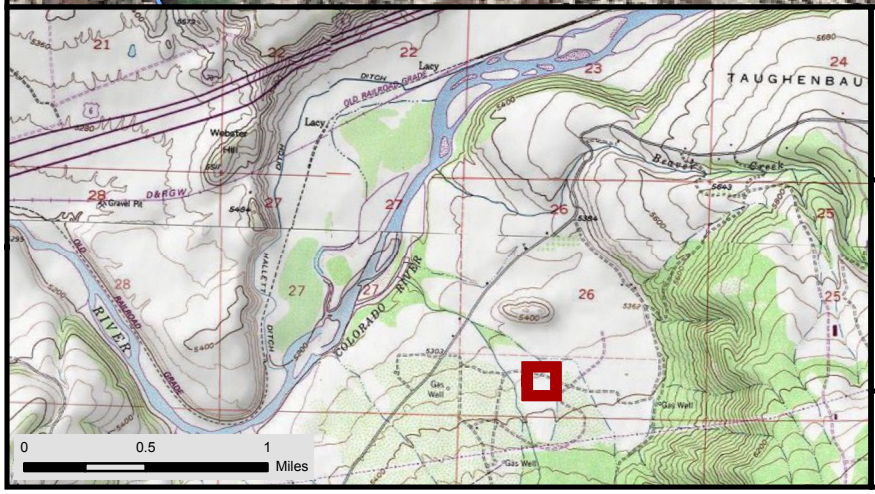

WPXENERGY Sample Location Map: Juhan 14-26H

39.491831 -107.858389
Section 26, Township 6 South, Range 94 West

- Sample Location
- Impacted Area

PLSS
- Township
- Section

Transportation
- CO Highways
- County Roads
- Local Streets
- Access Roads

Hydrography
- Ditch
- Intermittent Stream
- Perennial Stream
- Waterbody
- Watershed

HRL Compliance Solutions, Inc.
Environmental Consultants

N

Author: B. Hall
Revision: 0
Date: 12/2/2014

T:\Client_Specific\2014\Fat Dog Foam\Juhan 14-26\Spills\Fat Dog Foam Juhan 14-26 Sample Location Map 12-2-14.mxd

Analytical Results

Contaminant of Concern ↓	COGCC standards	Location →	SS-01	Juhan 14-26-BK-1	Juhan 14-26-BK-2	Juhan 14-26-BK-3
		Date Sampled	11/20/2014	11/20/2014	11/20/2014	11/20/2014
Organic Compounds in Soil						
TPH	500	mg/kg	110			
DRO		mg/kg	110			
GRO		mg/kg	ND			
Benzene	0.17	mg/kg	ND			
Toluene	85	mg/kg	ND			
Ethylbenzene	100	mg/kg	ND			
Xylenes (Total)	175	mg/kg	ND			
Acenaphthene	1,000	mg/kg	ND			
Anthracene	1,000	mg/kg	ND			
Benzo(A)anthracene	0.22	mg/kg	ND			
Benzo(B)fluoranthene	0.22	mg/kg	ND			
Benzo(K)fluoranthene	2.2	mg/kg	ND			
Benzo(A)pyrene	0.022	mg/kg	ND			
Chrysene	22	mg/kg	ND			
Dibenzo(A,H)anthracene	0.022	mg/kg	ND			
Fluoranthene	1,000	mg/kg	ND			
Fluorene	1,000	mg/kg	ND			
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	ND			
Naphthalene	23	mg/kg	ND			
Pyrene	1,000	mg/kg	ND			
Inorganics in Soil						
EC	<4 or 2 x background	mmhos/cm	30	3		
SAR	<12		20	1.8		
pH	6-9		7.9	8.3		
Metals in Soil						
Arsenic	0.39	mg/kg	10	11	9.8	10
Barium total	15,000	mg/kg	440			
Cadmium	70	mg/kg	ND			
Chromium (III)	120,000	mg/kg	14			
Chromium (VI)	23	mg/kg	0.56			
Copper	3,100	mg/kg	15			
Lead	400	mg/kg	13			
Mercury	23	mg/kg	0.026			
Nickel	1,600	mg/kg	13			
Selenium	390	mg/kg	ND			
Silver	390	mg/kg	ND			
Zinc	23,000	mg/kg	56			

02-Dec-2014

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

Re: **WPX Juhan 14-26 Spill 11.20.14** Work Order: **14111146**

Dear Mark,

ALS Environmental received 1 sample on 21-Nov-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 25.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 02-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Spill 11.20.14
Work Order: **14111146**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14111146-01	Juhan 14-26 Confirmation SS01	Soil		11/20/2014 13:19	11/21/2014 10:00	☐

ALS Group USA, Corp

Date: 02-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Spill 11.20.14
Work Order: 14111146

Case Narrative

Batch 65367 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 65478 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
% 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-Dec-14*

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Spill 11.20.14 **Work Order:** 14111146
Sample ID: Juhan 14-26 Confirmation SS01 **Lab ID:** 14111146-01
Collection Date: 11/20/2014 01:19 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/24/14	Analyst: **IT**
DRO (C10-C28)	**110**		**4.5**	**mg/Kg-dry**	1	11/25/2014 11:14 AM
Surr: 4-Terphenyl-d14	*83.8*		*39-133*	*%REC*	1	11/25/2014 11:14 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 11/21/14	Analyst: **IT**
GRO (C6-C10)	ND		2.7	mg/Kg-dry	1	11/22/2014 02:44 PM
Surr: Toluene-d8	*101*		*50-150*	*%REC*	1	11/22/2014 02:44 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 12/1/14	Analyst: **LR**
Mercury	**0.026**		**0.013**	**mg/Kg-dry**	1	12/1/2014 05:02 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/24/14	Analyst: **JEC**
Arsenic	**10**		**0.41**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
Barium	**440**		**0.41**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
Cadmium	ND		0.33	mg/Kg-dry	1	11/24/2014 04:00 PM
Chromium	**14**		**0.41**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
Copper	**15**		**0.41**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
Lead	**13**		**0.41**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
Nickel	**13**		**0.41**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
Selenium	ND		0.41	mg/Kg-dry	1	11/24/2014 04:00 PM
Silver	ND		0.41	mg/Kg-dry	1	11/24/2014 04:00 PM
Zinc	**56**		**0.82**	**mg/Kg-dry**	1	11/24/2014 04:00 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/26/14	Analyst: **JEC**
Calcium	**1,200**		**5.0**	**mg/L**	10	11/26/2014 11:32 AM
Magnesium	**340**		**2.0**	**mg/L**	10	11/26/2014 11:32 AM
Sodium	**3,000**		**2.0**	**mg/L**	10	11/26/2014 11:32 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 11/26/14	Analyst: **JEC**
Sodium Adsorption Ratio	**20**		**0.010**	**none**	1	11/26/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/24/14	Analyst: **RM**
Acenaphthene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Acenaphthylene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Anthracene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Benzo(a)anthracene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Benzo(a)pyrene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Benzo(b)fluoranthene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Benzo(g,h,i)perylene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Benzo(k)fluoranthene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Chrysene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM

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

ALS Group USA, Corp

Date: *02-Dec-14*

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Spill 11.20.14 **Work Order:** 14111146
Sample ID: Juhan 14-26 Confirmation SS01 **Lab ID:** 14111146-01
Collection Date: 11/20/2014 01:19 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Fluoranthene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Fluorene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Indeno(1,2,3-cd)pyrene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Naphthalene	ND		7.2	µg/Kg-dry	1	11/25/2014 03:32 AM
Pyrene	**8.3**		**7.2**	**µg/Kg-dry**	1	11/25/2014 03:32 AM
Surr: 2-Fluorobiphenyl	*74.3*		*12-100*	*%REC*	1	11/25/2014 03:32 AM
Surr: 4-Terphenyl-d14	*63.4*		*25-137*	*%REC*	1	11/25/2014 03:32 AM
Surr: Nitrobenzene-d5	*55.5*		*37-107*	*%REC*	1	11/25/2014 03:32 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/21/14	Analyst: **JDW**
Benzene	ND		33	µg/Kg-dry	1	11/24/2014 04:56 PM
Ethylbenzene	ND		33	µg/Kg-dry	1	11/24/2014 04:56 PM
m,p-Xylene	ND		65	µg/Kg-dry	1	11/24/2014 04:56 PM
o-Xylene	ND		33	µg/Kg-dry	1	11/24/2014 04:56 PM
Toluene	ND		33	µg/Kg-dry	1	11/24/2014 04:56 PM
Xylenes, Total	ND		98	µg/Kg-dry	1	11/24/2014 04:56 PM
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-130*	*%REC*	1	11/24/2014 04:56 PM
Surr: 4-Bromofluorobenzene	*99.8*		*70-130*	*%REC*	1	11/24/2014 04:56 PM
Surr: Dibromofluoromethane	*91.8*		*70-130*	*%REC*	1	11/24/2014 04:56 PM
Surr: Toluene-d8	*101*		*70-130*	*%REC*	1	11/24/2014 04:56 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 11/26/14	Analyst: **JB**
Electrical Conductivity @ Saturation	**30**		**0.050**	**mmhos/cm @25**	10	11/26/2014 11:45 AM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**14**		**0.54**	**mg/Kg-dry**	1	12/2/2014 08:50 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/26/14	Analyst: **DAH**
Chromium, Hexavalent	**0.56**		**0.54**	**mg/Kg-dry**	1	12/1/2014 12:10 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**7.9**		**0.050**	**% of sample**	1	11/26/2014 02:00 PM
PH			**SW9045D**		Prep: EXTRACT / 11/24/14	Analyst: **STP**
pH	**7.9**			**s.u.**	1	11/24/2014 02:15 PM

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

ALS Group USA, Corp

Date: 02-Dec-14

Client: HRL Compliance Solutions, Inc

Work Order: 14111146

Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65365** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-65365-65365** Units: **mg/Kg** Analysis Date: **11/25/2014 09:24 AM**

Client ID: Run ID: **GC8_141125A** SeqNo: **3053081** Prep Date: **11/24/2014** 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	*1.09*	0	*1.667*	0	*65.4*	*39-133*	0			

LCS Sample ID: **DLCSS1-65365-65365** Units: **mg/Kg** Analysis Date: **11/25/2014 09:51 AM**

Client ID: Run ID: **GC8_141125A** SeqNo: **3053084** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	167.9	4.2	166.7	0	101	61-109	0			
Surr: 4-Terphenyl-d14	*1.026*	0	*1.667*	0	*61.5*	*39-133*	0			

MS Sample ID: **14111146-01B MS** Units: **mg/Kg** Analysis Date: **11/25/2014 10:19 AM**

Client ID: **Juhan 14-26 Confirmation SS01** Run ID: **GC8_141125A** SeqNo: **3053087** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	398	7.9	316.1	103.8	93.1	48-110	0			
Surr: 4-Terphenyl-d14	*2.389*	0	*3.161*	0	*75.6*	*39-133*	0			

MSD Sample ID: **14111146-01B MSD** Units: **mg/Kg** Analysis Date: **11/25/2014 10:47 AM**

Client ID: **Juhan 14-26 Confirmation SS01** Run ID: **GC8_141125A** SeqNo: **3053089** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	432	8.1	325.4	103.8	101	48-110	398	8.18	30	
Surr: 4-Terphenyl-d14	*2.488*	0	*3.254*	0	*76.5*	*39-133*	2.389	*4.04*	*30*	

The following samples were analyzed in this batch: 14111146-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65316** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-65316-65316** Units: **µg/Kg** Analysis Date: **11/21/2014 02:53 PM**
Client ID: Run ID: **GC9_141121A** SeqNo: **3049816** Prep Date: **11/21/2014** 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								
Surr: Toluene-d8	*5354*	0	*5000*	0	*107*	*50-150*	0			

LCS Sample ID: **LCS-65316-65316** Units: **µg/Kg** Analysis Date: **11/21/2014 02:28 PM**
Client ID: Run ID: **GC9_141121A** SeqNo: **3049814** Prep Date: **11/21/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	410100	2,500	500000	0	82	70-130	0			
Surr: Toluene-d8	*4784*	0	*5000*	0	*95.7*	*50-150*	0			

MS Sample ID: **14111037-01A MS** Units: **µg/Kg** Analysis Date: **11/21/2014 08:51 PM**
Client ID: Run ID: **GC9_141121A** SeqNo: **3049824** Prep Date: **11/21/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	577200	2,500	500000	0	115	70-130	0			
Surr: Toluene-d8	*5146*	0	*5000*	0	*103*	*50-150*	0			

MSD Sample ID: **14111037-01A MSD** Units: **µg/Kg** Analysis Date: **11/21/2014 09:17 PM**
Client ID: Run ID: **GC9_141121A** SeqNo: **3049825** Prep Date: **11/21/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	549400	2,500	500000	0	110	70-130	577200	4.94	30	
Surr: Toluene-d8	*5023*	0	*5000*	0	*100*	*50-150*	5146	*2.43*	*30*	

The following samples were analyzed in this batch: 14111146-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65518** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-65518-65518** Units: **mg/Kg** Analysis Date: **12/1/2014 04:37 PM**
Client ID: Run ID: **HG1_141201A** SeqNo: **3056503** Prep Date: **12/1/2014** 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-65518-65518** Units: **mg/Kg** Analysis Date: **12/1/2014 04:39 PM**
Client ID: Run ID: **HG1_141201A** SeqNo: **3056504** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1726	0.020	0.1665	0	104	80-120	0			

MS Sample ID: **14111222-01BMS** Units: **mg/Kg** Analysis Date: **12/1/2014 05:19 PM**
Client ID: Run ID: **HG1_141201A** SeqNo: **3056529** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1097	0.012	0.1024	-0.001103	108	75-125	0			

MSD Sample ID: **14111222-01BMSD** Units: **mg/Kg** Analysis Date: **12/1/2014 05:21 PM**
Client ID: Run ID: **HG1_141201A** SeqNo: **3056530** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1067	0.012	0.1001	-0.001103	108	75-125	0.1097	2.84	35	

The following samples were analyzed in this batch: 14111146-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65366** Instrument ID **ICP2** Method: **SW846 6010C**

DUP Sample ID: **14111151-01BDUP** Units: **mg/L** Analysis Date: **11/26/2014 11:55 AM**
Client ID: Run ID: **ICP2_141126A** SeqNo: **3054414** Prep Date: **11/26/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	265.1	5.0	0	0	0	0-0	290.8	9.25		
Magnesium	81.39	2.0	0	0	0	0-0	88.69	8.58		
Sodium	124.4	2.0	0	0	0	0-0	138.1	10.4		

DUP Sample ID: **14111151-01BDUP** Units: **none** Analysis Date: **11/26/2014**
Client ID: Run ID: **SAR_141126A** SeqNo: **3054437** Prep Date: **11/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.714	0.010	0	0	0		1.819	5.94	50	

The following samples were analyzed in this batch: 14111146-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65367** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-65367-65367** Units: **mg/Kg** Analysis Date: **11/24/2014 11:51 AM**
Client ID: Run ID: **ICP2_141124A** SeqNo: **3050136** Prep Date: **11/24/2014** 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	0.272	0.50								J

MBLK Sample ID: **MBLK-65367-65367** Units: **mg/Kg** Analysis Date: **11/25/2014 03:48 PM**
Client ID: Run ID: **ICP2_141125A** SeqNo: **3053809** Prep Date: **11/24/2014** 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	0.2026	0.50								J

LCS Sample ID: **LCS-65367-65367** Units: **mg/Kg** Analysis Date: **11/24/2014 12:00 PM**
Client ID: Run ID: **ICP2_141124A** SeqNo: **3050137** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.688	0.25	5	0	93.8	80-120	0			
Barium	4.815	0.25	5	0	96.3	80-120	0			
Cadmium	4.606	0.50	5	0	92.1	80-120	0			
Chromium	4.979	0.25	5	0	99.6	80-120	0			
Copper	4.918	0.50	5	0	98.4	80-120	0			
Lead	4.931	0.25	5	0	98.6	80-120	0			
Nickel	4.893	0.25	5	0	97.9	80-120	0			
Selenium	4.656	0.50	5	0	93.1	80-120	0			
Silver	4.959	0.25	5	0	99.2	80-120	0			
Zinc	5.159	0.50	5	0	103	80-120	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65367** Instrument ID **ICP2** Method: **SW846 6010C**

LCS Sample ID: **LCS-65367-65367** Units: **mg/Kg** Analysis Date: **11/25/2014 03:53 PM**
Client ID: Run ID: **ICP2_141125A** SeqNo: **3053810** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.645	0.25	5	0	92.9	80-120	0			
Barium	4.725	0.25	5	0	94.5	80-120	0			
Cadmium	4.667	0.50	5	0	93.3	80-120	0			
Chromium	4.879	0.25	5	0	97.6	80-120	0			
Copper	5.007	0.50	5	0	100	80-120	0			
Lead	4.897	0.25	5	0	97.9	80-120	0			
Nickel	4.877	0.25	5	0	97.5	80-120	0			
Selenium	4.807	0.50	5	0	96.1	80-120	0			
Silver	5.056	0.25	5	0	101	80-120	0			
Zinc	5.375	0.50	5	0	108	80-120	0			

MS Sample ID: **14111151-01AMS** Units: **mg/Kg** Analysis Date: **11/24/2014 12:46 PM**
Client ID: Run ID: **ICP2_141124A** SeqNo: **3050623** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.35	0.36	7.215	9.563	122	75-125	0			
Barium	246.6	0.36	7.215	254.5	-110	75-125	0			SO
Cadmium	6.802	0.72	7.215	-0.02726	94.7	75-125	0			
Chromium	26.6	0.36	7.215	15.92	148	75-125	0			S
Copper	22.98	0.72	7.215	15.24	107	75-125	0			
Lead	19.92	0.36	7.215	11.59	116	75-125	0			
Nickel	21.44	0.36	7.215	14.42	97.3	75-125	0			
Selenium	7.218	0.72	7.215	-0.007304	100	75-125	0			
Silver	8.334	0.36	7.215	-0.1477	118	75-125	0			
Zinc	65.15	0.72	7.215	51.17	194	75-125	0			SO

MSD Sample ID: **14111151-01AMSD** Units: **mg/Kg** Analysis Date: **11/24/2014 01:26 PM**
Client ID: Run ID: **ICP2_141124A** SeqNo: **3050637** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.83	0.36	7.236	9.563	114	75-125	18.35	2.86	20	
Barium	245.2	0.36	7.236	254.5	-129	75-125	246.6	0.572	20	SO
Cadmium	6.636	0.72	7.236	-0.02726	92.1	75-125	6.802	2.48	20	
Chromium	25.6	0.36	7.236	15.92	134	75-125	26.6	3.82	20	S
Copper	21.77	0.72	7.236	15.24	90.3	75-125	22.98	5.43	20	
Lead	19.24	0.36	7.236	11.59	106	75-125	19.92	3.52	20	
Nickel	20.86	0.36	7.236	14.42	89	75-125	21.44	2.74	20	
Selenium	7.393	0.72	7.236	-0.007304	102	75-125	7.218	2.4	20	
Silver	8.131	0.36	7.236	-0.1477	114	75-125	8.334	2.47	20	
Zinc	62.91	0.72	7.236	51.17	162	75-125	65.15	3.49	20	SO

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65367** Instrument ID **ICP2** Method: **SW846 6010C**

The following samples were analyzed in this batch: 14111146-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65364** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-65364-65364** Units: **µg/Kg** Analysis Date: **11/24/2014 05:36 PM**
Client ID: Run ID: **SVMS8_141124A** SeqNo: **3052817** Prep Date: **11/24/2014** 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								
Surr: 2-Fluorobiphenyl	*1253*	0	*1667*	0	*75.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1472*	0	*1667*	0	*88.3*	*25-137*	0			
Surr: Nitrobenzene-d5	*1167*	0	*1667*	0	*70*	*37-107*	0			

LCS Sample ID: **SLCSS1-65364-65364** Units: **µg/Kg** Analysis Date: **11/24/2014 05:56 PM**
Client ID: Run ID: **SVMS8_141124A** SeqNo: **3052818** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	515.7	6.7	666.7	0	77.3	45-110	0			
Acenaphthylene	542	6.7	666.7	0	81.3	45-105	0			
Anthracene	600.3	6.7	666.7	0	90	55-105	0			
Benzo(a)anthracene	593.3	6.7	666.7	0	89	50-110	0			
Benzo(a)pyrene	681	6.7	666.7	0	102	50-110	0			
Benzo(b)fluoranthene	669.7	6.7	666.7	0	100	45-115	0			
Benzo(g,h,i)perylene	613	6.7	666.7	0	91.9	40-125	0			
Benzo(k)fluoranthene	687.7	6.7	666.7	0	103	45-115	0			
Chrysene	627.7	6.7	666.7	0	94.1	55-110	0			
Dibenzo(a,h)anthracene	636.7	6.7	666.7	0	95.5	40-125	0			
Fluoranthene	592.3	6.7	666.7	0	88.8	55-115	0			
Fluorene	557.7	6.7	666.7	0	83.6	50-110	0			
Indeno(1,2,3-cd)pyrene	636.3	6.7	666.7	0	95.4	40-120	0			
Naphthalene	523	6.7	666.7	0	78.4	40-105	0			
Pyrene	633.3	6.7	666.7	0	95	45-125	0			
Surr: 2-Fluorobiphenyl	*1262*	0	*1667*	0	*75.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1472*	0	*1667*	0	*88.3*	*25-137*	0			
Surr: Nitrobenzene-d5	*1261*	0	*1667*	0	*75.6*	*37-107*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65364** Instrument ID **SVMS8** Method: **SW846 8270D**

MS Sample ID: **14111078-01B MS** Units: **µg/Kg** Analysis Date: **11/24/2014 07:47 PM**
Client ID: Run ID: **SVMS8_141124A** SeqNo: **3052819** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1149	13	1267	5.841	90.3	45-110	0			
Acenaphthylene	1154	13	1267	5.516	90.7	45-105	0			
Anthracene	1172	13	1267	21.74	90.8	55-105	0			
Benzo(a)anthracene	1237	13	1267	98.65	89.9	50-110	0			
Benzo(a)pyrene	1461	13	1267	164.2	102	50-110	0			
Benzo(b)fluoranthene	1463	13	1267	218.4	98.3	45-115	0			
Benzo(g,h,i)perylene	1432	13	1267	154.8	101	40-125	0			
Benzo(k)fluoranthene	1310	13	1267	84.04	96.8	45-115	0			
Chrysene	1343	13	1267	142.8	94.8	55-110	0			
Dibenzo(a,h)anthracene	1346	13	1267	34.72	104	40-125	0			
Fluoranthene	1412	13	1267	209.9	94.9	55-115	0			
Fluorene	1142	13	1267	6.49	89.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1466	13	1267	161	103	40-120	0			
Naphthalene	904.9	13	1267	5.516	71	40-105	0			
Pyrene	1145	13	1267	155.1	78.1	45-125	0			
Surr: 2-Fluorobiphenyl	*2698*	0	*3166*	0	*85.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2332*	0	*3166*	0	*73.6*	*25-137*	0			
Surr: Nitrobenzene-d5	*2175*	0	*3166*	0	*68.7*	*37-107*	0			

MSD Sample ID: **14111078-01B MSD** Units: **µg/Kg** Analysis Date: **11/24/2014 08:07 PM**
Client ID: Run ID: **SVMS8_141124A** SeqNo: **3052820** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1050	13	1289	5.841	81	45-110	1149	9.06	30	
Acenaphthylene	1054	13	1289	5.516	81.3	45-105	1154	9.13	30	
Anthracene	1092	13	1289	21.74	83.1	55-105	1172	7	30	
Benzo(a)anthracene	1159	13	1289	98.65	82.2	50-110	1237	6.57	30	
Benzo(a)pyrene	1302	13	1289	164.2	88.3	50-110	1461	11.5	30	
Benzo(b)fluoranthene	1327	13	1289	218.4	86	45-115	1463	9.79	30	
Benzo(g,h,i)perylene	1251	13	1289	154.8	85	40-125	1432	13.5	30	
Benzo(k)fluoranthene	1218	13	1289	84.04	88	45-115	1310	7.3	30	
Chrysene	1212	13	1289	142.8	83	55-110	1343	10.2	30	
Dibenzo(a,h)anthracene	1184	13	1289	34.72	89.2	40-125	1346	12.8	30	
Fluoranthene	1325	13	1289	209.9	86.5	55-115	1412	6.33	30	
Fluorene	1061	13	1289	6.49	81.8	50-110	1142	7.3	30	
Indeno(1,2,3-cd)pyrene	1314	13	1289	161	89.5	40-120	1466	10.9	30	
Naphthalene	882.9	13	1289	5.516	68.1	40-105	904.9	2.47	30	
Pyrene	1286	13	1289	155.1	87.8	45-125	1145	11.6	30	
Surr: 2-Fluorobiphenyl	*2305*	0	*3222*	0	*71.5*	*12-100*	2698	*15.7*	*40*	
Surr: 4-Terphenyl-d14	*2435*	0	*3222*	0	*75.6*	*25-137*	2332	*4.32*	*40*	
Surr: Nitrobenzene-d5	*2070*	0	*3222*	0	*64.2*	*37-107*	2175	*4.96*	*40*	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65364** Instrument ID **SVMS8** Method: **SW846 8270D**

The following samples were analyzed in this batch: 14111146-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65315** Instrument ID **VMS6** Method: **SW8260B**

MBLK Sample ID: **MBLK-65315-65315** Units: **µg/Kg** Analysis Date: **11/21/2014 09:51 PM**
Client ID: Run ID: **VMS6_141121A** SeqNo: **3048937** Prep Date: **11/21/2014** 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								
Surr: 1,2-Dichloroethane-d4	*1028*	0	*1000*	0	*103*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*976.5*	0	*1000*	0	*97.6*	*70-130*	0			
Surr: Dibromofluoromethane	*957.5*	0	*1000*	0	*95.8*	*70-130*	0			
Surr: Toluene-d8	*990.5*	0	*1000*	0	*99*	*70-130*	0			

LCS Sample ID: **LCS-65315-65315** Units: **µg/Kg** Analysis Date: **11/21/2014 08:33 PM**
Client ID: Run ID: **VMS6_141121A** SeqNo: **3048935** Prep Date: **11/21/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1163	30	1000	0	116	75-125	0			
Ethylbenzene	1204	30	1000	0	120	75-125	0			
m,p-Xylene	2349	60	2000	0	117	80-125	0			
o-Xylene	1178	30	1000	0	118	75-125	0			
Toluene	1126	30	1000	0	113	70-125	0			
Xylenes, Total	3526	90	3000	0	118	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*1020*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*985.5*	0	*1000*	0	*98.6*	*70-130*	0			

MS Sample ID: **14111078-01A MS** Units: **µg/Kg** Analysis Date: **11/25/2014 10:21 AM**
Client ID: Run ID: **VMS6_141124B** SeqNo: **3052673** Prep Date: **11/21/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1042	30	1000	0	104	75-125	0			
Ethylbenzene	1100	30	1000	0	110	75-125	0			
m,p-Xylene	2150	60	2000	0	108	80-125	0			
o-Xylene	1062	30	1000	0	106	75-125	0			
Toluene	1034	30	1000	0	103	70-125	0			
Xylenes, Total	3212	90	3000	0	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	*975.5*	0	*1000*	0	*97.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1028*	0	*1000*	0	*103*	*70-130*	0			
Surr: Dibromofluoromethane	*953*	0	*1000*	0	*95.3*	*70-130*	0			
Surr: Toluene-d8	*970.5*	0	*1000*	0	*97*	*70-130*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65315** Instrument ID **VMS6** Method: **SW8260B**

MSD Sample ID: **14111078-01A MSD** Units: **µg/Kg** Analysis Date: **11/25/2014 10:47 AM**
Client ID: Run ID: **VMS6_141124B** SeqNo: **3052675** Prep Date: **11/21/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	982.5	30	1000	0	98.2	75-125	1042	5.88	30	
Ethylbenzene	1025	30	1000	0	102	75-125	1100	7.1	30	
m,p-Xylene	2048	60	2000	0	102	80-125	2150	4.86	30	
o-Xylene	1022	30	1000	0	102	75-125	1062	3.84	30	
Toluene	998.5	30	1000	0	99.8	70-125	1034	3.49	30	
Xylenes, Total	3070	90	3000	0	102	75-125	3212	4.52	30	
Surr: 1,2-Dichloroethane-d4	*1008*	0	*1000*	0	*101*	*70-130*	975.5	*3.28*	*30*	
Surr: 4-Bromofluorobenzene	*1022*	0	*1000*	0	*102*	*70-130*	1028	*0.488*	*30*	
Surr: Dibromofluoromethane	*1015*	0	*1000*	0	*102*	*70-130*	953	*6.3*	*30*	
Surr: Toluene-d8	*988.5*	0	*1000*	0	*98.8*	*70-130*	970.5	*1.84*	*30*	

The following samples were analyzed in this batch: 14111146-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65366** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **14111151-01B DUP** Units: **mmhos/cm @25°C** Analysis Date: **11/26/2014 11:45 AM**

Client ID: Run ID: **WETCHEM_141126F** SeqNo: **3054303** Prep Date: **11/26/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.12	0.050	0	0	0		3.01	3.59	50	

The following samples were analyzed in this batch: 14111146-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65386** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-R153135-65386** Units: **s.u.** Analysis Date: **11/24/2014 02:15 PM**
Client ID: Run ID: **WETCHEM_141124I** SeqNo: **3051066** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4	0	4	0	100	90-110	0			

DUP Sample ID: **14111073-01A DUP** Units: **s.u.** Analysis Date: **11/24/2014 02:15 PM**
Client ID: Run ID: **WETCHEM_141124I** SeqNo: **3051068** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	10.2	0	0	0	0	0-0	10.31	1.07	20	

DUP Sample ID: **14111146-01B DUP** Units: **s.u.** Analysis Date: **11/24/2014 02:15 PM**
Client ID: **Juhan 14-26 Confirmation SS01** Run ID: **WETCHEM_141124I** SeqNo: **3051078** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.88	0	0	0	0	0-0	7.93	0.633	20	

The following samples were analyzed in this batch: 14111146-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **65478** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-65478-65478** Units: **mg/Kg** Analysis Date: **12/1/2014 12:10 PM**
Client ID: Run ID: **WETCHEM_141201K** SeqNo: **3056321** Prep Date: **11/26/2014** 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-65478-65478** Units: **mg/Kg** Analysis Date: **12/1/2014 12:10 PM**
Client ID: Run ID: **WETCHEM_141201K** SeqNo: **3056320** Prep Date: **11/26/2014** 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: **14111147-01B MS** Units: **mg/Kg** Analysis Date: **12/1/2014 12:10 PM**
Client ID: Run ID: **WETCHEM_141201K** SeqNo: **3056316** Prep Date: **11/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.568	0.50	2	0.4661	5.09	75-125	0			S

MS Sample ID: **14111147-01B MSI** Units: **mg/Kg** Analysis Date: **12/1/2014 12:10 PM**
Client ID: Run ID: **WETCHEM_141201K** SeqNo: **3056318** Prep Date: **11/26/2014** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	920	50	804.5	0.4661	114	75-125	0			

MSD Sample ID: **14111147-01B MSD** Units: **mg/Kg** Analysis Date: **12/1/2014 12:10 PM**
Client ID: Run ID: **WETCHEM_141201K** SeqNo: **3056317** Prep Date: **11/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.6653	0.50	1.992	0.4661	10	75-125	0.568	15.8	20	S

The following samples were analyzed in this batch: 14111146-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111146
Project: WPX Juhan 14-26 Spill 11.20.14

QC BATCH REPORT

Batch ID: **R153384** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R153384** Units: **% of sample** Analysis Date: **11/26/2014 02:00 PM**
Client ID: Run ID: **MOIST_141126A** SeqNo: **3056000** 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-R153384** Units: **% of sample** Analysis Date: **11/26/2014 02:00 PM**
Client ID: Run ID: **MOIST_141126A** SeqNo: **3055999** 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: **14111298-01B DUP** Units: **% of sample** Analysis Date: **11/26/2014 02:00 PM**
Client ID: Run ID: **MOIST_141126A** SeqNo: **3055983** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.4	0.050	0	0	0	0-0	12.62	13.2	20	

DUP Sample ID: **14111367-01A DUP** Units: **% of sample** Analysis Date: **11/26/2014 02:00 PM**
Client ID: Run ID: **MOIST_141126A** SeqNo: **3055989** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.61	0.050	0	0	0	0-0	16.58	6.03	20	

The following samples were analyzed in this batch: 14111146-01B

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

Form 202r8

WORKORDER #	1411146
PAGE	1 of 1
DISPOSAL	By Lab or Return to Client

PROJECT NAME	Jihan 14-26 Spill	SAMPLER	Mike Lobato
PROJECT No.		SITE ID	Juhan · 14-26
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HRL Compliance Solutions, Inc.	BILL TO COMPANY	WPX Energy
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney
ADDRESS	2385 F ½ Road	ADDRESS	1058 Co. Rd. 215
CITY / STATE / ZIP	Grand Junction, CO 81505	CITY / STATE / ZIP	Parachute, CO 81635
PHONE	970-243-3271	PHONE	970-683-2295
FAX	970-243-3280	FAX	
E-MAIL	mmumby@hrlcomp.com; mlobato@hrlcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com

DATE: 11/20/14

TURNAROUND: Standard 5 DAYS

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	06CC TABLE 910.1
1	Juhan 14-26 Continuation SS01	S	11/20/14	13:19	3	8		X

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

For metals or anions, please detail analytes below.

Comments: Complete 910.1 organics & Inorganics Table

3.4°c

QC PACKAGE (check below)	
X	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Mike Lobato	11/20/14	1424
RECEIVED BY		NM	11-2014	1435
RELINQUISHED BY		NM	11-20	1500
RECEIVED BY		Diane F Shea	11/21/14	1000
RELINQUISHED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **21-Nov-14 10:00**

Work Order: **14111146** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 21-Nov-14 (Date) Reviewed by: Ann Preston (eSignature) 21-Nov-14 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/21/20141:32:51 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
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

PARACHUTE, CO 81635

Origin ID: RBLA

Ship Date: 20NOV14
ActWgt: 75.0 LB
CAD: 2284840/INET3550

Dims: 14 X 20 X 15 IN

Delivery Address Bar Code

Ref # 112014-1
Invoice #
PO # Parachute
Dept #

BILL SENDER

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

HOLLAND, MI 49424

1 of 2

TRK# 7719 4112 7110

FRI - 21 NOV 10:30A
PRIORITY OVERNIGHT

MASTER

XX HLMA

49424
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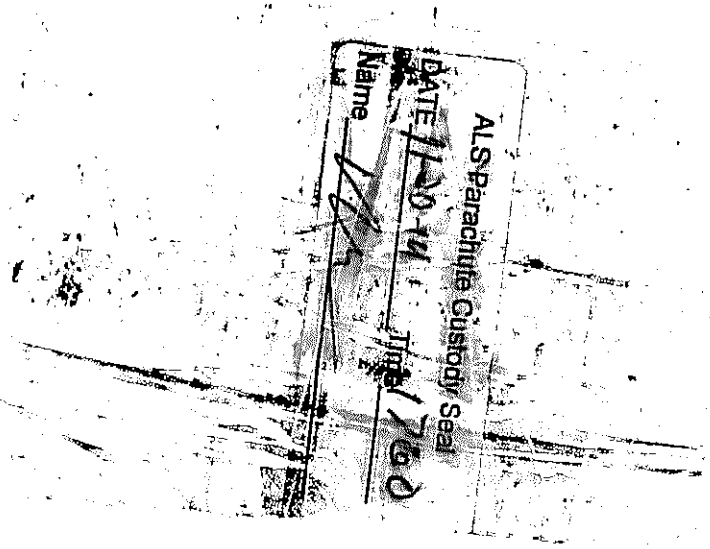

26-Nov-2014

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

Re: **WPX Juhan 14-26 Backgrounds 11.20.14** Work Order: **14111151**

Dear Mark,

ALS Environmental received 3 samples on 21-Nov-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 15.

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

Sincerely,

Ann Preston

Electronically approved by: Joseph Ribar

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 26-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Backgrounds 11.20.14
Work Order: **14111151**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14111151-01	Juhan 14-26-BK-1	Soil		11/20/2014 11:55	11/21/2014 10:00	☐
14111151-02	Juhan 14-26-BK-2	Soil		11/20/2014 12:00	11/21/2014 10:00	☐
14111151-03	Juhan 14-26-BK-3	Soil		11/20/2014 12:05	11/21/2014 10:00	☐

ALS Group USA, Corp

Date: *26-Nov-14*

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Backgrounds 11.20.14 **Work Order:** 14111151
Sample ID: Juhan 14-26-BK-1 **Lab ID:** 14111151-01
Collection Date: 11/20/2014 11:55 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/24/14	Analyst: **JEC**
Arsenic	**11**		**0.40**	**mg/Kg-dry**	1	11/24/2014 12:40 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/26/14	Analyst: **JEC**
Calcium	**290**		**5.0**	**mg/L**	10	11/26/2014 11:49 AM
Magnesium	**89**		**2.0**	**mg/L**	10	11/26/2014 11:49 AM
Sodium	**140**		**2.0**	**mg/L**	10	11/26/2014 11:49 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/26/14	Analyst: **JEC**
Sodium Adsorption Ratio	**1.8**		**0.010**	**none**	1	11/26/2014
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/26/14	Analyst: **JB**
Electrical Conductivity @ Saturation	**3.0**		**0.050**	**mmhos/cm @2**	10	11/26/2014 11:45 AM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**9.5**		**0.050**	**% of sample**	1	11/24/2014 04:45 PM
PH			**SW9045D**		Prep: EXTRACT / 11/24/14	Analyst: **STP**
pH	**8.3**			**s.u.**	1	11/24/2014 02:15 PM

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

ALS Group USA, Corp

Date: *26-Nov-14*

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Backgrounds 11.20.14 **Work Order:** 14111151
Sample ID: Juhan 14-26-BK-2 **Lab ID:** 14111151-02
Collection Date: 11/20/2014 12:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/24/14	Analyst: **JEC**
Arsenic	**9.8**		**0.40**	**mg/Kg-dry**	1	11/24/2014 04:28 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**9.4**		**0.050**	**% of sample**	1	11/24/2014 04:45 PM

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

ALS Group USA, Corp

Date: *26-Nov-14*

Client: HRL Compliance Solutions, Inc
Project: WPX Juhan 14-26 Backgrounds 11.20.14 **Work Order:** 14111151
Sample ID: Juhan 14-26-BK-3 **Lab ID:** 14111151-03
Collection Date: 11/20/2014 12:05 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/24/14	Analyst: **JEC**
Arsenic	**10**		**0.40**	**mg/Kg-dry**	1	11/24/2014 04:33 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**9.6**		**0.050**	**% of sample**	1	11/24/2014 04:45 PM

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

ALS Group USA, Corp

Date: 26-Nov-14

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
% of sample	Percent of Sample
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

QC BATCH REPORT

Batch ID: **65366** Instrument ID **ICP2** Method: **SW846 6010C**

DUP Sample ID: **14111151-01BDUP** Units: **mg/L** Analysis Date: **11/26/2014 11:55 A**

Client ID: **Juhan 14-26-BK-1** Run ID: **ICP2_141126A** SeqNo: **3054414** Prep Date: **11/26/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	265.1	5.0	0	0	0	0-0	290.8	9.25		
Magnesium	81.39	2.0	0	0	0	0-0	88.69	8.58		
Sodium	124.4	2.0	0	0	0	0-0	138.1	10.4		

DUP Sample ID: **14111151-01BDUP** Units: **none** Analysis Date: **11/26/2014**

Client ID: **Juhan 14-26-BK-1** Run ID: **SAR_141126A** SeqNo: **3054437** Prep Date: **11/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.714	0.010	0	0	0		1.819	5.94	50	

The following samples were analyzed in this batch: 14111151-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111151
Project: WPX Juhan 14-26 Backgrounds 11.20.14

QC BATCH REPORT

Batch ID: **65367** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-65367-65367** Units: **mg/Kg** Analysis Date: **11/24/2014 11:51 A**
Client ID: Run ID: **ICP2_141124A** SeqNo: **3050136** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

MBLK Sample ID: **MBLK-65367-65367** Units: **mg/Kg** Analysis Date: **11/25/2014 03:48 PM**
Client ID: Run ID: **ICP2_141125A** SeqNo: **3053809** Prep Date: **11/24/2014** 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-65367-65367** Units: **mg/Kg** Analysis Date: **11/24/2014 12:00 PM**
Client ID: Run ID: **ICP2_141124A** SeqNo: **3050137** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.688	0.25	5	0	93.8	80-120	0			

LCS Sample ID: **LCS-65367-65367** Units: **mg/Kg** Analysis Date: **11/25/2014 03:53 PM**
Client ID: Run ID: **ICP2_141125A** SeqNo: **3053810** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.645	0.25	5	0	92.9	80-120	0			

MS Sample ID: **14111151-01AMS** Units: **mg/Kg** Analysis Date: **11/24/2014 12:46 PM**
Client ID: **Juhan 14-26-BK-1** Run ID: **ICP2_141124A** SeqNo: **3050623** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.35	0.36	7.215	9.563	122	75-125	0			

MSD Sample ID: **14111151-01AMSD** Units: **mg/Kg** Analysis Date: **11/24/2014 01:26 PM**
Client ID: **Juhan 14-26-BK-1** Run ID: **ICP2_141124A** SeqNo: **3050637** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.83	0.36	7.236	9.563	114	75-125	18.35	2.86	20	

The following samples were analyzed in this batch:

14111151-01A	14111151-02A	14111151-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111151
Project: WPX Juhan 14-26 Backgrounds 11.20.14

QC BATCH REPORT

Batch ID: **65366** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP Sample ID: **14111151-01B DUP** Units: **mmhos/cm @25°** Analysis Date: **11/26/2014 11:45 A**

Client ID: **Juhan 14-26-BK-1** Run ID: **WETCHEM_141126F** SeqNo: **3054303** Prep Date: **11/26/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.12	0.050	0	0	0		3.01	3.59	50	

The following samples were analyzed in this batch: 14111151-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111151
Project: WPX Juhan 14-26 Backgrounds 11.20.14

QC BATCH REPORT

Batch ID: **65386** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-R153135-65386** Units: **s.u.** Analysis Date: **11/24/2014 02:15 PM**
Client ID: Run ID: **WETCHEM_141124I** SeqNo: **3051066** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4	0	4	0	100	90-110	0			

DUP Sample ID: **14111073-01A DUP** Units: **s.u.** Analysis Date: **11/24/2014 02:15 PM**
Client ID: Run ID: **WETCHEM_141124I** SeqNo: **3051068** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	10.2	0	0	0	0	0-0	10.31	1.07	20	

DUP Sample ID: **14111146-01B DUP** Units: **s.u.** Analysis Date: **11/24/2014 02:15 PM**
Client ID: Run ID: **WETCHEM_141124I** SeqNo: **3051078** Prep Date: **11/24/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.88	0	0	0	0	0-0	7.93	0.633	20	

The following samples were analyzed in this batch: 14111151-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111151
Project: WPX Juhan 14-26 Backgrounds 11.20.14

QC BATCH REPORT

Batch ID: **R153228** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R153228** Units: **% of sample** Analysis Date: **11/24/2014 04:45 PM**
Client ID: Run ID: **MOIST_141124B** SeqNo: **3053295** 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-R153228** Units: **% of sample** Analysis Date: **11/24/2014 04:45 PM**
Client ID: Run ID: **MOIST_141124B** SeqNo: **3053293** 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: **14111154-05B DUP** Units: **% of sample** Analysis Date: **11/24/2014 04:45 PM**
Client ID: Run ID: **MOIST_141124B** SeqNo: **3053274** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.65	0.050	0	0	0	0-0	8.49	1.87	20	

DUP Sample ID: **14111175-01A DUP** Units: **% of sample** Analysis Date: **11/24/2014 04:45 PM**
Client ID: Run ID: **MOIST_141124B** SeqNo: **3053283** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	20.55	0.050	0	0	0	0-0	20.53	0.0974	20	

The following samples were analyzed in this batch:

14111151-01A	14111151-02A	14111151-03A

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

Form 202r8

		SAMPLER	Mike Lobato	DATE	11/20/14	WORKORDER #	1411151
						PAGE	1 of 1
PROJECT NAME	Juhan 14-26 Backgrounds	SITE ID	Juhan 14-26	TURNAROUND	Standard 5 DAY	DISPOSAL	(By Lab) or Return to Client
PROJECT No.		EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	HRL Compliance Solutions, Inc.	BILL TO COMPANY	WPX Energy				
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney				
ADDRESS	2385 F ½ Road	ADDRESS	1058 Co. Rd. 215				
CITY / STATE / ZIP	Grand Junction, CO 81505	CITY / STATE / ZIP	Parachute, CO 81635				
PHONE	970-243-3271	PHONE	970-683-2295				
FAX	970-243-3280	FAX					
E-MAIL	mmumby@hrlcomp.com; mlobato@hrlcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	[illegible]	SAR, EC, PH
1	Juhan 14-26-BK-1	S	11/20/14	11:55	2	8		X	X
2	Juhan 14-26-BK-2	S	11/20/14	12:00	1	8		X	
3	Juhan 14-26-BK-3	S	11/20/14	12:05	1	8		X	

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

For metals or anions, please detail analytes below.

Comments:

3.4°C

QC PACKAGE (check below)	
X	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[signature]	Mike Lobato	11/20/14	1423
RECEIVED BY	[signature]	MM	11/20/14	1425
RELINQUISHED BY	[signature]	MM	11-20	1500
RECEIVED BY	[signature]	Diane F. Sh[illegible]	11/21/14	1000
RELINQUISHED BY				

From: (818) 398-6070
Nick Martinez
ALS Environmental
127 E. 1st Street

PARACHUTE, CO 81635

Origin ID: RILA

Ship Date: 20NOV14
ActWgt: 75.0 LB
CAD: 7284940/INET3550

Dims: 14 X 26 X 15 IN

Delivery Address Bar Code

Ref # 112014-1
Invoice #
PO # Parachute
Dept #

BILL SENDER

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

HOLLAND, MI 49424

1 of 2

TRK# 7719 4112 7110

0201

FRI - 21 NOV 10:30A
PRIORITY OVERNIGHT

MASTER

XX HLMA

49424
MI-US
GRR

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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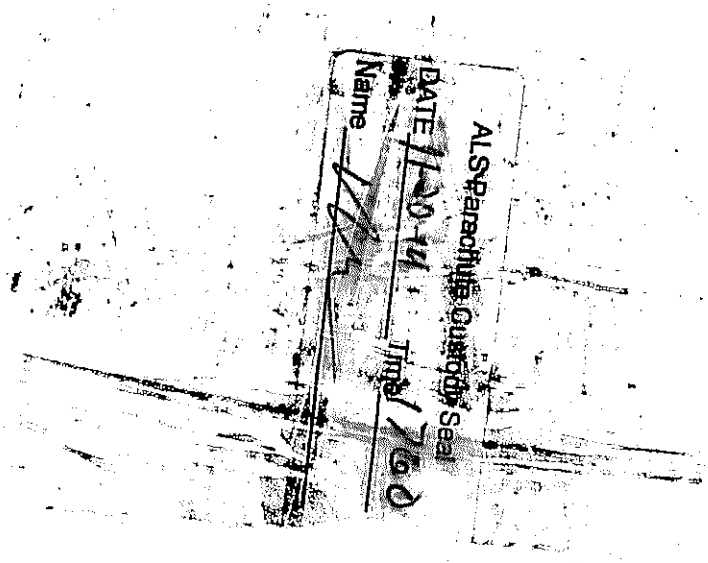

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **21-Nov-14 10:00**

Work Order: **14111151** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 21-Nov-14 (Date) Reviewed by: Ann Preston (eSignature) 21-Nov-14 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/21/2014 1:43:29 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: