

Legend

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

PA 14-6
Arsenic Background Sample Location Map
T7S R95W, Section 6

December 12, 2014





14-Nov-2014

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

Re: **WPX PA 14-6 Cuttings 11.11.14**

Work Order: **1411551**

Dear Mark,

ALS Environmental received 1 sample on 12-Nov-2014 09:30 AM for the analyses presented in the following report.

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

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 21.

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.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Cuttings 11.11.14
Work Order: 1411551

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>
1411551-01	PA 14-6 Cuttings	Soil		11/11/2014 12:45	11/12/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Cuttings 11.11.14
Work Order: 1411551

Case Narrative

Batch 64887 sample 1411551-01 reporting limit for Magnesium was elevated due to dilution for high concentrations of non-target analytes.

Batch 64942 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 6505 sample 1411551-01 MS/MSD recoveries for Hexavalent Chromium were below control limits. The corresponding result in the parent sample may be biased low for Hexavalent Chromium.

Batch R152459 duplicate data for pH 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: 14-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Cuttings 11.11.14
Sample ID: PA 14-6 Cuttings
Collection Date: 11/11/2014 12:45 PM

Work Order: 1411551
Lab ID: 1411551-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 11/12/14	Analyst: CW
DRO (C10-C28)	130		6.6	mg/Kg-dry	1	11/13/2014 12:02 PM
Surr: 4-Terphenyl-d14	75.2		39-133	%REC	1	11/13/2014 12:02 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 11/12/14	Analyst: CW
GRO (C6-C10)	21		3.3	mg/Kg-dry	1	11/13/2014 04:04 PM
Surr: Toluene-d8	115		50-150	%REC	1	11/13/2014 04:04 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 11/13/14	Analyst: LR
Mercury	0.078		0.019	mg/Kg-dry	1	11/13/2014 04:09 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 11/12/14	Analyst: JEC
Arsenic	4.9		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Barium	5,600		4.7	mg/Kg-dry	10	11/13/2014 05:30 PM
Cadmium	ND		0.37	mg/Kg-dry	1	11/13/2014 02:29 PM
Chromium	15		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Copper	29		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Lead	18		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Nickel	12		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Selenium	1.0		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Silver	ND		0.47	mg/Kg-dry	1	11/13/2014 02:29 PM
Zinc	68		0.93	mg/Kg-dry	1	11/13/2014 02:29 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 11/14/14	Analyst: JEC
Calcium	400		5.0	mg/L	10	11/14/2014 11:46 AM
Magnesium	ND		2.0	mg/L	10	11/14/2014 11:46 AM
Sodium	2,100		2.0	mg/L	10	11/14/2014 11:46 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 11/14/14	Analyst: JEC
Sodium Adsorption Ratio	29		0.010	none	1	11/14/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 11/12/14	Analyst: RM
Acenaphthene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Acenaphthylene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Anthracene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Benzo(a)anthracene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Benzo(a)pyrene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Benzo(b)fluoranthene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Benzo(g,h,i)perylene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Benzo(k)fluoranthene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Chrysene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM

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

ALS Group USA, Corp

Date: 14-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Cuttings 11.11.14
Sample ID: PA 14-6 Cuttings
Collection Date: 11/11/2014 12:45 PM

Work Order: 1411551
Lab ID: 1411551-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Fluoranthene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Fluorene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Indeno(1,2,3-cd)pyrene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Naphthalene	22		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Pyrene	ND		8.7	µg/Kg-dry	1	11/12/2014 05:16 PM
Surr: 2-Fluorobiphenyl	68.9		12-100	%REC	1	11/12/2014 05:16 PM
Surr: 4-Terphenyl-d14	95.5		25-137	%REC	1	11/12/2014 05:16 PM
Surr: Nitrobenzene-d5	58.0		37-107	%REC	1	11/12/2014 05:16 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 11/12/14		Analyst: BG
Benzene	410		39	µg/Kg-dry	1	11/12/2014 08:28 PM
Ethylbenzene	52		39	µg/Kg-dry	1	11/12/2014 08:28 PM
m,p-Xylene	630		79	µg/Kg-dry	1	11/12/2014 08:28 PM
o-Xylene	68		39	µg/Kg-dry	1	11/12/2014 08:28 PM
Toluene	1,100		39	µg/Kg-dry	1	11/12/2014 08:28 PM
Xylenes, Total	700		120	µg/Kg-dry	1	11/12/2014 08:28 PM
Surr: 1,2-Dichloroethane-d4	96.6		70-130	%REC	1	11/12/2014 08:28 PM
Surr: 4-Bromofluorobenzene	92.6		70-130	%REC	1	11/12/2014 08:28 PM
Surr: Dibromofluoromethane	95.4		70-130	%REC	1	11/12/2014 08:28 PM
Surr: Toluene-d8	98.0		70-130	%REC	1	11/12/2014 08:28 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 11/14/14		Analyst: JB
Electrical Conductivity @ Saturation	13		0.050	mmhos/cm @25	10	11/14/2014 01:50 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	15		0.66	mg/Kg-dry	1	11/14/2014 03:45 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 11/13/14		Analyst: MB
Chromium, Hexavalent	ND		0.65	mg/Kg-dry	1	11/14/2014 02:00 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	24		0.050	% of sample	1	11/12/2014 09:07 AM
PH			SW9045D	Prep: EXTRACT / 11/13/14		Analyst: STP
pH	11			s.u.	1	11/13/2014 03:00 PM

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

ALS Group USA, Corp

Date: 14-Nov-14

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64924** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-64924-64924				Units: mg/Kg		Analysis Date: 11/12/2014 06:32 PM		
Client ID:		Run ID: GC8_141112C				SeqNo: 3033463		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.291	0	2	0	64.5	39-133		0		

LCS		Sample ID: DLCSS1-64924-64924				Units: mg/Kg		Analysis Date: 11/12/2014 06:59 PM		
Client ID:		Run ID: GC8_141112C				SeqNo: 3033464		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	169.9	5.0	200	0	84.9	61-109		0		
Surr: 4-Terphenyl-d14	1.186	0	2	0	59.3	39-133		0		

MS		Sample ID: 1411499-05A MS				Units: mg/Kg		Analysis Date: 11/12/2014 07:27 PM		
Client ID:		Run ID: GC8_141112C				SeqNo: 3033465		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	395.1	8.3	331.5	164.3	69.6	48-110		0		
Surr: 4-Terphenyl-d14	2.014	0	3.315	0	60.8	39-133		0		

MSD		Sample ID: 1411499-05A MSD				Units: mg/Kg		Analysis Date: 11/12/2014 07:54 PM		
Client ID:		Run ID: GC8_141112C				SeqNo: 3033466		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	495.6	8.1	324	164.3	102	48-110	395.1	22.6	30	
Surr: 4-Terphenyl-d14	2.235	0	3.24	0	69	39-133	2.014	10.4	30	

The following samples were analyzed in this batch: 1411551-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1411551
 Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64952** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-64952-64952				Units: µg/Kg		Analysis Date: 11/13/2014 01:07 PM		
Client ID:		Run ID: GC9_141113A				SeqNo: 3033889		Prep Date: 11/12/2014		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>	6149	0	5000	0	123	50-150	0			

LCS		Sample ID: LCS-64952-64952				Units: µg/Kg		Analysis Date: 11/13/2014 12:42 PM		
Client ID:		Run ID: GC9_141113A				SeqNo: 3033882		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	586300	2,500	500000	0	117	70-130	0			
<i>Surr: Toluene-d8</i>	6936	0	5000	0	139	50-150	0			

MS		Sample ID: 1411551-01A MS				Units: µg/Kg		Analysis Date: 11/13/2014 06:36 PM		
Client ID: PA 14-6 Cuttings		Run ID: GC9_141113A				SeqNo: 3034975		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	628100	2,500	500000	15940	122	70-130	0			
<i>Surr: Toluene-d8</i>	5811	0	5000	0	116	50-150	0			

MSD		Sample ID: 1411551-01A MSD				Units: µg/Kg		Analysis Date: 11/13/2014 07:01 PM		
Client ID: PA 14-6 Cuttings		Run ID: GC9_141113A				SeqNo: 3034976		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	598200	2,500	500000	15940	116	70-130	628100	4.87	30	
<i>Surr: Toluene-d8</i>	5494	0	5000	0	110	50-150	5811	5.61	30	

The following samples were analyzed in this batch:

1411551-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64939** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-64939-64939				Units: mg/Kg		Analysis Date: 11/13/2014 03:57 PM		
Client ID:		Run ID: HG1_141113A				SeqNo: 3033830		Prep Date: 11/13/2014		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-64939-64939				Units: mg/Kg		Analysis Date: 11/13/2014 04:00 PM		
Client ID:		Run ID: HG1_141113A				SeqNo: 3033831		Prep Date: 11/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1701 0.020 0.1665 0 102 80-120 0

MS		Sample ID: 1411512-05CMS				Units: mg/Kg		Analysis Date: 11/13/2014 04:04 PM		
Client ID:		Run ID: HG1_141113A				SeqNo: 3033833		Prep Date: 11/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1282 0.013 0.1044 0.01672 107 75-125 0

MSD		Sample ID: 1411512-05CMSD				Units: mg/Kg		Analysis Date: 11/13/2014 04:06 PM		
Client ID:		Run ID: HG1_141113A				SeqNo: 3033834		Prep Date: 11/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1326 0.013 0.1063 0.01672 109 75-125 0.1282 3.37 35

The following samples were analyzed in this batch:

1411551-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64887** Instrument ID **ICP2** Method: **SW846 6010C**

DUP				Sample ID: 1411105-05ADUP				Units:mg/L			Analysis Date: 11/14/2014 11:41 AM			
Client ID:				Run ID: ICP2_141114A				SeqNo:3035340			Prep Date: 11/14/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Calcium	56.63	5.0	0	0	0	0-0	41.14	31.7						
Magnesium	73.13	2.0	0	0	0	0-0	51.54	34.6						
Sodium	7.679	2.0	0	0	0	0-0	5.054	41.2						

DUP		Sample ID: 1411105-05ADUP				Units:none		Analysis Date: 11/14/2014		
Client ID:		Run ID: SAR_141114A		SeqNo:3035439		Prep Date: 11/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.1589	0.010	0	0	0		0.1239	24.7	50	

The following samples were analyzed in this batch: | 1411551-01C |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64942**

Instrument ID **ICP2**

Method: **SW846 6010C**

Sample ID: MBLK-64942-64942					Units: mg/Kg		Analysis Date: 11/13/2014 12:48 PM				
Client ID:			Run ID: ICP2_141113A			SeqNo: 3033997		Prep Date: 11/12/2014		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	0.50									
Chromium	ND	0.25									
Copper	ND	0.50									
Lead	ND	0.25									
Nickel	ND	0.25									
Selenium	ND	0.50									
Silver	ND	0.25									
Zinc	0.1791	0.50								J	

LCS					Sample ID: LCS-64942-64942			Units:mg/Kg		Analysis Date: 11/13/2014 12:54 PM	
Client ID:			Run ID: ICP2_141113A			SeqNo:3033998		Prep Date: 11/12/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.715	0.25	5	0	94.3	80-120	0				
Barium	4.73	0.25	5	0	94.6	80-120	0				
Cadmium	4.621	0.50	5	0	92.4	80-120	0				
Chromium	4.912	0.25	5	0	98.2	80-120	0				
Copper	4.887	0.50	5	0	97.7	80-120	0				
Lead	4.876	0.25	5	0	97.5	80-120	0				
Nickel	4.86	0.25	5	0	97.2	80-120	0				
Selenium	4.791	0.50	5	0	95.8	80-120	0				
Silver	4.852	0.25	5	0	97	80-120	0				
Zinc	5.072	0.50	5	0	101	80-120	0				

LCS					Sample ID: LCS-64942-64942				Units: mg/Kg			Analysis Date: 11/13/2014 10:57 PM		
Client ID:			Run ID: ICP2_141113B				SeqNo: 3034309		Prep Date: 11/12/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	4.637	0.25	5	0	92.7	80-120	0							
Barium	4.691	0.25	5	0	93.8	80-120	0							
Cadmium	4.481	0.50	5	0	89.6	80-120	0							
Chromium	4.756	0.25	5	0	95.1	80-120	0							
Copper	4.77	0.50	5	0	95.4	80-120	0							
Lead	4.764	0.25	5	0	95.3	80-120	0							
Nickel	4.686	0.25	5	0	93.7	80-120	0							
Selenium	4.809	0.50	5	0	96.2	80-120	0							
Silver	4.688	0.25	5	0	93.8	80-120	0							
Zinc	4.982	0.50	5	0	99.6	80-120	0							

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64942** Instrument ID **ICP2** Method: **SW846 6010C**

MS				Sample ID: 1411550-03AMS			Units:mg/Kg		Analysis Date: 11/13/2014 02:07 PM		
Client ID:			Run ID: ICP2_141113A			SeqNo: 3034011		Prep Date: 11/12/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	20.48	0.36	7.153	10.99	133	75-125	0			S	
Barium	250	0.36	7.153	202	670	75-125	0			SO	
Cadmium	7.361	0.72	7.153	0.2744	99.1	75-125	0				
Chromium	19.19	0.36	7.153	10.2	126	75-125	0			S	
Copper	22.21	0.72	7.153	14.41	109	75-125	0				
Lead	22.08	0.36	7.153	13.97	113	75-125	0				
Nickel	21.08	0.36	7.153	13.26	109	75-125	0				
Selenium	7.864	0.72	7.153	0.1985	107	75-125	0				
Silver	8.402	0.36	7.153	0.00875	117	75-125	0				
Zinc	77.41	0.72	7.153	62.32	211	75-125	0			SO	

MSD				Sample ID: 1411550-03AMSD			Units:mg/Kg		Analysis Date: 11/13/2014 02:12 PM		
Client ID:			Run ID: ICP2_141113A			SeqNo: 3034012		Prep Date: 11/12/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	18.87	0.36	7.133	10.99	110	75-125	20.48	8.19	20		
Barium	265.1	0.36	7.133	202	885	75-125	250	5.89	20	SO	
Cadmium	7.202	0.71	7.133	0.2744	97.1	75-125	7.361	2.19	20		
Chromium	18.91	0.36	7.133	10.2	122	75-125	19.19	1.43	20		
Copper	21.99	0.71	7.133	14.41	106	75-125	22.21	0.997	20		
Lead	21.4	0.36	7.133	13.97	104	75-125	22.08	3.13	20		
Nickel	20.83	0.36	7.133	13.26	106	75-125	21.08	1.19	20		
Selenium	7.83	0.71	7.133	0.1985	107	75-125	7.864	0.43	20		
Silver	8.229	0.36	7.133	0.00875	115	75-125	8.402	2.08	20		
Zinc	77.51	0.71	7.133	62.32	213	75-125	77.41	0.123	20	SO	

The following samples were analyzed in this batch:

1411551-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64934** Instrument ID **VMS8** Method: **SW8260B**

Sample ID: MBLK-64934-64934				Units: µg/Kg			Analysis Date: 11/12/2014 02:17 PM			
Client ID:		Run ID: VMS8_141112A			SeqNo: 3032904		Prep Date: 11/12/2014		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>942.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>94.2</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>942</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>94.2</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>942</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>94.2</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>981</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.1</i>	<i>70-130</i>	<i>0</i>			

LCS				Sample ID: LCS-64934-64934			Units: µg/Kg		Analysis Date: 11/12/2014 11:50 AM		
Client ID:		Run ID: VMS8_141112A			SeqNo: 3032903		Prep Date: 11/12/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	994	30	1000	0	99.4	75-125	0				
Ethylbenzene	1008	30	1000	0	101	75-125	0				
m,p-Xylene	1978	60	2000	0	98.9	80-125	0				
o-Xylene	963.5	30	1000	0	96.4	75-125	0				
Toluene	1006	30	1000	0	101	70-125	0				
Xylenes, Total	2942	90	3000	0	98	75-125	0				
Surr: 1,2-Dichloroethane-d4	956	0	1000	0	95.6	70-130	0				
Surr: 4-Bromofluorobenzene	960	0	1000	0	96	70-130	0				
Surr: Dibromofluoromethane	980.5	0	1000	0	98	70-130	0				
Surr: Toluene-d8	966	0	1000	0	96.6	70-130	0				

MS					Sample ID: 1411532-03A MS			Units: µg/Kg		Analysis Date: 11/13/2014 09:55 AM	
Client ID:			Run ID: VMS8_141112B			SeqNo:3033090		Prep Date: 11/12/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	957	30	1000	0	95.7	75-125	0				
Ethylbenzene	978	30	1000	0	97.8	75-125	0				
m,p-Xylene	1944	60	2000	0	97.2	80-125	0				
o-Xylene	950.5	30	1000	0	95	75-125	0				
Toluene	970	30	1000	0	97	70-125	0				
Xylenes, Total	2894	90	3000	0	96.5	75-125	0				
Surr: 1,2-Dichloroethane-d4	961	0	1000	0	96.1	70-130	0				
Surr: 4-Bromofluorobenzene	955	0	1000	0	95.5	70-130	0				
Surr: Dibromofluoromethane	945.5	0	1000	0	94.6	70-130	0				
Surr: Toluene-d8	951	0	1000	0	95.1	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64934** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 1411532-03A MSD				Units: µg/Kg			Analysis Date: 11/13/2014 10:19 AM		
Client ID:			Run ID: VMS8_141112B			SeqNo: 3033093		Prep Date: 11/12/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	975	30	1000	0	97.5	75-125	957	1.86	30				
Ethylbenzene	994.5	30	1000	0	99.4	75-125	978	1.67	30				
m,p-Xylene	1988	60	2000	0	99.4	80-125	1944	2.24	30				
o-Xylene	988.5	30	1000	0	98.8	75-125	950.5	3.92	30				
Toluene	996.5	30	1000	0	99.6	70-125	970	2.7	30				
Xylenes, Total	2976	90	3000	0	99.2	75-125	2894	2.79	30				
Surr: 1,2-Dichloroethane-d4	960.5	0	1000	0	96	70-130	961	0.052	30				
Surr: 4-Bromofluorobenzene	981	0	1000	0	98.1	70-130	955	2.69	30				
Surr: Dibromofluoromethane	954.5	0	1000	0	95.4	70-130	945.5	0.947	30				
Surr: Toluene-d8	971.5	0	1000	0	97.2	70-130	951	2.13	30				

The following samples were analyzed in this batch: 1411551-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64887** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1411105-05A DUP				Units: mmhos/cm @25°C		Analysis Date: 11/14/2014 01:50 PM		
Client ID:		Run ID: WETCHEM_141114L				SeqNo: 3035809		Prep Date: 11/14/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.937	0.050	0	0	0		0.68	31.8	50	

The following samples were analyzed in this batch:

1411551-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **64993** Instrument ID **WETCHEM** Method: **SW9045D**

DUP				Sample ID: 1411467-01A DUP				Units: s.u.			Analysis Date: 11/13/2014 03:00 PM			
Client ID:				Run ID: WETCHEM_141113I				SeqNo: 3033494			Prep Date: 11/13/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	6.05	0	0	0	0	0-0	5.98	1.16	20					

The following samples were analyzed in this batch:

1411551-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1411551
 Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **65051** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-65051-65051				Units: mg/Kg		Analysis Date: 11/14/2014 02:00 PM		
Client ID:		Run ID: WETCHEM_141114H				SeqNo: 3035513		Prep Date: 11/13/2014		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-65051-65051				Units: mg/Kg		Analysis Date: 11/14/2014 02:00 PM		
Client ID:		Run ID: WETCHEM_141114H				SeqNo: 3035512		Prep Date: 11/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.672 0.50 2 0 83.6 80-120 0

MS		Sample ID: 1411551-01B MS				Units: mg/Kg		Analysis Date: 11/14/2014 02:00 PM		
Client ID: PA 14-6 Cuttings		Run ID: WETCHEM_141114H				SeqNo: 3035507		Prep Date: 11/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.1614 0.49 1.969 0.1155 2.33 75-125 0 JS

MS		Sample ID: 1411551-01B MSI				Units: mg/Kg		Analysis Date: 11/14/2014 02:00 PM		
Client ID: PA 14-6 Cuttings		Run ID: WETCHEM_141114H				SeqNo: 3035509		Prep Date: 11/13/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 467.6 49 655 0.1155 71.4 75-125 0 S

MSD		Sample ID: 1411551-01B MSD				Units: mg/Kg		Analysis Date: 11/14/2014 02:00 PM		
Client ID: PA 14-6 Cuttings		Run ID: WETCHEM_141114H				SeqNo: 3035508		Prep Date: 11/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.164 0.50 2 0.1155 2.42 75-125 0.1614 0 20 JS

The following samples were analyzed in this batch:

1411551-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411551
Project: WPX PA 14-6 Cuttings 11.11.14

QC BATCH REPORT

Batch ID: **R152459** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS-R152459				Units: % of sample			Analysis Date: 11/12/2014 09:07 AM			
Client ID:				Run ID: MOIST_141112D				SeqNo: 3033977			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-R152459				Units: % of sample		Analysis Date: 11/12/2014 09:07 AM		
Client ID:		Run ID: MOIST_141112D			SeqNo: 3033976		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: 1411433-02A DUP				Units: % of sample			Analysis Date: 11/12/2014 09:07 AM												
Client ID:				Run ID: MOIST_141112D				SeqNo: 3033958			Prep Date:		DF: 1										
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 38.41 0.050 0 0 0 0-0 38.99 1.5 20

DUP				Sample ID: 1411569-01B DUP				Units: % of sample			Analysis Date: 11/12/2014 09:07 AM			
Client ID:				Run ID: MOIST_141112D				SeqNo: 3033967			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 1.31 0.050 0 0 0 0-0 1.38 5.2 20 H

The following samples were analyzed in this batch:

1411551-01B

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



ALS Environmental

3352 126th Avenue Holland, MI 49424
PH: (616) 399-6070

Chain-of-Custody

WORKORDER #

1411551

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME	PROJECT NO.	COMPANY NAME	SEND REPORT TO	ADDRESS	CITY/STATE/ZIP	PHONE	FAX	E-MAIL	SAMPLER	SITE ID	EDD FORMAT	PURCHASE ORDER	BILL TO COMPANY	INVOICE ATTN TO	ADDRESS	CITY/STATE/ZIP	PHONE	FAX	E-MAIL	DATE	TURNAROUND
PA 14-6 Cuttings		HRL Compliance Solutions, Inc.	Mark Mumby	2385 F 1/2 Road	Grand Junction, CO 81505	970-243-3271	970-243-3280	mmumby@hrlcomp.com; mlobato@hrlcomp.com	Mike Lobato	PA 14-6			WPX Energy	Karolina Blaney	1058 Co. Rd. 215	Parachute, CO 81635	970-683-2295		Karolina.blaney@wpxenergy.com	11/11/14	24 Hour
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC														
1	PA 14-6 Cuttings	Soil	11/11/14	1245	3	8	X														

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

For metals or anions, please detail analytes below.

Comments:

Complete
COGCC Table 910-1

3.4' L

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 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	Mike Lobato	11/11/14	1309
RECEIVED BY	<i>[Signature]</i>	W.M.	11-11-14	1305
RELINQUISHED BY	<i>[Signature]</i>	W.M.	11-11-14	1730
RECEIVED BY	<i>[Signature]</i>	Diane E. Shu	11/12/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **12-Nov-14 09:30**

Work Order: **1411551**

Received by: **DS**

Checklist completed by <u>Diane Shaw</u>	12-Nov-14	Reviewed by: <u>Ann Preston</u>	12-Nov-14
eSignature	Date	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"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>11/12/2014 10:57:48 AM</u>		
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) 399-8070
 Nick Martinez
 ALS Environmental
 127 E. 1st Street
 PARACHUTE, CO 81635

Origin ID: RLA



Ship Date: 11NOV14
 ActWgt: 50.0 LB
 CAD: 2284840/NET3550

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 111114-1
 Invoice #
 PO # Parachute
 Dept #

SHIP TO: (616) 399-8970
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

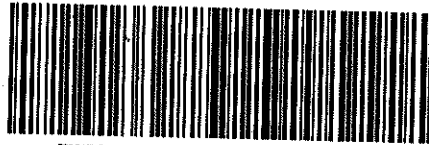
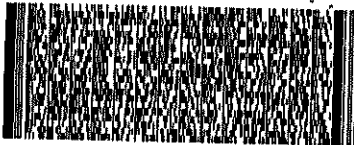
HOLLAND, MI 49424

WED - 12 NOV 10:30A
 PRIORITY OVERNIGHT

TRK# 7718 2443 0027
 0281

XX HLMA

49424
 MI-US
 GRR



62201618CANC3

After printing this label:

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ALS Parachute Custody Seal

DATE 11-11-14 Time 1730Name N. Martinez



08-Dec-2014

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

Re: **WPX PA 14-6 Pad Composites 11.26.14**

Work Order: **1412179**

Dear Mark,

ALS Environmental received 2 samples on 04-Dec-2014 09:30 AM for the analyses presented in the following report.

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

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 11.

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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Pad Composites 11.26.14
Work Order: 1412179

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>
1412179-01	Pit Composite	Soil		11/26/2014 11:55	12/4/2014 09:30	<input type="checkbox"/>
1412179-02	Pad Surface Composite	Soil		11/26/2014 11:50	12/4/2014 09:30	<input type="checkbox"/>

ALS Group USA, Corp

Date: 08-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Pad Composites 11.26.14
Work Order: 1412179

Case Narrative

Batch R153733 samples 1412179-01 and 1412179-02 holding times for % Moisture expired before receipt by laboratory.

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Pad Composites 11.26.14
WorkOrder: 1412179

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 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

ALS Group USA, Corp

Date: 08-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Pad Composites 11.26.14
Sample ID: Pit Composite
Collection Date: 11/26/2014 11:55 AM

Work Order: 1412179
Lab ID: 1412179-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 12/4/14	Analyst: JDW
Benzene	67		38	µg/Kg-dry	1	12/4/2014 11:20 PM
Surr: 1,2-Dichloroethane-d4	97.4		70-130	%REC	1	12/4/2014 11:20 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	12/4/2014 11:20 PM
Surr: Dibromofluoromethane	92.3		70-130	%REC	1	12/4/2014 11:20 PM
Surr: Toluene-d8	93.4		70-130	%REC	1	12/4/2014 11:20 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	22	H	0.050	% of sample	1	12/4/2014 02:30 PM

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

ALS Group USA, Corp

Date: 08-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Pad Composites 11.26.14
Sample ID: Pad Surface Composite
Collection Date: 11/26/2014 11:50 AM

Work Order: 1412179
Lab ID: 1412179-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 12/4/14	Analyst: JDW
Benzene	53		36	µg/Kg-dry	1	12/4/2014 11:46 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	12/4/2014 11:46 PM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	12/4/2014 11:46 PM
Surr: Dibromofluoromethane	93.5		70-130	%REC	1	12/4/2014 11:46 PM
Surr: Toluene-d8	95.8		70-130	%REC	1	12/4/2014 11:46 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	17	H	0.050	% of sample	1	12/4/2014 02:30 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412179
Project: WPX PA 14-6 Pad Composites 11.26.14

QC BATCH REPORT

Batch ID: **65637** Instrument ID **VMS8** Method: **SW8260B**

MBLK Sample ID: MBLK-65637-65637				Units: µg/Kg			Analysis Date: 12/4/2014 02:50 PM			
Client ID:		Run ID: VMS8_141204A		SeqNo: 3062618		Prep Date: 12/4/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Surr: 1,2-Dichloroethane-d4	998	0	1000	0	99.8	70-130	0			
Surr: 4-Bromofluorobenzene	1006	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	932	0	1000	0	93.2	70-130	0			
Surr: Toluene-d8	951	0	1000	0	95.1	70-130	0			

LCS Sample ID: LCS-65637-65637				Units: µg/Kg			Analysis Date: 12/4/2014 10:41 AM			
Client ID:		Run ID: VMS8_141204A		SeqNo: 3062705		Prep Date: 12/4/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1082	30	1000	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	1004	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	991	0	1000	0	99.1	70-130	0			
Surr: Dibromofluoromethane	988.5	0	1000	0	98.8	70-130	0			
Surr: Toluene-d8	1007	0	1000	0	101	70-130	0			

MS Sample ID: 1412196-01A MS				Units: µg/Kg			Analysis Date: 12/6/2014 04:59 AM			
Client ID:		Run ID: VMS6_141205A		SeqNo: 3064166		Prep Date: 12/4/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	967.5	30	1000	0	96.8	75-125	0			
Surr: 1,2-Dichloroethane-d4	1010	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1021	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	984.5	0	1000	0	98.4	70-130	0			
Surr: Toluene-d8	966.5	0	1000	0	96.6	70-130	0			

MSD Sample ID: 1412196-01A MSD				Units: µg/Kg			Analysis Date: 12/6/2014 05:25 AM			
Client ID:		Run ID: VMS6_141205A		SeqNo: 3064167		Prep Date: 12/4/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	932.5	30	1000	0	93.2	75-125	967.5	3.68	30	
Surr: 1,2-Dichloroethane-d4	976	0	1000	0	97.6	70-130	1010	3.47	30	
Surr: 4-Bromofluorobenzene	998.5	0	1000	0	99.8	70-130	1021	2.23	30	
Surr: Dibromofluoromethane	1020	0	1000	0	102	70-130	984.5	3.54	30	
Surr: Toluene-d8	1012	0	1000	0	101	70-130	966.5	4.6	30	

The following samples were analyzed in this batch: 1412179-01A 1412179-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412179
Project: WPX PA 14-6 Pad Composites 11.26.14

QC BATCH REPORT

Batch ID: **R153733** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R153733				Units: % of sample		Analysis Date: 12/4/2014 02:30 PM		
Client ID:		Run ID: MOIST_141204B				SeqNo: 3063873		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-R153733				Units: % of sample		Analysis Date: 12/4/2014 02:30 PM		
Client ID:		Run ID: MOIST_141204B				SeqNo: 3063872		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: 1412122-01B DUP				Units: % of sample		Analysis Date: 12/4/2014 02:30 PM		
Client ID:		Run ID: MOIST_141204B				SeqNo: 3063854		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 15.56 0.050 0 0 0 0-0 15.54 0.129 20

DUP		Sample ID: 1412177-01B DUP				Units: % of sample		Analysis Date: 12/4/2014 02:30 PM		
Client ID:		Run ID: MOIST_141204B				SeqNo: 3063868		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.17 0.050 0 0 0 0-0 14.27 0.703 20

The following samples were analyzed in this batch:

1412179-01A 1412179-02A

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



1412179

10f1

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	Matt Fought	12/2/14	10:00
RECEIVED BY	<i>[Signature]</i>	Diane F. Shaw	12/4/14	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **04-Dec-14 09:30**

Work Order: **1412179**

Received by: **DS**

Checklist completed by <u>Diane Shaw</u>	04-Dec-14	Reviewed by: <u>Ann Preston</u>	04-Dec-14
eSignature	Date	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"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/4/2014 10:52:52 AM</u>		
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:

deX. NEW Package
Express US Airbill

FedEx
Tracking
Number

8059 2388 8374

0200

12/2/2014

to AIRL COMPASS

Phone 770 243-3271

party AIRL

ress 2385 F 1/2 RD.

Dept./Floor/Box/Room

GRAND Junction State MI ZIP 481505

or Internal Billing Reference

ipoint's no ALS RECEIVING

Phone 313 399-1070

party ALS GROUP

ress 3352 128th AVE.

Dept./Floor/Box/Room

Address
Use this line for the HOLD location address or for confirmation of your shipping address.

Holland State MI ZIP 49424



8059 2388 8374

4 Express Package Service

NOTE: Service order has changed. Please hold.

Next Business Day

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

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

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

5 Packaging *Declared value limit \$500

☐ **FedEx Envelope** ☐ **FedEx**

Special Handling and Delivery

☐ **SATURDAY Delivery**
NOT available for FedEx Standard Overnight, FedEx

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

Does this shipment contain dangerous goods?
See back must be checked.

☒ **No** ☐ **Yes**
If you answered "Yes" to this question, see back must be checked.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Ship Box.

☐ **Cargo Aircraft Only**

7 Payment BSN is:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. ☐

☐ **Sender**
Acct. No. in Section 1 will bill.

☒ **Recipient**

☐ **Third Party**

☐ **Credit Card**

☐ **Cash/Check**

Total Packages Total Weight

Credit Card Auth.

Your liability is limited to USD\$500 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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(BTB) 399 - 0070
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Express



J14271403/0011V

WED - 03 DEC AA
STANDARD OVERNIGHT

TRK# 8059 2388 8374
0200

XX HLMA

49424
MI-US GRR



Align Open End of FedEx Pouch Here



13-Nov-2014

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

Re: **WPX PA 14-6 Backgrounds 11.11.14**

Work Order: **1411550**

Dear Mark,

ALS Environmental received 5 samples on 12-Nov-2014 09:30 AM for the analyses presented in the following report.

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

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 14.

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 small blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Work Order: 1411550

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>
1411550-01	PA 14-6-BK-1	Soil		11/11/2014 12:28	11/12/2014 09:30	<input type="checkbox"/>
1411550-02	PA 14-6-BK-2	Soil		11/11/2014 12:32	11/12/2014 09:30	<input type="checkbox"/>
1411550-03	PA 14-6-BK-3	Soil		11/11/2014 12:36	11/12/2014 09:30	<input type="checkbox"/>
1411550-04	PA 14-6-BK-4	Soil		11/11/2014 12:40	11/12/2014 09:30	<input type="checkbox"/>
1411550-05	PA 14-6-BK-5	Soil		11/11/2014 12:42	11/12/2014 09:30	<input type="checkbox"/>

ALS Group USA, Corp

Date: 13-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Work Order: 1411550

Case Narrative

Batch 64942 sample 1411550-03 MS recovery for Arsenic was above control limits. However, the MSD recovery and the RPD between the MS and MSD were in control. No qualification is required for Arsenic.

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
WorkOrder: 1411550

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 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
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 13-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Sample ID: PA 14-6-BK-1
Collection Date: 11/11/2014 12:28 PM

Work Order: 1411550
Lab ID: 1411550-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 11/12/14	Analyst: JEC
Arsenic	13		0.37	mg/Kg-dry	1	11/13/2014 01:33 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	8.8		0.050	% of sample	1	11/12/2014 08:00 PM

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

ALS Group USA, Corp

Date: 13-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Sample ID: PA 14-6-BK-2
Collection Date: 11/11/2014 12:32 PM

Work Order: 1411550
Lab ID: 1411550-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	12		SW846 6010C 0.35	mg/Kg-dry	1	Prep: SW3050B / 11/12/14 Analyst: JEC 11/13/2014 01:39 PM
MOISTURE						
Moisture	8.6		A2540 G 0.050	% of sample	1	Analyst: EVB 11/12/2014 08:00 PM

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

ALS Group USA, Corp

Date: 13-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Sample ID: PA 14-6-BK-3
Collection Date: 11/11/2014 12:36 PM

Work Order: 1411550
Lab ID: 1411550-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 11/12/14	Analyst: JEC
Arsenic	12		0.40	mg/Kg-dry	1	11/13/2014 02:01 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	9.3		0.050	% of sample	1	11/12/2014 08:00 PM

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

ALS Group USA, Corp

Date: 13-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Sample ID: PA 14-6-BK-4
Collection Date: 11/11/2014 12:40 PM

Work Order: 1411550
Lab ID: 1411550-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 11/12/14	Analyst: JEC
Arsenic	10		0.44	mg/Kg-dry	1	11/13/2014 02:18 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	9.6		0.050	% of sample	1	11/12/2014 08:00 PM

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

ALS Group USA, Corp

Date: 13-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX PA 14-6 Backgrounds 11.11.14
Sample ID: PA 14-6-BK-5
Collection Date: 11/11/2014 12:42 PM

Work Order: 1411550
Lab ID: 1411550-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 11/12/14	Analyst: JEC
Arsenic	10		0.42	mg/Kg-dry	1	11/13/2014 02:23 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	11		0.050	% of sample	1	11/12/2014 08:00 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1411550
Project: WPX PA 14-6 Backgrounds 11.11.14

QC BATCH REPORT

Batch ID: **64942** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-64942-64942				Units: mg/Kg		Analysis Date: 11/13/2014 12:48 PM		
Client ID:		Run ID: ICP2_141113A				SeqNo: 3033997		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS		Sample ID: LCS-64942-64942				Units: mg/Kg		Analysis Date: 11/13/2014 12:54 PM		
Client ID:		Run ID: ICP2_141113A				SeqNo: 3033998		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.715	0.25	5	0	94.3	80-120	0			

MS		Sample ID: 1411550-03AMS				Units: mg/Kg		Analysis Date: 11/13/2014 02:07 PM		
Client ID: PA 14-6-BK-3		Run ID: ICP2_141113A				SeqNo: 3034011		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	20.48	0.36	7.153	10.99	133	75-125	0			S

MSD		Sample ID: 1411550-03AMSD				Units: mg/Kg		Analysis Date: 11/13/2014 02:12 PM		
Client ID: PA 14-6-BK-3		Run ID: ICP2_141113A				SeqNo: 3034012		Prep Date: 11/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.87	0.36	7.133	10.99	110	75-125	20.48	8.19	20	

The following samples were analyzed in this batch:

1411550-01A	1411550-02A	1411550-03A
1411550-04A	1411550-05A	

Client: HRL Compliance Solutions, Inc
Work Order: 1411550
Project: WPX PA 14-6 Backgrounds 11.11.14

QC BATCH REPORT

Batch ID: **R152461** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R152461				Units: % of sample		Analysis Date: 11/12/2014 08:00 PM		
Client ID:		Run ID: MOIST_141112E				SeqNo: 3034075		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-R152461				Units: % of sample		Analysis Date: 11/12/2014 08:00 PM		
Client ID:		Run ID: MOIST_141112E				SeqNo: 3034074		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: 1411432-08A DUP				Units: % of sample		Analysis Date: 11/12/2014 08:00 PM		
Client ID:		Run ID: MOIST_141112E				SeqNo: 3034035		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 56.15 0.050 0 0 0 0-0 56.25 0.178 20

DUP		Sample ID: 1411550-01A DUP				Units: % of sample		Analysis Date: 11/12/2014 08:00 PM		
Client ID: PA 14-6-BK-1		Run ID: MOIST_141112E				SeqNo: 3034068		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.22 0.050 0 0 0 0-0 8.85 7.38 20

The following samples were analyzed in this batch:

1411550-01A	1411550-02A	1411550-03A
1411550-04A	1411550-05A	

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



ALS Environmental

3352 128th Avenue Holland, MI 49424
PH: (616) 399-6070

Chain-of-Custody

WORKORDER #

1411550

PROJECT NAME	SAMPLER	DATE	PAGE
PA 14-6 Backgrounds	Mike Lobato	11/11/14	1 of 1
PROJECT NO.	SITE ID	TURNAROUND	DISPOSAL
	PA 14-6	24 Hour	By Lab or Return to Client
COMPANY NAME	EDD FORMAT		
HRL Compliance Solutions, Inc.			
SEND REPORT TO	PURCHASE ORDER		
Mark Mumby			
ADDRESS	BILL TO COMPANY		
2385 F 1/2 Road	WPX Energy		
CITY/STATE/ZIP	INVOICE ATTN TO		
Grand Junction, CO 81505	Karolina Blaney		
PHONE	ADDRESS		
970-243-3271	1058 Co. Rd. 215		
FAX	CITY/STATE/ZIP		
970-243-3280	Parachute, CO 81635		
E-MAIL	PHONE		
mmumby@hrlcomp.com; mlobato@hrlcomp.com	970-683-2295		
	FAX		
	E-MAIL		
	Karolina.blaney@wpxenergy.com		
Lab ID	Field ID	Matrix	Sample Date
1	PA 14-6-BK-1	Soil	11/11/14
2	PA 14-6-BK-2		1228
3	PA 14-6-BK-3		1232
4	PA 14-6-BK-4		1236
5	PA 14-6-BK-5		1240
			1242

*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)

3.4°C

*reservative 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	Mike Lobato	11/11/14	1304
RECEIVED BY		11-11-14	1305
RELINQUISHED BY		11-11-14	1720
RECEIVED BY	Diane F. Shea	11/12/14	0930
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **12-Nov-14 09:30**

Work Order: **1411550**

Received by: **DS**

Checklist completed by <u><i>Diane Shaw</i></u>	12-Nov-14	Reviewed by: <u><i>Ann Preston</i></u>	12-Nov-14
eSignature	Date	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"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>11/12/2014 10:52:58 AM</u>		
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) 399-8870
 Nick Martinez
 ALS Environmental
 127 E. 1st Street
 PARACHUTE, CO 81835

Origin ID: RLA



Ship Date: 11NOV14
 ActWgt: 58.0 LB
 CAD: 2264840/NET3550

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



SHIP TO: (616) 399-8970
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

Ref # 111114-1
 Invoice #
 PO # Parachute
 Dept #

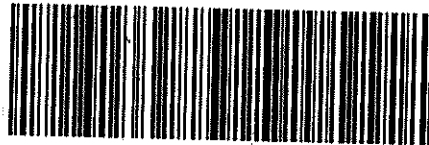
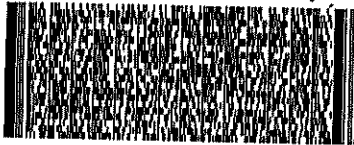
HOLLAND, MI 49424

WED - 12 NOV 10:30A
 PRIORITY OVERNIGHT

TRK# 7718 2443 0027
 6281

XX HLMA

49424
 MI-US
 GRR



522G18 (6CMAC)

After printing this label:

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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ALS Parachute Custody Seal

DATE 11-11-14 Time 1730Name N. Martinez