



Legend

- Background Sample Location
- Existing Road
- Existing Pad Limit of Disturbance

GV 86-2
Arsenic Background Sample Location Map
T7S R95W, Section 2

November 22, 2010





02-Oct-2014

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

Re: **WPX GV 86-2 Cuttings 9.29.14**

Work Order: **14091443**

Dear Mark,

ALS Environmental received 1 sample on 30-Sep-2014 10:00 AM for the analyses presented in the following report.

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

Sample results are compliant with NELAP standard requirements and QC results achieved 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 23.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 86-2 Cuttings 9.29.14
Work Order: 14091443

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>
14091443-01	Cuttings	Soil		9/29/2014 14:20	9/30/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 86-2 Cuttings 9.29.14
Work Order: 14091443

Case Narrative

Batch 63360 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 63361 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 63434 MS/MSD data for GRO is not related to this project's samples. No data requires qualification.

<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 is present at an estimated concentration between the MDL and Report 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
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

ALS Group USA, Corp

Date: 02-Oct-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 86-2 Cuttings 9.29.14

Sample ID: Cuttings

Collection Date: 9/29/2014 02:20 PM

Work Order: 14091443

Lab ID: 14091443-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	36		SW8015M		Prep: SW3541 / 9/30/14	Analyst: IT
Surr: 4-Terphenyl-d14	71.0		4.8	mg/Kg-dry	1	9/30/2014 08:08 PM
			39-133	%REC	1	9/30/2014 08:08 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 10/1/14	Analyst: IT
Surr: Toluene-d8	103		2.9	mg/Kg-dry	1	10/2/2014 02:46 AM
			50-150	%REC	1	10/2/2014 02:46 AM
MERCURY BY CVAA						
Mercury	0.066		SW7471		Prep: SW7471 / 9/30/14	Analyst: LR
			0.014	mg/Kg-dry	1	10/1/2014 02:45 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/2/14	Analyst: JEC
Calcium	470		5.0	mg/L	10	10/2/2014 12:10 PM
Magnesium	34		2.0	mg/L	10	10/2/2014 12:10 PM
Sodium	2,200		2.0	mg/L	10	10/2/2014 12:10 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 10/1/14	Analyst: ML
Arsenic	4.6		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Barium	5,900		21	mg/Kg-dry	50	10/2/2014 04:16 PM
Cadmium	ND		0.83	mg/Kg-dry	5	10/2/2014 02:44 AM
Chromium	15		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Copper	17		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Lead	15		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Nickel	15		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Selenium	ND		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Silver	ND		2.1	mg/Kg-dry	5	10/2/2014 02:44 AM
Zinc	59		4.1	mg/Kg-dry	5	10/2/2014 02:44 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 10/2/14	Analyst: JEC
Sodium Adsorption Ratio	26		0.010	none	1	10/2/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 9/30/14	Analyst: RM
Acenaphthene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Anthracene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Chrysene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM

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

ALS Group USA, Corp

Date: 02-Oct-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 86-2 Cuttings 9.29.14

Sample ID: Cuttings

Collection Date: 9/29/2014 02:20 PM

Work Order: 14091443

Lab ID: 14091443-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Fluoranthene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Fluorene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Naphthalene	21		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Pyrene	ND		7.7	µg/Kg-dry	1	10/1/2014 06:49 AM
Surr: 2-Fluorobiphenyl	55.4		12-100	%REC	1	10/1/2014 06:49 AM
Surr: 4-Terphenyl-d14	105		25-137	%REC	1	10/1/2014 06:49 AM
Surr: Nitrobenzene-d5	48.9		37-107	%REC	1	10/1/2014 06:49 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/1/14		Analyst: AK
Benzene	38		35	µg/Kg-dry	1	10/1/2014 03:45 PM
Ethylbenzene	39		35	µg/Kg-dry	1	10/1/2014 03:45 PM
m,p-Xylene	300		71	µg/Kg-dry	1	10/1/2014 03:45 PM
o-Xylene	52		35	µg/Kg-dry	1	10/1/2014 03:45 PM
Toluene	210		35	µg/Kg-dry	1	10/1/2014 03:45 PM
Xylenes, Total	350		110	µg/Kg-dry	1	10/1/2014 03:45 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	10/1/2014 03:45 PM
Surr: 4-Bromofluorobenzene	96.9		70-130	%REC	1	10/1/2014 03:45 PM
Surr: Dibromofluoromethane	98.4		70-130	%REC	1	10/1/2014 03:45 PM
Surr: Toluene-d8	97.0		70-130	%REC	1	10/1/2014 03:45 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 10/2/14		Analyst: JB
Electrical Conductivity @ Saturation	14		0.050	mmhos/cm @25	10	10/2/2014 03:20 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	15		0.59	mg/Kg-dry	1	10/2/2014 01:10 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/30/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	10/1/2014 03:00 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	15		0.050	% of sample	1	10/1/2014 08:05 PM
PH			SW9045D	Prep: EXTRACT / 9/30/14		Analyst: STP
pH	7.9			s.u.	1	9/30/2014 04:30 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63361** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-63361-63361				Units: mg/Kg		Analysis Date: 9/30/2014 05:22 PM		
Client ID:		Run ID: GC8_140930A				SeqNo: 2960385		Prep Date: 9/30/2014		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	1.298	0	1.667	0	77.9	39-133	0			

LCS		Sample ID: DLCSS1-63361-63361				Units: mg/Kg		Analysis Date: 9/30/2014 05:50 PM		
Client ID:		Run ID: GC8_140930A				SeqNo: 2960386		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	169.5	4.2	166.7	0	102	61-109	0			
Surr: 4-Terphenyl-d14	1.002	0	1.667	0	60.1	39-133	0			

MS		Sample ID: 14091418-01A MS				Units: mg/Kg		Analysis Date: 9/30/2014 06:18 PM		
Client ID:		Run ID: GC8_140930A				SeqNo: 2960387		Prep Date: 9/30/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4404	41	326.5	3971	133	48-110	0			SO
Surr: 4-Terphenyl-d14	9.354	0	3.265	0	286	39-133	0			S

MSD		Sample ID: 14091418-01A MSD				Units: mg/Kg		Analysis Date: 9/30/2014 06:45 PM		
Client ID:		Run ID: GC8_140930A				SeqNo: 2960388		Prep Date: 9/30/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4226	42	332.8	3971	76.6	48-110	4404	4.13	30	O
Surr: 4-Terphenyl-d14	8.753	0	3.328	0	263	39-133	9.354	6.64	30	S

The following samples were analyzed in this batch: | 14091443-01B |

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63434** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-63434-63434				Units: µg/Kg		Analysis Date: 10/1/2014 08:48 PM		
Client ID:		Run ID: GC9_141001A				SeqNo: 2962136		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	<i>5010</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>100</i>	<i>50-150</i>	<i>0</i>			

LCS		Sample ID: LCS-63434-63434				Units: µg/Kg		Analysis Date: 10/1/2014 08:23 PM		
Client ID:		Run ID: GC9_141001A				SeqNo: 2962135		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	563400	2,500	500000	0	113	70-130	0			
<i>Surr: Toluene-d8</i>	<i>6625</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>132</i>	<i>50-150</i>	<i>0</i>			

MS		Sample ID: 14091451-01A MS				Units: µg/Kg		Analysis Date: 10/2/2014 05:24 AM		
Client ID:		Run ID: GC9_141001A				SeqNo: 2962152		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	753100	2,500	500000	35180	144	70-130	0			S
<i>Surr: Toluene-d8</i>	<i>5098</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>102</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 14091451-01A MSD				Units: µg/Kg		Analysis Date: 10/2/2014 05:49 AM		
Client ID:		Run ID: GC9_141001A				SeqNo: 2962153		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	749500	2,500	500000	35180	143	70-130	753100	0.483	30	S
<i>Surr: Toluene-d8</i>	<i>5201</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>104</i>	<i>50-150</i>	<i>5098</i>	<i>1.99</i>	<i>30</i>	

The following samples were analyzed in this batch:

14091443-01A

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63393** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-63393-63393				Units: mg/Kg		Analysis Date: 10/1/2014 01:29 PM		
Client ID:		Run ID: HG1_141001A				SeqNo: 2961102		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-63393-63393				Units: mg/Kg		Analysis Date: 10/1/2014 01:31 PM		
Client ID:		Run ID: HG1_141001A				SeqNo: 2961103		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1712 0.020 0.1665 0 103 80-120 0

MS		Sample ID: 14091359-01BMS				Units: mg/Kg		Analysis Date: 10/1/2014 01:38 PM		
Client ID:		Run ID: HG1_141001A				SeqNo: 2961106		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1212 0.012 0.1026 0.0192 99.5 75-125 0

MSD		Sample ID: 14091359-01BMSD				Units: mg/Kg		Analysis Date: 10/1/2014 01:40 PM		
Client ID:		Run ID: HG1_141001A				SeqNo: 2961107		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.124 0.012 0.1021 0.0192 103 75-125 0.1212 2.26 35

The following samples were analyzed in this batch:

14091443-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63419** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 14091443-01CDUP				Units: mg/L		Analysis Date: 10/2/2014 12:16 PM		
Client ID: Cuttings		Run ID: ICP2_141001B				SeqNo: 2963323		Prep Date: 10/2/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	525.1	5.0	0	0	0	0-0	0			
Magnesium	38.65	2.0	0	0	0	0-0	0			

DUP		Sample ID: 14091443-01CDUP				Units: mg/L		Analysis Date: 10/2/2014 01:10 PM		
Client ID: Cuttings		Run ID: ICP2_141001B				SeqNo: 2963346		Prep Date: 10/2/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	2614	20	0	0	0	0-0	0			

The following samples were analyzed in this batch:

14091443-01C

Batch ID: **63419** Instrument ID **SAR** Method: **USDA H60 Method**

DUP		Sample ID: 14091443-01CDUP				Units: none		Analysis Date: 10/2/2014		
Client ID: Cuttings		Run ID: SAR_141002A				SeqNo: 2963413		Prep Date: 10/2/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	29.67	0.010	0	0	0		26.45	11.5	50	

The following samples were analyzed in this batch:

14091443-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63421** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-63421-63421				Units: mg/Kg		Analysis Date: 10/2/2014 01:12 AM		
Client ID:		Run ID: ICPMS1_141001A				SeqNo: 2962678		Prep Date: 10/1/2014		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	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.1011	0.50								J

LCS		Sample ID: LCS-63421-63421				Units: mg/Kg		Analysis Date: 10/2/2014 01:18 AM		
Client ID:		Run ID: ICPMS1_141001A				SeqNo: 2962679		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.672	0.25	5	0	93.4	80-120	0			
Barium	4.909	0.25	5	0	98.2	80-120	0			
Cadmium	4.93	0.10	5	0	98.6	80-120	0			
Chromium	4.99	0.25	5	0	99.8	80-120	0			
Copper	4.708	0.25	5	0	94.2	80-120	0			
Lead	4.933	0.25	5	0	98.7	80-120	0			
Nickel	4.84	0.25	5	0	96.8	80-120	0			
Selenium	4.404	0.25	5	0	88.1	80-120	0			
Silver	4.832	0.25	5	0	96.6	80-120	0			
Zinc	4.784	0.50	5	0	95.7	80-120	0			

MS		Sample ID: 14091425-05AMS				Units: mg/Kg		Analysis Date: 10/2/2014 02:13 AM		
Client ID:		Run ID: ICPMS1_141001A				SeqNo: 2962700		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.851	0.35	7.092	0.6286	87.7	75-125	0			
Barium	13.96	0.35	7.092	5.595	118	75-125	0			
Cadmium	6.796	0.14	7.092	0.01265	95.6	75-125	0			
Chromium	9.504	0.35	7.092	2.413	100	75-125	0			
Copper	7.858	0.35	7.092	1.652	87.5	75-125	0			
Lead	7.716	0.35	7.092	0.9661	95.2	75-125	0			
Nickel	8.745	0.35	7.092	2.22	92	75-125	0			
Selenium	6.248	0.35	7.092	0.4134	82.3	75-125	0			
Silver	6.35	0.35	7.092	0.005269	89.5	75-125	0			
Zinc	10.81	0.71	7.092	4.252	92.5	75-125	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63421** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 14091425-05AMSD			Units:mg/Kg		Analysis Date: 10/2/2014 02:19 AM		
Client ID:			Run ID: ICPMS1_141001A			SeqNo:2962701		Prep Date: 10/1/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	6.786	0.35	7.032	0.6286	87.6	75-125	6.851	0.951	25		
Barium	12.77	0.35	7.032	5.595	102	75-125	13.96	8.93	25		
Cadmium	6.773	0.14	7.032	0.01265	96.1	75-125	6.796	0.337	25		
Chromium	9.606	0.35	7.032	2.413	102	75-125	9.504	1.07	25		
Copper	7.799	0.35	7.032	1.652	87.4	75-125	7.858	0.757	25		
Lead	7.722	0.35	7.032	0.9661	96.1	75-125	7.716	0.0675	25		
Nickel	8.565	0.35	7.032	2.22	90.2	75-125	8.745	2.07	25		
Selenium	6.297	0.35	7.032	0.4134	83.7	75-125	6.248	0.785	25		
Silver	6.366	0.35	7.032	0.005269	90.4	75-125	6.35	0.241	25		
Zinc	10.75	0.70	7.032	4.252	92.3	75-125	10.81	0.585	25		

The following samples were analyzed in this batch: 14091443-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63360** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-63360-63360				Units: µg/Kg		Analysis Date: 9/30/2014 05:44 PM		
Client ID:		Run ID: SVMS8_140930A				SeqNo: 2961460		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1196	0	1667	0	71.7	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1975	0	1667	0	118	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1095	0	1667	0	65.7	37-107	0			

LCS		Sample ID: SLCSS1-63360-63360				Units: µg/Kg		Analysis Date: 9/30/2014 06:04 PM		
Client ID:		Run ID: SVMS8_140930A				SeqNo: 2961462		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	527	6.7	666.7	0	79	45-110	0			
Acenaphthylene	549	6.7	666.7	0	82.3	45-105	0			
Anthracene	616	6.7	666.7	0	92.4	55-105	0			
Benzo(a)anthracene	623.3	6.7	666.7	0	93.5	50-110	0			
Benzo(a)pyrene	641.3	6.7	666.7	0	96.2	50-110	0			
Benzo(b)fluoranthene	688.3	6.7	666.7	0	103	45-115	0			
Benzo(g,h,i)perylene	564.7	6.7	666.7	0	84.7	40-125	0			
Benzo(k)fluoranthene	683	6.7	666.7	0	102	45-115	0			
Chrysene	657.7	6.7	666.7	0	98.6	55-110	0			
Dibenzo(a,h)anthracene	595	6.7	666.7	0	89.2	40-125	0			
Fluoranthene	556	6.7	666.7	0	83.4	55-115	0			
Fluorene	529.3	6.7	666.7	0	79.4	50-110	0			
Indeno(1,2,3-cd)pyrene	597.3	6.7	666.7	0	89.6	40-120	0			
Naphthalene	492	6.7	666.7	0	73.8	40-105	0			
Pyrene	781	6.7	666.7	0	117	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1354	0	1667	0	81.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2179	0	1667	0	131	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1182	0	1667	0	70.9	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63360** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: 14091373-05B MS			Units: µg/Kg		Analysis Date: 9/30/2014 10:29 PM	
Client ID:		Run ID: SVMS8_140930A			SeqNo: 2961465		Prep Date: 9/30/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1015	13	1290	0	78.7	45-110	0			
Acenaphthylene	1006	13	1290	0	78	45-105	0			
Anthracene	1175	13	1290	0	91	55-105	0			
Benzo(a)anthracene	1199	13	1290	177.2	79.2	50-110	0			
Benzo(a)pyrene	1248	13	1290	0	96.7	50-110	0			
Benzo(b)fluoranthene	1355	13	1290	0	105	45-115	0			
Benzo(g,h,i)perylene	1314	13	1290	0	102	40-125	0			
Benzo(k)fluoranthene	1284	13	1290	0	99.5	45-115	0			
Chrysene	1322	13	1290	0	102	55-110	0			
Dibenzo(a,h)anthracene	1226	13	1290	36.17	92.2	40-125	0			
Fluoranthene	1344	13	1290	0	104	55-115	0			
Fluorene	1045	13	1290	0	81	50-110	0			
Indeno(1,2,3-cd)pyrene	1353	13	1290	151.3	93.1	40-120	0			
Naphthalene	730.9	13	1290	0	56.6	40-105	0			
Pyrene	1780	13	1290	0	138	45-125	0			S
Surr: 2-Fluorobiphenyl	2212	0	3226	0	68.6	12-100	0			
Surr: 4-Terphenyl-d14	3877	0	3226	0	120	25-137	0			
Surr: Nitrobenzene-d5	1915	0	3226	0	59.4	37-107	0			

MSD				Sample ID: 14091373-05B MSD			Units: µg/Kg		Analysis Date: 9/30/2014 10:49 PM	
Client ID:		Run ID: SVMS8_140930A			SeqNo: 2961470		Prep Date: 9/30/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	932.5	13	1310	0	71.2	45-110	1015	8.51	30	
Acenaphthylene	929.2	13	1310	0	70.9	45-105	1006	7.97	30	
Anthracene	1170	13	1310	0	89.3	55-105	1175	0.446	30	
Benzo(a)anthracene	1246	13	1310	177.2	81.6	50-110	1199	3.89	30	
Benzo(a)pyrene	1297	13	1310	0	99	50-110	1248	3.79	30	
Benzo(b)fluoranthene	1402	13	1310	0	107	45-115	1355	3.38	30	
Benzo(g,h,i)perylene	1348	13	1310	0	103	40-125	1314	2.57	30	
Benzo(k)fluoranthene	1268	13	1310	0	96.8	45-115	1284	1.26	30	
Chrysene	1355	13	1310	0	103	55-110	1322	2.47	30	
Dibenzo(a,h)anthracene	1272	13	1310	36.17	94.3	40-125	1226	3.63	30	
Fluoranthene	1397	13	1310	0	107	55-115	1344	3.91	30	
Fluorene	984.2	13	1310	0	75.1	50-110	1045	6	30	
Indeno(1,2,3-cd)pyrene	1395	13	1310	151.3	95	40-120	1353	3.1	30	
Naphthalene	623.4	13	1310	0	47.6	40-105	730.9	15.9	30	
Pyrene	1896	13	1310	0	145	45-125	1780	6.34	30	S
Surr: 2-Fluorobiphenyl	2008	0	3274	0	61.3	12-100	2212	9.69	40	
Surr: 4-Terphenyl-d14	3782	0	3274	0	116	25-137	3877	2.46	40	
Surr: Nitrobenzene-d5	1638	0	3274	0	50	37-107	1915	15.6	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63360** Instrument ID **SVMS8** Method: **SW846 8270D**

The following samples were analyzed in this batch:

14091443-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63425** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-63425-63425				Units: µg/Kg		Analysis Date: 10/1/2014 03:49 PM		
Client ID:		Run ID: VMS5_141001A				SeqNo: 2962440		Prep Date: 10/1/2014		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								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1014</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>998.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1002</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1002</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-63425-63425				Units: µg/Kg		Analysis Date: 10/1/2014 09:48 AM		
Client ID:		Run ID: VMS5_141001A				SeqNo: 2962485		Prep Date: 10/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	983.5	30	1000	0	98.4	75-125	0			
Ethylbenzene	1013	30	1000	0	101	75-125	0			
m,p-Xylene	2026	60	2000	0	101	80-125	0			
o-Xylene	991	30	1000	0	99.1	75-125	0			
Toluene	984	30	1000	0	98.4	70-125	0			
Xylenes, Total	3018	90	3000	0	101	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>971</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.1</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1013</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

The following samples were analyzed in this batch:

14091443-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63398** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-R149282-63398					Units:s.u.			Analysis Date: 9/30/2014 04:30 PM				
Client ID:					Run ID: WETCHEM_140930X					SeqNo:2959893			Prep Date: 9/30/2014			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					3.94		0	4	0	98.5		90-110	0				

DUP				Sample ID: 14091385-01A DUP				Units: s.u.			Analysis Date: 9/30/2014 04:30 PM		
Client ID:				Run ID: WETCHEM_140930X				SeqNo: 2959895		Prep Date: 9/30/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		4.91	0	0	0	0	0-0	5.07	3.21	20			

The following samples were analyzed in this batch:

14091443-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63419** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14091443-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 10/2/2014 03:20 PM		
Client ID: Cuttings		Run ID: WETCHEM_141002K				SeqNo: 2963692		Prep Date: 10/2/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	15.47	0.050	0	0	0		13.54	13.3	50	

The following samples were analyzed in this batch:

14091443-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **63457** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-63457-63457				Units: mg/Kg		Analysis Date: 10/1/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_141001N				SeqNo: 2961699		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-63457-63457				Units: mg/Kg		Analysis Date: 10/1/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_141001N				SeqNo: 2961700		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.772 0.50 2 0 88.6 80-120 0

MS		Sample ID: 14091425-05A MS				Units: mg/Kg		Analysis Date: 10/1/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_141001N				SeqNo: 2961702		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.693 0.49 1.969 0.06275 82.8 75-125 0

MS		Sample ID: 14091425-05A MSI				Units: mg/Kg		Analysis Date: 10/1/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_141001N				SeqNo: 2961704		Prep Date: 9/30/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 937.3 50 1149 0.06275 81.5 75-125 0

MSD		Sample ID: 14091425-05A MSD				Units: mg/Kg		Analysis Date: 10/1/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_141001N				SeqNo: 2961703		Prep Date: 9/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.659 0.50 1.984 0.06275 80.4 75-125 1.693 2.04 20

The following samples were analyzed in this batch:

14091443-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091443
Project: WPX GV 86-2 Cuttings 9.29.14

QC BATCH REPORT

Batch ID: **R149436** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R149436				Units: % of sample		Analysis Date: 10/1/2014 08:05 PM		
Client ID:		Run ID: MOIST_141001D				SeqNo: 2963355		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-R149436				Units: % of sample		Analysis Date: 10/1/2014 08:05 PM		
Client ID:		Run ID: MOIST_141001D				SeqNo: 2963353		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: 14091387-01A DUP				Units: % of sample		Analysis Date: 10/1/2014 08:05 PM		
Client ID:		Run ID: MOIST_141001D				SeqNo: 2963296		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 19.43 0.050 0 0 0 0-0 18.58 4.47 20

DUP		Sample ID: 14091437-37B DUP				Units: % of sample		Analysis Date: 10/1/2014 08:05 PM		
Client ID:		Run ID: MOIST_141001D				SeqNo: 2963310		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 12.88 0.050 0 0 0 0-0 12.41 3.72 20

The following samples were analyzed in this batch:

14091443-01B

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
#

14091443

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

WPX GV 86-2 cuttings

SAMPLER

Reed Wold

SITE ID

GV 86-2

DATE

9/29/14

TURNAROUND

2 Day

PROJECT No.

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL Compliance

BILL TO COMPANY

WPX

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

Karolina Blaney

ADDRESS

2385 F 1/2 Rd

ADDRESS

1058 Co Rd 215

CITY/STATE/ZIP

Grand Junction, CO 81506

CITY/STATE/ZIP

Parachute CO 81635

PHONE

970-243-3271

PHONE

970-883-2295

FAX

970-243-3280

FAX

E-MAIL

mmumby@hrlcomp.com
rwold@hrlcomp.com

E-MAIL

Karolina.blaney@wpenergy.com

Lab ID

Field ID

Matrix

Sample
Date

Sample
Time

Bottles

Pres.

QC

01

cuttings

SO

9/29/14 2:20

3

8

2 x 2

*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)

X

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 9-6035

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Reed Wold

Reed Wold

9/29/14

3:00

RECEIVED BY

Wold

Wold

9-29-14

3:00

RELINQUISHED BY

Wold

Wold

9-29-14

3:00

RECEIVED BY

Wold

J. R. R. R.

9/20/14

10:00

RELINQUISHED BY

Wold

Wold

9/20/14

10:00

RECEIVED BY

Wold

Wold

9/20/14

10:00

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **30-Sep-14 10:00**

Work Order: **14091443**

Received by: **JR**

Checklist completed by <u>Ann Preston</u>	01-Oct-14	Reviewed by: <u>Ann Preston</u>	01-Oct-14
eSignature	Date	eSignature	Date

Matrices:

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"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4°Csoil</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
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:

From: (616) 399-6070
 Nick Martinez
 ALS Environmental
 127 E. 1st Street

Origin ID: RILA



Ship Date: 28SEP14
 ActWgt: 2.0 LB
 CAD: 2284840/NET3550

Dim: 12 X 9 X 6 IN

PARACHUTE, CO 81635

SHIP TO: (616) 399-6070
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 092914-1
 Invoice #
 PO # Parachute
 Dept #

1 of 3

TUE - 30 SEP 10:30A
 PRIORITY OVERNIGHT

TRK#: 7713 2111 5984

6281

MASTER

49424

MI-US

GRR

XX HLMA



SZG16CFBARAC3

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1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Report of Analysis

Client Sample ID:	GV86-2-B-1	Date Sampled:	11/19/10
Lab Sample ID:	T64030-1	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	81.2
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.6	0.71	0.12	mg/kg	1	11/30/10	12/01/10 TW	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA5290
(2) Prep QC Batch: MP13444

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GV86-2-B-2	Date Sampled:	11/19/10
Lab Sample ID:	T64030-2	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	80.7
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.9	0.74	0.13	mg/kg	1	11/30/10	12/01/10 TW	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA5290
(2) Prep QC Batch: MP13444

RL = Reporting Limit
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J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GV86-2-B-3	Date Sampled:	11/19/10
Lab Sample ID:	T64030-3	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	83.1
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.0	0.69	0.12	mg/kg	1	11/30/10	12/01/10 TW	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA5290
(2) Prep QC Batch: MP13444

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GV86-2-B-4	Date Sampled:	11/19/10
Lab Sample ID:	T64030-4	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	83.0
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.7	0.73	0.12	mg/kg	1	11/30/10	12/01/10 TW	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA5290
(2) Prep QC Batch: MP13444

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GV86-2-B-5	Date Sampled:	11/19/10
Lab Sample ID:	T64030-5	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	82.4
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.9	0.63	0.11	mg/kg	1	11/30/10	12/01/10 TW	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA5290
(2) Prep QC Batch: MP13444

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GV86-2-B-1	Date Sampled:	11/19/10
Lab Sample ID:	T64030-1	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	81.2
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
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(1) Instrument QC Batch: MA5290
(2) Prep QC Batch: MP13444

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
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Report of Analysis

Client Sample ID:	GV86-2-B-2	Date Sampled:	11/19/10
Lab Sample ID:	T64030-2	Date Received:	11/20/10
Matrix:	SO - Soil	Percent Solids:	80.7
Project:	GV 86-2 Backgrounds		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
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