2013	3:50 PM	1	8					X				
6	BKGD 3	S	2/4/2013	4:10 PM	1	8					X				

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Dan Pinegar	2/5/2013	5:00 PM
RECEIVED BY	KEITH WIERENGA	2/6/13	1000
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

FedEx US Airbill
Express

8681 6428 9837

0200

Form
ID No.

FedEx Retrieval Copy

1 From
Date 2-5-13 Sender's FedEx Account Number
Sender's Name DAN P. NISAR Phone 970 2433271
Company HCSI
Address 2385 F 1/2 Rd
City GRAND JUNCTION State CO ZIP 81505

2 Your Internal Billing Reference

3 To
Recipient's Name RECEIVING Phone 616 399 6070
Company ACS GROUP
Recipient's Address 3352 128th Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City HOLLAND State MI ZIP 49474



8681 6428 9837

4a Express Package Service

- ☒ **1 FedEx Priority Overnight**
Next business morning. *FedEx shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **3 FedEx 2Day**
Second business day. *Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **5 FedEx Standard Overnight**
Next business afternoon. *Saturday Delivery NOT available.
☐ **6 FedEx First Overnight**
Earliest next business morning delivery to select locations. *Saturday Delivery NOT available.
☐ **20 FedEx Express Saver**
Third business day. *Saturday Delivery NOT available.

4b Express Freight Service

- ☐ **7 FedEx 1Day Freight**
Next business day. *Saturday Delivery NOT available.
☐ **31 FedEx 3Day Freight**
Third business day. *Saturday Delivery NOT available.

5 Packaging

- ☐ **6 FedEx Envelope*** ☐ **2**

6 Special Handling

- ☐ **3 SATURDAY Delivery**
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
Does this shipment contain:
☒ **No** ☐ **4 Yes**
One box must be checked. As per attach Shipper's Declaration.

Dangerous goods (including dry ice) cannot be sent by air.

7 Payment Bill to: ☐ **Sender** ☒ **2 Recipient**

1 ☐ **Sender** ☒ **2 Recipient**

1 ☐ **Sender** ☒ **2 Recipient**

1 ☐ **Sender** ☒ **2 Recipient**

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1 ☐ **Sender** ☒ **2 Recipient**

1 ☐ **Sender** ☒ **2 Recipient**



8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

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

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

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

520

fedex.com 1800.GoFedEx 1800.463.3339

fedex.com 1800.GoFedEx 1800.463.3339

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 06-Feb-13 10:00

Work Order: 1302160

Received by: KRW

Checklist completed by Keith Wurenga 06-Feb-13
eSignature Date

Reviewed by: Ann Preston 06-Feb-13
eSignature Date

Matrices: Soil & Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.4 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>2/6/2013 11:08:46 AM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: